UNIVERSITY OF DERBY

Advanced Clinical Practice Education: designing an academic model to support the reality of practice: A Case Study.

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# Abstract.

## Aim.

There is a considerable amount of evidence within the literature relating to advanced clinical practice in nursing, its impact on service provision, challenges to role identity and the introduction of advanced practice roles into clinical environments. However, there is little evidence in relation to curriculum design to support such development. This study aims to develop an understanding of the educational and clinical needs of nurses in their professional development towards advanced nursing practice and utilises educational theory and proposed models to offer insight into advanced practice programme design.

## Methodology.

This is a qualitative case study using multiple embedded participants of student advanced nurse practitioners and clinical medical supervisors. The data is captured through semi-structured individual interviews and respondents’ diaries and analysed using thematic analysis.

## Findings.

Four key themes emerged from the data analysis: Confirmation, Clinical, Academia/Education and Reflection. Analysis of the emerging themes and educational theory has allowed for the proposal of suggested models that reflect the reality of practice and will support future advanced clinical practice curriculum design.

## Conclusion.

Education providers should collaborate with health care providers and create curricula that are focused upon the clinical need of student advanced practitioners. Learning within clinical practice, should be supported by an educational programme content that relates to the reality of practice, keeping the learning in context and applicable.

## Key Terms. Advanced practice, advanced nursing practice, advanced nurse practitioner, curriculum design, professional development.

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# CHAPER 1 – Introduction.

## 1.1 The aim of the study.

Advanced clinical practice remains a controversial and complicated topic, which has faced several challenges during its development and received much attention. As nursing remains the largest professional group within the NHS and engages in nearly all of the health care services provided (Health Education England, HEE, 2014), it is not surprising that the number of advanced nurse practitioners, nurse specialists and extended role practice nurses within primary care rose by 8% between 2017 and 2018 to 3,305 full time equivalent practitioners (Buchan *et al.,* 2019). Several challenges that have been identified are captured in the words of Barton and Allan (2015) when they refer to the evolution of advanced nursing practice. The authors suggest that the development of advanced nurse practice has been a complex journey, fraught with misinterpretation, lack of clarity and challenged by those who believe that nursing is undermined by the advent of advanced nurse practice. This is not a new concept and is referred to by Bryant-Lukosius *et al.* in 2004, who identified that if advanced nurse practice is left ill-defined and poorly supported, then the fundamental aspects of nursing care and practice may become less evident and open up to a risk of medicalisation of the profession. Questions such as these have come to light in recent deliberations related to these concerns and are captured by Clare Nadaf (2018) when she writes on the outcome of a debate held on the subject. The debate raised the overarching question, ‘at what point does advance clinical practice stop being nursing?’, the outcome being that there is no clear answer. Nadaf (2018) makes clear that in the debate nurses held true to their historical nursing values and felt that this underpinned advanced practice, but that transparency around the role, continued professional development and funding, required further attention.

Despite these concerns there remains a determination for advanced clinical practice to continue its development within nursing. Advanced clinical practice is defined as a level of practice that requires the ability to demonstrate clinical competence and a high level of autonomy when dealing with complex situations involving patients and their families. This level of practice is supported by clinical capabilities identified under the four pillars of advanced practice, which relate to clinical practice, education, leadership and management and research (Health Education England (HEE) 2017). McGee in 2009 advocated that the skills of the advanced practitioner complimented medicine, helping to provide a wider and more accessible service provision to patients. However, Barton and Allan (2015) also refer to the scrutiny that the advanced nurse practitioner role has endured, not only from the nursing profession itself, but from medicine and other professions allied to health. With issues surrounding clarity of professional roles and titles, mistrust from nursing, medicine and allied health professionals and challenges to funding and ambiguity around how to progress, designing an educational curriculum to support such development is perplexing.

Addressing this question of curriculum design and how it may support advanced nurse practitioners, is therefore the focus of this study. The study aims to develop an understanding of the educational and clinical needs of nurses in their professional development towards advanced nursing practice. To achieve this goal, the experience of student advanced nurse practitioners currently undertaking a master’s programme in advanced practice will be explored. In addition, and to develop a comprehensive view, the experience of medical supervisors supporting the clinical development of the same student advanced nurse practitioners, will also be sought. The findings will help propose models to support curriculum design in the education of student advanced nurse practitioners, which to date appears to have been left without comprehensive guidance and will therefore raise discussion and detailed debate around the subject. Although this study has a focus upon understanding the educational and clinical needs of nurses, who remain one of the largest professional groups, in their professional development towards advanced nursing practice, it is hoped that the findings of this study will be of interest and support to other health care professional trainees.

## 1.2 The historical development of advanced nursing practice - lessons from history.

The development of advanced nursing practice, in many ways, owes its conception to service need. An early historical account of its expansion in the Canadian outback is referred to by Kaasalainen *et al.* (2010), who suggests this was a consequence of shortages in experienced health care staff following the First and Second World Wars. In addition, there are accounts related to the emergence of the nurse anaesthetist. This initiative stemmed from the arrival of anaesthetics as branch of medicine in the United States of America (USA) which, according to MacDonald, Herbert and Thibeault(2006) attracted little interest from doctors resulting in a high mortality rate in patients. Nurses were subsequently encouraged to develop skills in this role, with the first clinical programme of study in the USA being in 1954 (MacDonald, Herbert and Thibeault, 2006).

Within the United Kingdom (UK), utilising the nursing profession to meet the growing need for timely access to health care became a focus of attention. Stilwell *et al.* (1987) considered the impact of a specially trained nurse, within an inner-city practice, on patient consultations and outcomes. The nurse in question had received specialist training in physical examination skills and management of acute and chronic conditions frequently seen in general practice. The authors concluded that nurses could practice greater autonomy and therefore provide a wider clinical service to patients (Stilwell *et al*., 1987).

The expansion of nursing skills and knowledge was also assisted by the introduction of the Scope of Practice (United Kingdom Central Council (UKCC), 1992), which allowed nursing to increase and develop skills often identified as those procedures traditionally performed by the medical staff. This enabled care to be delivered swiftly to an increasing number of patients with growing complex needs. In 1994, the then governing body of nursing, the United Kingdom Central Council (UKCC), felt recognition of the terms used to describe such enhanced skills needed acknowledging and therefore they produced the Standards for Specialist Education and Practice (UKCC, 1994), which defined higher level practice. However, within this document it was clearly stipulated that the standards did not relate to advanced practice. This was criticised by Castledine in 2002, who pointed out that advanced practice was indeed higher-level practice and should be recognised as such.

Additional challenges in the form of the European Working Time Directives, which restricted junior doctors’ hours (DH, 2002), helped accelerate the pace of growth in advanced clinical practice and with the advent of the NHS Plan in 2000, promises were made to strengthen the regulation of the clinical profession, create greater opportunities to extend roles for nurses and foster multi-professional working in order to meet the needs of the population. With the advent of non-medical prescribing, in the form of independent and supplementary prescribing, via the Standards of Proficiency for Nurse and Midwife Prescribers (NMC, 2006) an additional drive towards autonomous practice was further achieved.

The need for advanced clinical practitioners to support service provision, only enhanced the debate on what exactly they did and who could award themselves the title. Within the literature there was an outcry for clarity and an agreed definition of the role and level of advanced practice. It became apparent that many advanced nursing roles carried the title of advanced practitioner, but their clinical application was very different. This led to confusion and professional debate, both nationally and internationally, as to what skills and knowledge were required by an advanced nurse practitioner (Ormond-Walshe and Newman, 2001; Daly and Carnwell, 2003; Bryant-Lukosius *et al.* 2004; Sibbald *et al.* 2006). Indeed, further disagreement lay in what distinction existed between the knowledge, skills and role of the Clinical Nurse Specialist and the Advanced Nurse Practitioner or Nurse Practitioner. Daly and Cranwell (2003) argue that the Clinical Nurse Specialist often worked closely with the medical specialist, caring for patients whose diagnosis was already known. In contrast the Nurse Practitioner or Advanced Nurse Practitioner saw and reviewed patients with undiagnosed conditions, which would potentially require the development of wider knowledge and skills (Daly and Cranwell, 2003).

In 2005 the Nursing and Midwifery Council (NMC) began a process of consultation in relation to developing a framework for post registration nursing and a proposed registration of advanced level practice. Although this was a step forward in recognising advanced clinical practice, the result was further confusion over agreed titles where ‘advanced’ could be adopted (Rushforth cited in Barton and Allan, 2010). A report by the Council for Health Regulatory Excellence (CHRE, 2009) stipulated that after examining whether advanced practice was indeed a regulatory issue, they concluded that additional statutory regulation was not necessary and in 2011 the Enabling Excellence command paper allowed recognition of self-regulation. These two papers resulted in a lack of authoritative direction on the subject and consequently confusion over advanced level practice. However, in 2010 the Department of Health produced a position statement on advanced nursing practice helping to inform and structure advanced level practice, which is discussed in section 1.3.

It is clear to see how historically, confusion has arisen in relation to the level of academic attainment, skills acquisition, knowledge and role identity that universally defines advanced nursing practice. Therefore, developing a curriculum to meet all requirements without clarity or agreement is a challenging prospect.

## 1.3 Current developments in advanced practice.

More recently, attempts have been made to offer greater clarity and structure to the development of advanced clinical practice. The Advanced Nursing Practice Toolkit, initially launched by the Scottish Government in 2008, updated in 2017 and expanded to phase two in 2021, helped unite existing work on the subject and encouraged consistency through which policy could evolve and help benchmark and guide advanced practice. With the addition of the Welsh Framework for Advanced Practice (NLIAH, 2010), updated by the Advanced Nursing Practice Framework (2016), the Northern Ireland Advanced Nursing Practice Framework (2016) and English Advanced Level Nursing document (DH,2010) and Multi-professional Framework (HEE, 2017) governments followed suit, in order that an agreed definition and framework could be developed. However, advanced practice policy does vary between Wales, Scotland, Northern Ireland and England. The Council of Deans produced an overview of advanced practice policy within the United Kingdom in 2018 (Council of Deans, 2018) and although all relate to the four pillars of advanced clinical practice, these being clinical, education, research and leadership, there are some differences. Wales has a framework for advanced nursing, midwifery and allied health professionals, with advanced practice achievement being demonstrated by local employer and academic means, with a full Master’s degree being required. Academic support is provided by some universities within England, and with changes being implemented within England that relate to procurement and the introduction of the national academy, this may create issues related to commissioning for those ACPs residing in Wales. Scotland devised the advanced practice toolkit in 2008 (Scottish Government, 2008). In Scotland, the education must be at Master’s level, but does not have to be a Master’s programme, with funding being made available for diplomas. Scotland has a national approach to policy supporting advanced clinical practice, with post graduate education that spans across registration to specialist, advanced and consultancy level. Three multi-disciplinary advanced practice academies are being set up in Scotland to deliver on such requirements. Northern Ireland published its advanced practice framework in 2014, which requires education via a Master’s programme for nursing, and a Masters in advancing practice for those professionals registered with the HCPC (Council of Deans, 2018). Within England the Multi-professional framework for advanced practice, published by HEE in 2017, provides the shared understanding around advanced clinical practice and is the policy referred to within this study (HEE, 2017).

For advanced nurse practitioners, the Code of Professional Practice, as stipulated by the Nursing and Midwifery Council (NMC, 2018), the governing body of nursing within the UK, makes reference to prescribing practice (NMC, 2018, section 18.1-18.5) and also indemnity (NMC 2018, section 12.1). This ‘Code’ relates to the professional standards of practice and behaviour for nurses, midwives and nurse associates, by which all registered nurses are professionally governed. Revalidation, which was introduced by the NMC and updated in 2019, requires each registered nurse to practice in relation to the Code and provide evidence of the ability to practice safely and effectively, through a series of approved documentation for revalidation.

The NMC were not the only nursing organisation to adapt to the requirements of advanced clinical practice. The Royal College of Nursing (RCN) Standards of Advanced Level Nursing Practice, the most recent version being in 2018, offers a clinical and professional resource to guide nurses on the requirements for advanced practice. This, along with the opportunity to credential one’s achievements relating to advanced clinical practice with the RCN, necessitated evidence of working at an advanced level. The requirements for such recognition include provision of a job specification, representation of the four pillars of advanced practice, successful experience at Master’s level, (often via a university listed as an RCN accredited programme), independent prescribing and evidence of autonomous practice (RCN, 2018). The RCN stipulated that for those nurses who did not possess a Master’s degree, but who could evidence a level of autonomous practice that included critical thinking, high levels of decision making and problem solving, value-based care and evidence of improving practice, the mapping to Masters level descriptors could be made to facilitate credentialing (RCN, 2018). However, these arrangements were intended for a limited time only (2017-2023), as the RCN indicated that the credentialing criteria would require evidence of a relevant Master’s degree. These requirements for nurses practising at an advanced level, aimed to recognise the background and legitimacy of their practice, which included their experience, competence and academic qualifications (RCN, 2018).

Recognising advanced clinical practice and defining its purpose and level of ability is reflected in the competencies and capabilities indicated by the Department of Health (DH) and Health Education England (HEE). In 2010, the Department of Health produced a position statement on advanced level nursing. This document aimed to define the nature of advanced practice and set out a benchmark of twenty-nine elements divided under four themes or the ‘four pillars’ as they are known (DH, 2010). The themes were identified as clinical/direct practice, leadership and collaborative practice, improving quality and developing practice and developing self and others (DH, 2010).

Building on this guidance, Health Education England devised a Multi-professional framework for advanced practice within England (HEE, 2017). This document aimed to clearly define the capabilities of advanced practice, through a slightly adapted four pillars and recognise their application to clinical practice and the education, supervision and development required for the preparation of the advanced level practitioner. Acknowledgement of specialist capabilities related to specific advanced practice roles also emerged. Competencies related to emergency medicine, produced by the Royal College of Emergency Medicine (RCEM, 2015) version one, with version two emerging in 2017 and competencies related to primary care, produced by the Royal College of General Practitioners (RCGP, 2015) were developed. In addition, the Faculty of Intensive Care Medicine (FICM, 2015) developed a Curriculum for Training for Advanced Critical Care Practitioners to address the specific needs associated with advanced level practice in intensive care units. Further core capabilities have since been developed into a framework, which focuses upon the requirements of advanced clinical practice within the community and reflects the application of advanced practice within primary care (HEE, 2020).

Work by HEE also involved the ongoing development of structured learning units, known as credentials, to address workforce progression and enhance the capabilities of advanced practitioners. These open-source documents specify the learning outcomes that the credential should address, which includes advanced practice within specific areas e.g., mental health. It is intended that the credentials will be adopted into Master’s programmes and delivered by education institutions. The development of further credentials is anticipated in line with service need, which will be reviewed using endorsement criteria provided by Health Education England’s Centre for Advancing Practice. Once agreed, the credential specifications will be made available for use by education providers. Further work aimed at shaping credential implementation is ongoing to help assure workforce development needs are being met, fit for purpose and responsive (HEE, 2022). Clinical supervision to support the development of such clinical knowledge and skill has also been addressed by HEE in the work developed by Deborah Harding (Harding, 2019). A multi-professional approach to clinical supervision and a structured method to its implementation has been outlined in the Workforce Supervision for Advanced Clinical Practice document (HEE, 2020).

The four pillars of advanced practice have also been incorporated within the Advanced Clinical Practice Apprenticeship Degree, which was first considered in 2017 and acknowledged in 2018 through the Institute for Apprenticeships (IFA, 2018). This required Higher Education Institutions (HEI’s) to collaborate with the employer to develop a programme of study that would facilitate development of the knowledge, skills and behaviours required for advanced clinical practice, with the addition of supervision within the workplace. However, the debate remained and arguments over advanced practice titles, their application and being defined as a role or level of practice, continued.

Nadaf (2018), reflecting on a debate relating to advanced nursing practice, spoke of the lack of standardisation, with the skills and scope lacking clarity and with no clear protection of the title. Furthermore, the International Council of Nurses (ICN) produced ‘Guidelines on Advanced Practice Nursing’ (ICN, 2020) to help clarify the issue. These guidelines helped define the terms associated with advanced nursing practice and identified what the title meant and what was expected of someone who held that title. The document makes clear that the Clinical Nurse Specialist (CNS) is a specialist within the field, dealing with patients with a known diagnosis. The Advanced Practice Nurse (APN) or Nurse Practitioner (NP), has a broad knowledge which allows them to make the diagnosis themselves, within their area of competence (ICN, 2020). The ICN (2020) suggest that educational curricula should be developed to meet the specific needs of the CNS and that a generalist programme be established to meet the needs of the ANP/NP (ICN, 2020).

Whilst specific standards have provided guidance and clarity on the required competencies and capabilities of advanced nurse and advanced clinical practitioner practice (DH, 2010; HEE, 2017), it is clear that curriculum design has received less attention. It is true to say that the ICN (2020) refers to developing abilities in clinical examination skills, clinical reasoning, diagnostics and prescribing practice. It is also noted that the HEE (2017) Multi-professional framework for advanced clinical practice in England devotes two pages to the subject of education and development, but only in relation to competence, capability, academic level of study and development routes for evidencing capability relating to the four pillars (HEE, 2017). Exactly how this is transferred into educational curricula is less clear and therefore the focus of this study.

## 1.4 Addressing the aim of the study.

Considering the discussion in sections 1 to 1.3, designing curricula to meet all requirements of advanced nursing practice and those practitioners from other professions is clearly complex. However, the capabilities and competencies required to practice at an advanced level are distinctly identified (DH, 2010; HEE, 2017; ICN, 2020). In addition, reference is made to the need for clinical examination skills, clinical reasoning, prescribing skills and the ability to diagnose and move towards autonomous practice (RCN, 2018). Furthermore, the NMC refer to the Standards for Specialist Education and Practice, which are specifically related to Specialist Practitioner Qualifications and Specialist Community Public Health Nursing, being originally produced in 1994 and subsequently amended seven times, the last being in March 2016 relating to revalidation requirements. Nevertheless, there is little if any mention of utilising educational theories to design such curricula and supporting any suggested educational pathway with models that have been devised with educational consideration at the forefront.

This study aims to seek answers to that question, utilising the experience of student advanced nurse practitioners to do so through considering:

*What impact has a Master’s curriculum, designed to support student advanced nurse practitioners educational and clinical needs, had on their professional development?*

By investigating this question and examining existing literature on the subject of advanced nurse/clinical practitioner education, the development of educational models supported by educational theory will be proposed.

## 1.5 Conclusion.

In my role as a senior lecturer and programme lead for a master’s programme in advanced clinical practice, I am required to design a curriculum that is responsive to the clinical and professional needs of advanced practitioners. I am also required to design a curriculum that meets the national and international requirements of advanced nurse/clinical practice and recognises the professional responsibilities associated with this level of ability.

Advanced clinical practice continues to be challenged and debated by both medicine and those allied to medicine. It is clear that advanced practice sits alongside medicine, supporting in the provision of high-class care to patients. Indeed, the Health Care Professions Council (HCPC) in June 2020, suggested the need for a policy project aimed at exploring the regulatory changes that may be needed relating to advanced clinical practice, to protect both the registrant and patient. The outcome of this project identified the need for greater definition relating to advanced clinical practice, although the evidence for increased regulation was surprisingly not indicated (HCPC, 2021). In addition, the Clinical Pharmacists in General Practice scheme, makes clear the benefit provided within primary care to patients by the pharmacists (NHS, 2019). This point was acknowledged by the British Medical Association (BMA) in May 2020, who identified that having a clinical pharmacist within GP practices helped reduce waiting times, enhanced effectiveness and eased workloads. Speaking of advanced nurse practitioners in their qualitative study, Glendinning and Walker (2019) refer to the consistency provided to patient care through the provision of teamwork, leadership and assistance with workload, concluding that the advanced nurse practitioner was a great asset and helped support healthcare transformation.

It is clear there is a uniqueness and a place for advanced clinical practice, that should not be viewed as in competition with medicine, but as another route for service users seeking access to health care and health education. I consider advanced nurse/clinical practice as a new tier of heath care professional, working collaboratively for the good of the patient as defined on page one. As an educationalist, it appears that educational curricula must support all these requirements, irrespective of their delivery being by a specialist or generalist advanced nurse/clinical practitioner. This study will explore the evidence related to advanced practice curricula design, which is presented in Chapter Two via a literature review related to the subject. This will not only help examine the question but will also provide comparisons to my own study as detailed in Chapter Three and Four and assist in reflection upon the findings of my study described in Chapter Five and Six, allowing for conclusions to be drawn and recommendations made on the subject in Chapter Seven.

# CHAPTER 2 - Literature Review.

## 2.1 Introduction.

The focus of this chapter will be to review and consider the body of knowledge associated with designing academic curricula that supports advanced nursing practice. This focus arises from a need to develop a curriculum that is structured to not only consider competence and capability (RCEM, 2015; RCGP, 2015; HEE, 2017; IFA, 2018), but which reflects the pedagogical stance that will support development in advanced clinical practice. Therefore, the question I pose is:

*What impact does a Master’s curriculum, designed to support student advanced nurse practitioner’s education and clinical needs, have on their professional development?*

The literature review will therefore focus upon the historical and current development of advanced nurse practitioners and the impact of educational curricula that supports and shapes their professional progress. The review will help with the identification of studies that have already been undertaken or issues that may still need addressing. It will help establish the context of the issue(s), provide an appreciation of the subject under scrutiny and relate emerging theory to both current and historical (Hart, 1998) advanced nursing practice and education. The purpose of this process is to utilise the literature to help establish and explore the research question posed within this study. To do this effectively, Aveyard (2019) suggests that although there are a number of ways to approach a literature review, the overall aim is to identify, synthesise and create a summary of relevant literature reflecting one’s own research question. In addition, in Chapter Three I indicate that case study is the chosen approach for this study. Yin (2009) writes extensively on the subject of case study research and is explicit that the first undertaking is a thorough literature review from which to pose and develop the research question. This is important, so that my work does not exist in isolation, but adds to the existing body of knowledge, as well as creating a deeper understanding of the question I pose.

To ensure all relevant literature is considered, a structure to the literature review is an important factor. Aveyard (2019) discusses the need for transparency in relation to this structure, in order that the detail of this process is clear. For this reason, this chapter will also take account of the process acknowledged by Moher *et al.* (2009) which adopts the ‘PRISMA’ checklist and flow diagram, specifying a procedure for systematic literature reviews and meta-analysis. PRISMA refers to the Preferred Reporting Items of Systematic Reviews and Meta-Analysis (Moher *et al.,* 2009), which facilitates a transparent and documented process to a literature review. Adopting such a strategy will therefore offer a clear and comprehensive review and interpretation of the literature associated with the research question, which will inform and support subsequent chapters and the final conclusions and recommendations made by this study.

## 2.2 The Research question - its development.

The question arose from my role as a senior lecturer leading on a master’s in advanced practice at a university within the East Midlands. As previously identified, there have been national publications from the Department of Health (2010) and Health Education England (HEE, 2017), which have defined the level of practice and the competencies and capabilities that are associated with advanced clinical practice. These have been clearly outlined under the heading of the four pillars of advanced practice, which are described as, clinical, leadership/management, education and research (DH, 2010; HEE ,2017). These competencies and capabilities are clear and outline the key skills and knowledge that a professional practising at an advanced level should be able to demonstrate and be measured against. This information is available to all educators and higher educational institutes (HEI’s) and much is made of their existence, so that it is acknowledged by those HEI’s designing curricula, that the competencies and capabilities (DH, 2010; HEE, 2017) must be mapped to the indicative content and assessment strategy of the educational programme. The question I pose is how this is best achieved. Considering the impact of a current academic programme designed to support the development of advanced clinical practice, may help explore this question and is therefore the focus of this study. However, current literature on the subject of advanced clinical practice, education and curriculum design, can help offer further insight and clarification on the matter.

## 2.3 Undertaking a literature review - a ‘structured approach’.

What became clear after reading Aveyard’s (2019) work, was that a detailed high-quality literature review frequently requires the input of a team of experienced researchers to appraise and often re-analyse the results of a study. When time, experience and resources to undertake such a task are not available, Aveyard suggests that a structured approach to the literature searching, analysis and re-analysis, can still be possible (Aveyard, 2019). This is encouraging, as with any doctoral study one is alone when seeking to answer a question and exploring the literature and evidence that surrounds it. Given such circumstances, the starting point for a literature review is suggested as the question to be addressed, followed by a detail of the methods utilised to address the question, which include search engines and methods of appraisal, documentation of the results emerging from that critical appraisal and finally recommendations following the outcome of such an approach (Aveyard,2019).

When considering the information on undertaking a literature review, it became evident that the search must be inclusive meeting the inclusion and exclusion criteria (Aveyard, Payne and Preston, 2016). However, Fink (2005) makes clear that the literature review is also required to be reproducible in its methodology. This allows for the body of work, created by practitioners, researchers and academics and relating to the topic under scrutiny, to be methodically synthesised and evaluated (Fink, 2005). One commonality noted when considering how to perform a literature review, was the almost step by step approach to the process, which ranged from between seven identified stages (Hart, 1998; Fink, 2005) to twelve (Aveyard, Payne and Preston, 2016). Nevertheless, the common starting point for this structured approach always appeared to be a focus upon the question to be answered. Considering the question provides the foundation for developing the next stages of the process, which all the authors (Hart, 1998; Fink, 2005; Aveyard, Payne and Preston, 2016) proposed were a form of the following phases:

* The identification of key terms.
* Agreeing inclusion and exclusion criteria.
* Listing the data bases.
* Recording the searches being undertaken.
* Providing methodological screening of the data.
* Analysing, synthesising, and presenting the results.
* Reporting on the review.

Therefore, applying this process to the literature review, helped support and develop my research question and identified what was understood or remained unknown (Fink, 2005; Aveyard, Payne and Preston,2016). Hart (1998) offers further clarification and links the importance of the literature review in supporting a doctoral thesis. The point Hart (1998) makes is that in order for me to offer a new contribution to knowledge, demonstrate originality, the depth of understanding and defend the reasons for why and how my study was undertaken, an in-depth literature review is essential. To do this Hart (1998) suggests the adoption of an open attitude and a willingness to be explorative and tenacious in seeking out relevant literature and evidence.

Essentially, this chapter requires an organised, exhaustive and structured approach to the literature review, to support the subsequent discussions and findings, whilst allowing for the approach to be transparent and reproducible. The following will therefore offer subheadings related to the staged approach undertaken and identification of key topics and themes. This, as Braun and Clarke (2013) propose, results in a broad yet structured literature review, refined for the consideration of relevant studies.

## 2.4 Undertaking a literature review - identifying key terms.

The advent of technology has enhanced the electronic search for data. Although several publications (DH, 2010; HEE, 2017) are readily associated with the national development of advanced nurse practice, a structured literature review offered a focused search that reflected the research question related to this study. Seeking advice from a librarian skilled in searching data bases for health-related literature, is invaluable to any researcher. Support via a comprehensive session on using an advanced search approach and working through supporting documentation (Aveyard, Payne and Preston,2016; Boland, 2019) helped reinforce the purpose of the literature review and was undertaken by myself as part of this study.

Wellington *et al.* (2005) makes clear the advantages of undertaking a literature review, by suggesting it helps define the field of study by exploring work produced by other authors that have a similar focus. It helps clarify what research is already available on the subject and therefore what models, concepts and ideas have already been applied. It also helps identify the research methods and approaches undertaken by others and importantly, if there are any gaps in the existing literature (Wellington *et al.,* 2005). However, to identify such studies effectively requires their location from within the databases and this necessitates the use of key terms.

Aveyard, Payne and Preston(2016) refer to the use of tools to help support the identification of key terms. When considering such tools, it is important to acknowledge a cautionary note raised by Cronin, Ryan and Coughlan(2008) regarding the spelling and meaning of words. The authors identify that key words may be misinterpreted by spelling, for example American spellings or some words may have similar meanings, which might create a broader search. To consider similar meanings a thesaurus was applied to the identified key terms, which then helped provide the identification of words with similar meanings. Reflecting upon the research question itself helped identify what ‘terms’ had appeared, and which best expressed the concept of the question (Boland, 2019). Although the research question had been initially developed to guide this qualitative studies design as indicated by Braun and Clarke (2013), following the supportive literature review (Aveyard, Payne and Preston, 2016) there appeared no need to change the question and so the following remained.

*‘What impact does a Master’s curriculum, designed to support student advanced nurse practitioners educational and clinical needs, have on their professional development?’*

Above and indicated in blue text are those words which helped capture the concept of my research question. Although reading national policies and documents related to the focus of the question aided with the identification of key words (Aveyard, Payne and Preston, 2016), it became apparent that tools were available that would offer a greater structure to the process.

Methley *et al.* (2014) undertook a comparative study to consider the specificity and sensitivity of these specified search tools. The tools tested by the authors were noted as:

**‘PICO’**- Population Intervention Comparison Outcome, which also included ‘PICOS’, which is the same as PICO, but with the ‘S’ standing for ‘Study Design’, which includes randomised control trials and cohort studies or with the addition of a ‘T’ to indicate Time, which represents how long the intervention outcomes will be looked for.

**‘SPIDER’**- which stands for Sample, Phenomenology Interest, Design, Evaluation and Research type, SPIDER, being suggested as having a focus on qualitative studies.

The outcome of this comparison study was that PICO be recommended across a variety of data bases as a search tool. Methley *et al.* (2014) defended their selection suggesting SPIDER required further adjustment and would be of greater use once indexing of the data bases improved for qualitative studies. Although the use of SPIDER would appear suited to the literature review for this qualitative study, Cooke *et al.* (2012) agrees with Methley *et al.* (2014) that SPIDER would be a tool selected or qualitative evidence, but that it needs greater sophistication to locate studies within the data bases.

Given these noted limitations, PICO was selected as the tool to help identify the key terms for this study. According to Aveyard, Payne and Preston(2016), PICO can be adopted for either a quantitative or qualitative study. Therefore, I have utilised the example given by the authors of the PICO tool for a qualitative approach to develop the key terms from my research question. ‘Population’ (P) refers to advanced nurse practitioners, the ‘Issue’ (I) professional development and the ‘Context’ (C) curricula which are utilised, rather than the more quantitative terms ‘intervention’ and ’control’ with Outcome (O) indicated as impact. The term ‘issue’ replaces ‘intervention’ and ‘context’ replaces ‘control’, which Fineout-Overholt and Johnston (2005) suggest reflects terms for answering a qualitative question. In doing so, I am mindful of a discussion published by Ford and Melnyk (2019) on the use of the tool PICOT in the process of applying evidence-based practice. The author’s suggested that care must be taken to apply the right words into the tool to develop an accurate search of the data base to answer the question (Ford and Melnyk, 2019). Considering all views (Fineout-Overholt and Johnston, 2005; Aveyard, Payne and Preston, 2016; Ford and Melnyk, 2019) and adopting suggestions by Walker (2013) I have created the following table (Table. 1) to determine the key words, synonyms, and the use of Boolean operators associated to my research question.

|  |  |  |  |
| --- | --- | --- | --- |
| **Key words** | **‘AND’** | **‘AND’** | **‘OR’** |
| **Advanced Nurse Practitioners** | Advanced practitioner | Advanced Clinical Practitioner | Specialist nurse Health worker |
| **Professional Development** | Progression | Transition | Competence  Preparedness  Autonomy |
| **Curricula** | Education | Programme | Syllabus  Course  Framework |
| **Impact** | Affect | Influence | Impression |

Table 1. Key words and the application of the Boolean Operators (adapted from Walker, 2013).

The alternative terms (synonyms) are derived from using a thesaurus and searching for other words that have the same meaning to the PICO term. Google searches and academic papers, which have already been sourced on the subject of advanced practice and education, were also utilised to extend the list of alternative terms (Aveyard, Payne and Preston,2016).

## 2.5 The use of Boolean operators.

The use of Boolean operators, AND/OR, which allows combinations of words to be explored for occurrence (Swanborn, 2010) helped search the key terms. When the key terms (Table. 1.) are placed into a search, the use of ‘AND’ searches for both terms that are used, which has the capacity to limit the search. Whereas using the word ‘OR’ allows both key terms to be searched, therefore broadening the exploration (Aveyard, Payne and Preston, 2016). One important point that Aveyard, Payne and Preston(2016) refer to when using the Boolean operators, is the avoidance of using ‘AND’ too frequently, as this will dramatically limit the search. Taking these points into account, Table 1 identifies where AND/OR were used and in what combination. Both Aveyard, Payne and Preston(2016) and Walker (2013) support the need for clarity in relation to the structure of the search and how the use of Boolean, PICO terms and synonyms have been combined during the search process. In addition, the authors propose other search parameters that may help explore the data bases. The use of truncation allows for the ending of a word to be almost assumed and helps broaden the search. This must be undertaken with caution, as missing words can fool the search and create unnecessary ‘hits’, for this reason truncation was not utilised. An example of this, given by Aveyard, Payne and Preston *(*2016 pg.75), is car\* when searching for literature associated to care.

In general, when conducting the literature review for this study, Wellington *et al.* (2005) suggests a good point, indicating that the process should not be seen as linear, with a beginning and an end, rather it is more cyclic in nature, allowing for the research question to be revisited and re-clarified, which facilitates a deeper appreciation of what literature is required. This approach has been adopted for the literature review within this study by undertaking a preliminary search and re-visiting the searches over time. This accumulation of papers has allowed one to check the alternative terms with the titles of similar studies, which assisted in extending the data base search.

## 2.6 Electronic database - searching frequently used databases.

There are several data bases that can be used, however choosing those that relate to the study question are advised (Aveyard, Payne and Preston,2016). This study relates to health care professionals, namely nurses and considers their education towards advanced practice. For this reason, the following data bases were selected as the search engines.

* PubMed- this data base is the United States of America National Library of Medicine.
* MEDLINE- both PubMed and MEDLINE have an extensive source of medical, nursing, and allied health professional literature.
* EMBASE- which includes all of MEDLINE, plus its own data bases.
* CINAHL- The Cumulative Index to Nursing and Allied Health Literature, this has both a North American and European focus.
* British Educational Index- educational articles and papers.
* ERIC- this is an international database containing articles and papers on education.
* ProQuest- offers several education products.
* SCOPUS- the new Elsevier data base.

The above data bases are suggested by authors Bowers, Hoose and Owens (2011) and Aveyard, Payne and Preston(2016), although they also suggest the importance of networking with colleagues who are familiar with the subject. This has been achieved through conferences and association with organisations that are at the forefront of advanced clinical practice development within the United Kingdom, including the Association of Advanced Practice Educators (AAPE) and the Council of Deans for Health. The outcome of such a literature search and association with organisations aimed at progressing advanced practice, is as Wellington *et al.* (2005) identify, to determine what is already known, to ascertain landmark studies, to locate primary studies and to recognise studies that utilise methodologies similar to my own study.

## 2.7 Inclusion and exclusion criteria.

The inclusion criteria applied to the literature review for this study, identifies studies written in the English language and studies conducted within and outside of the United Kingdom (UK), which include Europe, United States of America, Canada and Australia. The reason for these geographical parameters is to capture the work created regarding the concept of advanced practice, rather than from just a UK focus, which as Barton and Allan (2015) suggest relates to job roles, job specifications, titles and speciality. In terms of a timeframe, a parameter was set on literature published between the years 2010 and 2020. This timeframe was determined by using a rather pragmatic approach and considering key publications and milestones that appeared influential within the UK in relation to advanced clinical practice (Bettany-Saltikov, 2012; Aveyard, Payne and Preston, 2016). Although there is the historical development of advanced practice both nationally and internationally, which is discussed in Chapter One, the Department of Health (DH) set out to define the nature of advanced practice in 2010. This date of 2010 determined the start date of the original literature review, which was fully completed in 2020. The original literature review spanned from 2010 to 2016 and included the DH 2010 document, which was the current guidance for England at that time, and five studies all of which contributed to the design of this study. A later literature search undertaken following the data analysis in 2020, revealed four further studies that helped influence the interpretation and findings of this study. Therefore, all nine papers form the basis of this literature review chapter (Appendix 1).

The DH 2010 document was superseded in 2017 by the multi-professional framework for advanced clinical practice in England (HEE, 2017), which offered a more specific and detailed indication of the education and development of advanced practitioners (HEE, 2017) and which influenced this study further and is discussed in Chapter 6.

Advanced clinical practice is a broad term, and the focus of this study is upon the educational impact on the clinical and professional development of student advanced nurse practitioners. The key terms within Table 1, section 2.4, reflects this and therefore forms additional inclusion and exclusion criteria when applying the parameters for the electronic data base search. Aveyard, Payne and Preston (2016) make clear the importance of defining the inclusion and exclusion criteria, so that it is transparent what steps have been implemented during the search. In consideration of this, the search incorporated both qualitative and quantitative studies to capture those reflecting qualitative studies like my own and those that may have adopted a more quantitative approach. However, as Aveyard, Payne and Preston (2016) point out, empirical data is by no means the only literature to consider. Therefore, papers that identify the full range of research hierarchy, research methods, underlying theories and concepts were also included and appear in the nine selected studies which are identified in Appendix 1. This approach also helped address the paucity of literature available on the subject of advanced clinical practice education. Additional inclusion criteria included articles produced in the English language and those available in full text, so that the context of the study could be discerned. A table to summarise the inclusion and exclusion criteria is indicated in Table 2 below.

|  |  |
| --- | --- |
| Inclusion criteria | Exclusion criteria |
| Inside and outside the United Kingdom (UK), Europe, United States of America, Canada, Australia |  |
| English language | Not written in English |
| Full text | No full text available |
| 2010-2020 | Before 2010 and after 2020 |
| Key PICO terms | Non identified PICO terms |
| Qualitative and quantitative, including studies that reflect the full range of research hierarchy |  |

Table 2. A table to summarise the Inclusion and Exclusion criteria

The decision to include both qualitative and quantitative studies, resulted from undertaking an initial general search relating to advanced clinical practice education. A number of the sources obtained were qualitative in nature and methodological design, adopting focus groups and semi-structured interviews to determine the student’s experience of the educational and clinical preparation for advanced practice (Brown and Draye, 2003; Illingworth *et al.* 2013; Bench *et al.* 2018). However, other related work utilised systematic reviews of the literature associated with educational preparation of the advanced practice role or cross-sectional surveys and statistical methods to identify educational preparedness for advanced clinical practice (Pulcini *et al.* 2010; Dover *et al.* 2019; Mackavey and Cron, 2019).

These initial searchers were supplementary to the structured approach identified in Table. 1. yet offered a useful insight into the focus of this study. According to Aveyard, Payne and Preston *(*2016) this type of searching can certainly be complimentary. A helpful way to consider this ‘complimentary’ form of search is proposed by Bates (1989). The author outlines a model for searching that compliments a structured approach, but that allows for a ‘meander’ around the subject matter, in order to take note of information that helps inform and enhance the research question. This method of examining the literature is referred to by the authors as ‘Berrypicking’ (Bates 1989)*.* Berrypicking is an unstructured approach to searching the literature, whereby a useful and applicable source may lead to other interesting and influential literature, but the process may not be linear or staged (Aveyard, Payne and Preston, 2016). Barroso *et al.* (2003) points out that browsing is also unstructured but can certainly be a helpful start in supporting a researcher thinking about their study question. I found this to be so and initially adopted this strategy to help explore my question. Browsing included searching for authors who had published studies related to my research question, identifying chapters within books related to the focus of my study and searching the reference lists of papers already sourced. This form of searching is mentioned by Aveyard, Payne and Preston *(*2016), but only as an additional source or preliminary browse and therefore is a supplement to the main search described in section 2.4 to 2.7.

## 2.8 Results from the literature search strategy.

Using the key search terms as indicated in Table 1. a catalogue of the papers retrieved following the literature search are tabled in Table. 3. This table is devised using an adaptation of the PRISMA diagram (Moher *et al.,* 2009), which is discussed in section 2.1. The purpose of this table is to offer clarity regarding the quantity of references located utilising the key terms (Table. 1) and their applicability to the research question (Aveyard, Payne and Preston, 2016).

|  |  |  |
| --- | --- | --- |
| **IDENTIFICATION** | **n=( )** | **COMMENTS** |
| Number identified by database search | 38 | * n= 86,680 at initial search using PICO terms and date range of 2010-2020. * Search refined to include full text, peer reviewed journals, English language, Boolean operators as per Table 1 Chapter 2, inclusion of abstracts and thesis n= 27,119 * **Boolean operator** ‘AND’. * Checked for articles using ‘AND’ n=268 * Duplication noted and the appearance of **non**-educational/curriculum design articles using ‘OR’ * Checked for duplication and applicability to research question **n=38** |
| 4Number Identified from other sources | 65 | * **Using browsing and ‘Berrypicking’** methods (see Chapter 2 section 2.6) * Inclusion of **‘Grey’** literature **n=65** |
| **SCREENING** |  |  |
| Number identified after duplications | 26 | * **Total** post duplication check and applicability (total of data base search, with Boolean operators and ‘Berrypicking’) **n=103** * **Re-checked** for relevance and applicability to the research question and focus upon education and curriculum design in advanced practice education **n=26** |
| Number excluded | 77 | * Exclusion as relevance to research question minimal **n=77** |
| **ELIGIBILITY** |  |  |
| Number identified, Full Text | 9 | * **Full text** articles included **n= 26** * Studies **included** for **critical appraisal that addressed the research question** **n= 9** |
| Number identified, Full Text-excluded | 17 | * Full text articles **excluded** due to minimal relevance to the **research question/methodological quality** **n= 17** |
| **INCLUDED** |  |  |
| Studies Included | 9 | * **Studies included** **n= 9** |

Table 3: A table to identify the results of the data base search following PICO key terms (Fig. 1.) and use of Boolean operators (based on the PRISMA flow diagram, Moher *et* *al.* (2009).

Utilising the PICO key terms (Table. 1), the search revealed 86,680 ‘hits. This volume of articles was created using Boolean ‘OR’, which helped broaden the search to prevent the possibility of ‘Berrypicking’ (Aveyard, 2019). The outcome and results of the data base search based on the PRISMA flow diagram is identified in Table 3. Not surprisingly, the key terms that produced the most pertinent articles were Advanced Practice, Education and Programme. Once the key terms had been exhausted using ‘OR’ as indicated in Table. 1. ‘AND’ replaced ‘OR’ to focus the search further (see section 2.4-2.5). Utilising the PRISMA model shown in Table. 3. helped detail the literature review as follows.

Identification.

Following the use of Boolean term ‘AND’, the number of associated articles fell to n=268. A review of the 268 for duplication and applicability resulted in n=38 remaining articles, which when combined with articles sourced via ‘browsing’, n=65 (section 2.7), equated to a total of n=103 articles.

Screening.

These 103 articles required further consideration via the ‘screening’ process as identified by Mother *et al.* (2009). Of the 103 articles, those with relevance and applicability to the research question n=26, were adopted for further appraisal, the remaining =77 was excluded due to their title or abstract.

Eligibility.

The full text articles remaining, which equated to n=26, were then appraised further for appropriately addressing the research question. The remaining eligible papers following this process resulted in n= 9, with 17 being excluded due to lack of relevance to the research question or inclusion criteria.

Included.

Using the PICO terms, Boolean operators, synonyms and inclusion and exclusion criteria, which is indicated in section 2.7, nine papers were identified that reflected the research question. These papers specifically considered and had links with curriculum design associated to advanced practice education.

However, from the initial search, which offered a general overview of advanced nursing practice development, and which is referred to in section 2.7 and explored in Chapter One, two other papers were revealed, one by Woods (1997) and one by Furlong and Smith (2005). Whilst these were certainly of interest, they fell outside the inclusion criteria for the date range, though the relevance of these papers’ forms part of the discussion in Chapter Six. Although they were somewhat dated, they are supported by more recent studies originating from the search criteria described in this chapter and while still pertinent, some key points raised have been superseded by current thinking related to advanced practice education.

The nine identified papers that reflect the research question are explored and summarised in the table in Appendix 1. Although nine papers appear a small number, this is in keeping with comments made within one of the studies by Dover *et al.* (2019, pp. 3,216). The authors refer to there being, “*a paucity of original research articles with a robust methodology regarding educational preparation of ACP’s”*. Following the literature review I must agree with Dover *et al.* (2019), as their finding is also mine when exploring the question of curriculum design in the support of advanced clinical practice education.

## 2.9 Summary and Critique of the identified studies, n=9.

This section and the table identified in Appendix 1, is a summary and critique of the nine selected studies. The design of the table is based on examples by Aveyard, Payne and Preston (2016) and Bridges (2015), who discuss the approach to summarising the literature selected post the search and appraisal process (Appendix 1, the highlighted areas are discussed in this section and section 2.10). The author, year, country of origin and a description of the study aim, and methodology are provided within the table, along with the findings and an evaluation of the selected papers. These papers are again utilised in Chapters Five and Six to support the data analysis and discussion, but in Chapter Two are identified and critiqued following the structured literature review. Further detail related to each of the papers is considered below and by reviewing the nine selected papers the research question posed within this study remained unchanged.

Bergstrom and Lindh (2018) considered how a master’s programme prepared advanced nurse practitioners for the diversity of knowledge required for advanced clinical practice. This qualitative Swedish study utilised semi-structured interviews and thematic analysis to help answer the question. The researchers identified that advanced nurse practitioners required expert knowledge and the ability to make decisions related to complex problems. They concluded that the clinical judgement, critical theory, leadership, clinical enquiry and research skills that were required created a challenge to curriculum design, to meet the diversity of the audience. This point is also raised by Illingworth *et al.* (2013) when they refer to designing a curriculum to address specific advanced clinical development, but this is complicated by a point made by Bench *et al.* (2018), that a curriculum should be flexible and recognise multi-professional frameworks that support professional development. This reflects the need for further exploration and development of educational models that would support complex curriculum design which is the purpose behind this study.

Dover *et al.* (2019), a British study, undertook a rapid review of the literature regarding the educational preparedness of advanced clinical practitioners using a mixed methods approach. The authors reflected upon the transitional phase of the newly qualified advanced practitioner and noted little preparedness for this, suggesting a period of consolidation supported by clinical supervision was required. Crathern *et al.* (2016) make a similar point and highlight the need for a nurtured progression, using a collaborative approach to support and sustain clinical ability. Dover *et al.* (2019) also noted consolidation, mentoring, the theory practice gap and competency, as key points for development, but concluded that further research was required to create an effective model of education to support preparedness for the role, which again reiterates the focus of my study.

Illingworth *et al.* (2013) undertook a qualitative study using focus groups and semi-structured interviews to elicit the experiences of students undertaking a master’s degree, which supported their development of advanced clinical practice. The focus of the student’s development was on primary care and their experiences were noted by the researchers as varied and complex. The authors identified that the learning was not linear and spoke of the students needing to re-engage with learning, re-create a sense of self and re-create their roles. The students spoke of the development of examination skills becoming almost second place to the ability to think critically. The authors concluded that further research was required to develop curricula that would address such challenges. Within this study there is certainly a focus on clinical development of the student advanced nurse practitioner participants, the support to achieve this and the ability to be able to critically reason the decisions made, which are sought by them to confirm progression. However, developing an educational curriculum to support these findings remains the subject of further research, which is echoed by many of the identified authors (Morgan, Barry and Barnes, 2012; Bergstrom and Lindh, 2018; Dover *et al.,* 2019) and only enhances the potential contribution of my own study.

Bench *et al.* (2018), using a qualitative approach via four focus groups and an interview, considered students’ views and perceptions of the current educational needs and potential barriers they may have experienced, as they undertook a master’s degree in advanced practice. Three themes were identified by the authors, the recognition of advanced practice, the education provided for the development of advanced practitioners and programme delivery. The findings suggested that future programme design should be flexible to reflect national and international frameworks and offer support for all professional groups. The authors spoke of the need for collaborative working between clinical partners and universities, to ensure support was provided within clinical practice and that regulation of advanced clinical practice be debated, which would influence future educational programme developments. Crathern *et al.* (2016) make a similar point advising collaboration between service providers and higher education institutions to help enhance critical thinking and clinical ability. Although Bench *et al.* (2018) make reference to the education provided for the development of advanced clinical practitioners, there is no clear strategy or models from which to design such a curriculum. This omission supports the focus of my study and is addressed by the findings which are discussed in Chapter Six.

Crathern *et al.* (2016) offered an account relating to the development of a master’s programme aimed at supporting neonatal advanced nurse practitioners. From the outset there was collaboration with clinical partners in devising the programme. The programme appeared to relate to the clinical environment using clinical scenarios and reflection upon these was utilised to support critical thinking. Within this study there is a noted link to clinical collaboration, clinical ability, the development of critical thinking and general preparedness as suggested by Dover *et al.* (2019), Illingworth *et al.* (2013 and Bench *et al.* (2018). This paper reiterates the issue of a programme being associated to the clinical and theoretical needs of the advanced clinical practitioner. However, although collaboration with clinical partners helped devise a programme related to clinical activity, the educational theory behind why this should be considered or models to depict curricula structure were not apparent.

Gaskill and Beaton (2010) discussed the impact of work based learning and inter-professional practice. They created a partnership between the university and the Trust and examined feedback from students, employers and staff, as well as module and programme feedback. By using learning facilitators and action learning sets, a structured way to reflect upon learning and skill development within the workplace was developed, which helped support the students with development in critical thinking, clinical judgement and decision-making skills. The authors acknowledged that challenges existed in students not always attending the action learning sets, but overall, the approach helped combine clinical competency, role enhancement and an understanding of professional and regulatory issues pertaining to advanced clinical practice. This point is supported by findings noted within the other studies which identify the development of clinical ability through a collaboration and partnership between academia and the clinical environment (Morgan, Barry and Barnes, 2012; Crathern *et al.,* 2016; Bench *et al.,* 2018; Dover *et al,.*2019). Reflection is an important factor and one that is identified within my study in Chapter Six. What is left unanswered by Gaskell and Beaton (2010), is why reflection may prove helpful, when it should be considered and how could one model its application into a curriculum? My study addresses these issues and offers educational theory and modelling to support the challenges of advanced clinical practice education, which are discussed in detail in Chapter Six.

Morgan, Barry and Barnes (2012) explored the challenges posed by limited resources, relationships with medical staff, role definition and supervision, in securing a successful transition for neonatal advanced nurse practitioners. The authors identified that devising a curriculum to meet the diversity of knowledge and skills required was problematic and that no single programme could meet this demand, which is not unlike the findings of Bergstrom and Lindh (2018). Morgan, Barry and Barnes (2012) suggested that a curriculum must consider the complex interaction of clinical, professional, student, faculty and educational factors. The study that I have conducted does just that, it explores the diverse requirements of advanced nurse practitioners and proposes that a generalist approach to curriculum design should be adopted, which is discussed in depth in Chapter Six.

Schwendumann *et al.* (2019) produced a report outlining the development of a Master’s programme designed to support student advanced nurse practitioners in Switzerland. The authors acknowledged that changes to the curriculum were required to develop advanced practitioners that could meet the health care requirements of the population. The article discussed the mapping of the programme to the World Health Organisation (WHO) competencies and promoted the importance of clinical and research options within the curriculum, including the need for increased technology. What did not appear within this article was a discussion around the theory and clinical interaction that is evident in many of the other identified papers (Gaskill and Beaton, 2010; Craythren *et al.,* 2016; Bench *et al.,* 2018). This paper appeared to focus on reacting to policy and service need, which is also apparent within the U.K. and discussed in Chapter One.

Fitzgerald *et al.* (2013) aimed to present a sustainable model for flexible learning that supported specialist nurses to develop clinical health care skills in the workplace. This qualitative study adopted action research and used focus groups, interviews and reflective journals to provide the data for analysis. The authors concluded that there was a need to create constructive alignment within curriculum design and provide a flexible approach to the learning via a variety of learning modes. This was the only paper to particularly mention an educational approach to curriculum design in the form of constructive alignment and again supports the focus of my study in establishing greater understanding regarding educational theories that may enhance advanced clinical practice curriculum design.

When reviewing all nine papers, which offer a national and international view of advanced clinical practice education, there are certainly commonalities. These commonalities require further identification and exploration to understand their significance, if any, and this is provided by further analysis of the literature which is seen in Appendix 1 (highlighted) and outlined in section 2.10.

## 2.10 Analysis of the identified literature - emerging themes.

Within Appendix 1, the nine studies are identified, and data extraction and critical appraisal of the literature (Aveyard, Payne and Preston, 2016) has been undertaken, which is shown in the ‘findings’ and ‘study evaluation’ columns and discussed in section 2.9. The highlighted text identifies the related themes that appear within the studies, which can be extrapolated to suggest a commonality between them. The identified studies are qualitative or reflective in nature and as such not all have sufficient detail to their data that would allow further interpretation or direct comparison. In such circumstances Aveyard, Payne and Preston(2016) identifies the analytical process of meta-synthesis as a helpful structured way to undertake the appraisal of qualitative research, although this approach has not been adopted for the nine identified papers related to this study. The authors suggest that this process allows for the interpretation of the research findings, to seek out key points that would not be as obvious if the evidence were viewed independently. This method is supported by the findings of Walsh and Downe (2005) who argue that appraising inter-related studies may help identify nuances that lie within the text. I have adopted a form of this concept when considering the nine studies listed in Appendix 1 and appraised each one to identify emerging related commonalities and potential emerging themes from within the studies. These themes, using Walsh and Downe (2005) suggestion, are highlighted within the table in Appendix 1 and which I categorise as follows.

‘*Collaborative working’* - the requirement of good working relationships between stakeholders and HEIs to develop flexible and clinically appropriate curricula identified in Crathern *et al.* (2016), Bench *et al.* (2018), Gaskill and Beaton (2010).

‘*Role identity / Transition’* - the recognition of boundaries that may impact on professional identities or transition and the challenges of transitioning from expert to novice and back again, identified in Bergstrom and Lindh (2018), Illingworth *et al.* (2013), Dover *et al.* (2019), Morgan, Barry and Barns (2012).

‘*Curriculum design’* - the need for diversity, and clinical and academic fusion, supported through expansive sideways and vertical learning, which can be enhanced using OSCEs, simulation and other educational interventions, identified in Crathern *et al.* (2016), Bergstrom and Lindh (2018), Bench *et al.* (2018), Dover *et al.* (2019), Illingworth *et al.* (2013), Fitzgerald *et al.* (2013), Gaskill and Beaton (2010).

*‘Clinical supervision’* - the development of clinical reasoning via keeping the learning real and applicable and consolidating complexity through supported work-based learning and ‘thinking theory to practice’ identified in Crathern *et al.* (2016), Illingworth *et al.* (2013), Dover *et al.* (2019), Fitzgerald *et al.* (2013), Morgan and Barry (2012), Gaskill and Beaton (2010).

These emerging themes have a relationship to the findings of my own study, which are discussed further in Chapter Six. They also relate to the development of the semi-structured interview schedule seen in Appendix 2. The interview questions seek to explore the student advanced nurse practitioners experience of a Master’s curriculum deigned to support their educational and clinical development to advanced level practice, what was important to them, the challenges they faced and what support might be required. I also find support for these themes in a chapter written by Gaskell, Beaton and Neville, cited within ‘Advanced Nurse Practice: changing healthcare in a changing world (cited in Barton and Allan, 2015 pp. 50-86). Gaskell, Beaton and Neville*,* refer to the need for collaboration between HEIs and service providers, which they propose will in turn support the devolvement of advanced practitioners fit for practice. These authors and others also make reference to the triangulation of assessment via OSCEs, Viva’s, examinations and presentations and speak of the value of clinical logs, portfolios, work-based learning and the use of case-based discussions (Gaskell, Beaton and Neville*,* cited in Barton and Allan, 2015).

There are, however, additional issues that emerge from within the nine identified studies that add depth to the emerging themes indicated above. These additional points relate to complexity, clinical reasoning, transitioning and creating a curriculum that is clinically appropriate (Gaskill and Beaton, 2010; Morgan, Barry and Barnes, 2012; Illingworth *et al.,* 2013; Crathern *et al.,* 2016; Bergestrom and Lindh, 2018). Health Education England (2017) define the role and level of complexity required for advanced practice development, which is in accordance with the Quality Assurance Agency (QAA, 2015) characteristics statement of a master’s degree. Both these documents align key requirements of the student advanced nurse practitioner that include, a deep understanding of their field and awareness of the current issues that dominate that subject matter, with the ability to critically appraise, undertake and apply relevant research and adopt innovative solutions to complex problems, whilst utilising professional and ethical practice. These characteristics and academic level of study recognise the requirements of advanced practice and are also echoed by the International Council of Nurses (ICN, 2020). However, challenges exist in adopting such academic obligations worldwide and it is acknowledged by the ICN (2020) and McGee (2009), that this is indeed a struggle for some countries to meet these criteria.

Although characteristics, position statements and capabilities of advanced clinical practice are identified nationally and internationally, literature which focuses upon advanced practice education and the associated curriculum design appears in limited supply. There are, however, studies that indirectly support the considered development of advanced clinical practice and these appear throughout this study and help support the overall debate on the subject. Following the structured literature review related to the research question in this study, there is a paucity of relevant articles, therefore supporting the assertion that further research is indeed required.

## 2.11 Conclusion.

The structured literature review has identified nine key articles that relate directly to the development of curricula that supports advanced nurse practitioner academic and clinical practice. This is a limited number and although the articles refer to curricula development in collaboration with stakeholders and the recognition of national and international competency and capability related to such a level of practice, there appears no clear identification or suggested model for exactly how the curricula should be constructed. Indeed, Dover *et al.* (2019 pg. 3216) point out that,

“*research into the most effective models of educational preparedness for ACP’s is required to ensure that future curricula adequately prepare people for the role they are expected to fulfil in clinical practice”.*

The literature review supports the findings of Dover *et al.* (2019) and the need for a focus upon adequate clinical preparation and support for advanced clinical practice development. This study, with the assistance of the literature, will seek the experience of student advanced nurse practitioners, who have journeyed through a Master’s programme designed to support their educational, professional and clinical development. The findings of this study will reinforce the proposal of educational models, that are supported by educational theory, and which will provide guidance for curriculum design and raise academic, professional and clinical debate on the subject of advanced clinical practice education.

# CHAPTER 3 - Methodology

## 3.1 Introduction.

Within this chapter the underpinning philosophies that support educational research will be considered. The chapter will explore the structure by which education and its impact can be investigated and offer a credible argument for the chosen research approach of a case study for this research study. The considerations of this qualitative study in relation to the selection of the sample, the ethical sensitivities and respect for the participants’ wellbeing and voice, as well as the required permission and the consequences of any outcome will be discussed. Ultimately qualitative researchers seek to tell a story and as Denzin and Lincoln (2003) point out, piece together data that is captured by methods best suited to answering the research question. This chapter will detail the methodology and offer a level of transparency and honesty in its potential to make a positive impact and address the focus of this study.

## 3.2. Addressing the question.

As a lecturer in post graduate nurse education, in order for my professional practice to develop to the benefit of others and for me to be accountable for that development to the wider society which I serve, there must be an element of personal reflection and questioning (Schӧn 1983). By adopting this approach Denscombe (2003) suggests that questions around curriculum design aimed at supporting learning are often generated and require an answer.

My question arises from a need to develop an understanding of the educational and clinical requirements of nurses in their professional development towards advanced nurse practice. As a nurse myself, preparing such students educationally for the rigours of advanced clinical practice as society becomes more complex and demanding, is challenging (Hartas 2010). When considering a methodological approach, Kuckartz (2014) indicates that we should ask ourselves, what is the specific issue that we want to explore, what is it we are hoping to achieve by researching this issue and what type of investigative measures should be adopted to explore the topic? I am interested in ascertaining what experiences and thoughts advanced nurse practitioner students and the clinical medical supervisors who support them have, regarding the development of advanced nurse practitioners, what ideas they have formed about their educational and clinical experience and the actual words they use to describe it. Therefore, the question I pose is:

*What impact does a master’s curriculum, designed to support student advanced nurse practitioners educational and clinical needs, have on their professional development?*

However, the intention is not to seek what is wrong with current educational curriculum, but rather as Silverman (2001) proposes, to consider what might be going on, in order to identify modifications that can help improve professional development in the field of advanced nurse practice. In his discussion regarding qualitative research and its specific contribution to the social world, Silverman (2001) suggests that what concerns researchers and participants is often found close at hand and therefore can be overlooked. I had noted that students engaging with this curriculum appeared to sometimes falter, lose confidence in their ability and struggle to meet the clinical and academic demands in equal measure. I was therefore intrigued to explore the world of the student advanced nurse practitioner and their experiences and not to overlook any potential known or unknown challenges and complexities that may have impacted on their educational and clinical development.

However, this observation reflects my view of the student’s social world, which may be very different to that of the students based upon my norms and beliefs (Holloway, 2005). Therefore, this study sought to unpick the complexity of this social phenomena and to view the social reality as constructed through the experiences of the student advanced nurse practitioners, giving a different perspective (Holloway, 2005). This is the basis of social constructivism, where individual learning occurs due to interactions experienced within a particular social context (Thomas *et al.,* 2014). Within this study the individuals are the student advanced nurse practitioners and their medical supervisors, the world is the clinical, academic and professional development of the student advanced nurse practitioners that the curriculum aims to support. The social constructivist approach provides the researcher with an opportunity to build a socially constructed landscape that reflects the individual interpretation of the participants lived realities (Boyland, 2019). What Boyland (2019) suggests is that sharing lived experiences, encourages people to tell their story as they see it and in their own terms, from day to day, month to month and beyond. Each individual will construct their reality differently based on how they acquire, select, interpret and learn from that lived experience (Boyland, 2019). How this lived experience is constructed is discussed by Thomas *et al.,* (2014) who indicates that learning is assembled in three phases. Firstly, the individual’s interaction with the environment provides an opportunity for them to make sense of that exposure. Secondly, there is an uncomfortable period as the individual holds two conflicting thoughts at the same time, existing knowledge and a new experience. This drives existing beliefs to be challenged and modified, thereby easing the conflict that existed. Finally, the environment itself provides development for that knowledge, as other individuals may test or provide alternative information that may help shape and develop learning and progression. It is the nuances of this individual experience of learning that I wish to investigate and the potential influences that may impact upon it.

This point is graphically represented and discussed further in Chapter 6 and relates to the ART model (Chapter 6, section 6.7) and its implications for a structured approach to the education and development of student advanced nurse practitioners. Adopting an overall social constructivist approach for this study helps create meaning through understanding the social, cultural and historical aspects that impact on the human experiences (Kim, 2014) as perceived by the students advanced nurse practitioners and their medical supervisors. As a qualitative research study, a social constructivism approach will allow interpretive and naturalistic practices to be adopted that will help make sense of or interpret phenomenon in the way the participants in the study see them (Kim, 2014). Therefore, this educational research study is approached from a genuine interest (Burton and Barlett, 2009) in seeking to maximise the educational and clinical support these students receive. I believe that their experiences and those of their medical supervisors, will help inform and support innovative thinking around curriculum design and capture the complexity of clinical need, education and learning (Hartas, 2010).

Seeking out and exploring the experiences of student advanced nurse practitioners requires a qualitative lens, a viewpoint that a researcher can utilise to help establish the validity of a study (Creswell and Miller, 2000). Creswell and Miller (2000) suggest that qualitative researchers use a lens established through the participation, review and conduct of people. People offer one way to determine how they perceive the realities of the world in which they live and how they create meaning from such interaction (Flick, 2007). To understand how the process of ‘meaning’ is constructed, research needs to re-construct how people, institutions and communications impact on the development of reality as seen by the individual (Flick, 2007). According to Flick (2007), these assumptions relate to the epistemological circumstance for using data collection tools like interviews. In this study interviews and diaries are adopted to elicit how individuals build their understanding of their world experiences, which is undertaken using this interactive process.

Therefore, the epistemological approach for this study, is through the capture of language via the interviews and diaries, which as Denzin and Lincoln (2003) suggest offers a graphic or perceived depiction of an exterior reality. As such, knowledge is known through the subjective experiences of people (Creswell, 2018). The use of language as a means of exploring the experiences of student advanced nurse practitioners and their supervisors requires a qualitative approach (see section 3.3). Exploring their thoughts, understanding and opinions in depth necessitates a holistic stance, one that preserves the complexity, unity and uniqueness of the social situation being studied (Punch, 2005). Thomas (2013) makes clear that the social world, especially when studying people, can be unpredictable and capturing this fluidity requires thought. For this reason, the ontological approach by which the student advanced nurse practitioners and their medical supervisors’ experiences can be viewed, requires a methodology that captures data from different sources. Therefore, considering how best to address the studies question and the identified epistemological and ontological views will, as Thomas (2013) implies, determine the research approach and chosen methodology.

## 3.3 Choice of Paradigm - a qualitative study.

Miles and Huberman (1994) and Miles, Huberman and Saldona (2014) refer to qualitative research as a reflective approach on everyday life, be that individuals, groups or communities. I refer to these authors within this chapter and Chapter Four, as their focus surrounds educational reform, interest in epistemology and the association between adults understanding, their use of knowledge, respect for their participation and the complexity of social interaction, which are explored within this study. Qualitative researchers study phenomenon in their natural setting, seeking to understand and make sense of things and how others perceive such occurrences (Denzin and Lincoln, 2000). The qualitative approach aims to explore how ‘meaning’ occurs in individuals, believing that society itself and the general social process that exists in communities helps shape individuals (Nightingale and Cromby, 1999). However, the nuances associated to experience and emotion need to be considered from multiple perspectives, to capture the variance in our perception of the world. To help achieve this, qualitative researchers engage with a wide range of interpretive practices, to explore the phenomenon from various angles. The outcome of this approach according to Denzin and Lincoln (2000), is that each practice may offer a different view of the observed and for this reason it is not unusual to find more than one interpretive method adopted within a study.

Social enquiry can also be considered by measurement and quantification, indeed both Yin (2009) and Simons (2009) writing on the subject of case study research, which this study adopts (section 3.4), indicate this to be the case. However, as Thomas (2013) points out, a quantitative paradigm does not offer the subtleties of exploring how people think, make sense of and construct their world. Seeking those assumed subtleties requires an epistemological approach (discussed in section 3.2) that will explore personal interactions and enable investigation of the individual experiences of student and medical supervisor participants within this study. By adopting a qualitative approach, it is possible to seek out, interpret and understand aspects of their social world via the interactions of those individuals, using a series of determined interventions (Denzin and Lincoln, 2000; Arthur *et al*, 2012; Bryman, 2016). However, qualitative research is a broad term applied to a number of strategies (Punch, 2005) and so it is important to clearly identify the design of this study at the outset.

Within this study I am seeking the world as viewed by others who have encountered a similar experience in the form of an educational curriculum aimed at supporting the development of advanced nurse practitioners. To capture such information a number of qualitative approaches could have been adopted. However, which to choose is a challenge that qualitative researchers face, and which is captured in a paper by Creswell *et al.* (2007). In an attempt to offer detailed guidance, the authors identified five types of qualitative research designs, although they make clear there are many more, and created an overview of their characteristics so that their comparative differences could be discerned (Creswell *et al.* 2007). This provided a useful reference point from which to consider the chosen research approach for this study based on the research question.

One such approach considered was that of Grounded Theory, identified by Glaser and Strauss (1967). Grounded Theory creates data using an inductive method, without a predetermined question or literature review, allowing for a free and unbiased approach to the data collection process. Although this would certainly support the focus of this study, there are features that do not offer an emphasis on the question being asked. Grounded Theory, despite using an inductive approach to data generation, also adopts a deductive method early in the process (Punch, 2005). There is also the question that Grounded Theory was developed through sociology and therefore positions itself with sociological concerns, rather than psychological ones (Braun and Clarke, 2013). Miles and Huberman (1994) also point out that Grounded Theory has a rather ‘loose’ approach to data gathering, and whilst this is attractive to social researchers, caution is advised, as this approach does not structure the exploration of the subject which can result in no development of clear ideas or outcomes and no explicit focus for the study. For these reasons Grounded Theory was discounted for this study.

Phenomenology, another qualitative approach was also considered as its focus offers an opportunity to examine the lived experience of the participants. First identified by Edmund Husserl, a mathematician, the concept of phenomenology was in contrast to positivism as it sought phenomena as perceived by others (Neubauer, Witkop, Varpio, 2019). Denzin and Lincoln (2003) refer to phenomenological analysis as being concerned with how the everyday ‘life world’ is understood. The aim is how one comes to interpret one’s own and others action as meaningful via words and in what context those words are used, thus understanding social reality and everyday life through conversation (Denzin and Lincoln, 2003). Phenomenology would therefore seem an appropriate choice for this study, as I wished to explore the world of student advanced nurse practitioners and examine their experiences of a curriculum designed to support their education, clinical and professional development towards advanced level practice. However, there is disagreement as to what is investigated, is it a particular lived experience or the experience itself? (Quay, 2016).

Husserl, the founder of modern Phenomenology, wanted philosophy to be seen as rigorous as the sciences and therefore proposed a method for analysing phenomena (Giorgi, 2006). Husserl’s aim was to progress philosophical knowledge through the use of methodological procedure. What Husserl proposed was that a phenomenological approach requires the researcher to detach themselves from the data, a process referred to as transcendental subjectivity or ‘bracketing’. This requires the researcher to set aside their understanding, knowledge or assumptions related to the subject under investigation (Giorgi, 2006; Neubauer, Witkop, Varpio, 2019). What bracketing creates is a form of reduction, but in attempting this reduction it is suggested by Paley (1997) that the researcher is also removed from the social world and that the lived experience post reduction becomes unavailable for use. I felt this approach was not one I could adopt for this study, as discussed in section 3.17. As Martin Heidegger indicated when considering Husserl’s views, the researcher cannot ignore their own life experience and therefore ‘bracketing’ is not possible, a concept I agree with. It is therefore important to consider that reflection upon one’s own perceptions, experiences and life, forms part of the analysis process (Neubauer, Witkop, Varpio, 2019). This is an important difference between Husserl’s perception of Phenomenology and Heideggerian Phenomenology, as Henry, Chapman and Francis (2009) indicate. The authors highlight that Heideggerian Phenomenology includes both the researcher and the participants within the study, as the researcher’s knowledge allows them to be able to interpret the emerging data, constructing reality through the comprehension of being in the world. Considering the focus of this study, adopting a Heideggerian Phenomenological approach would appear ideal, but not necessarily so if we consider the work by John Creswell (2018) on Qualitative Inquiry and Research Design: choosing among the five approaches.

What Creswell (2013) suggests is that phenomenology usually utilises single or multiple interviews, which are collected from the participants. The researcher must take care to select participants who have all experienced the same phenomena, which depending on the topic can be difficult. Within this study all students had experienced the same curriculum and were at the same point in their journey through their academic and clinical development. Therefore, phenomenology would certainly be a qualitative approach that would fit well with this study. However, I wanted to investigate further and consider the thoughts of medical supervisors who had supported the students during their journey towards advanced level practice. As McGee (2009) identified, the skill of the advanced practitioner complements medicine by providing a wide ranging and accessible service to patients. Therefore, how did the curriculum stand up to supporting the development of such skills? Clinical support is important in such progression and the role of the clinical supervisor has since been advocated by HEE (2020) as an integral and essential part in the progression of advanced clinical practitioners’ skills and knowledge. As clinical supervisors, it could be argued that the doctors live outside the essence of the ‘lived’ phenomena of the curriculum and therefore do not entirely share the lived experience of the students. To this end, a broader qualitative approach would appear applicable, one that would not just investigate the shared experience of a group of individuals, understanding the essence of that experience and then describing it (Creswell, 2013), but one that would capture the knowledge of others who are involved and close to the phenomena, having some insight of it and thus being able to provide an alternative depth of understanding (Holloway and Wheeler, 2002; Yin, 2009; Silverman, 2011).

According to Creswell (2013) a case study approach can view an object of study as well as a product of enquiry. Typically, case study research is of the present, real life and in progress, capturing information that is not affected by time (Creswell, 2013). In education, case study is accepted widely as an approach to explore complex educational innovations in particular contexts, including educational and social phenomena in general (Simons, 2009; Merriam, 1988). Case study is an intensive description and analysis of a unit of social phenomena (Merriam, 2002) and as such, as Yin (2009) indicates, is helpful in examining contemporary events. In this study a bounded case study is utilised, examining one cohort and their clinical supervisors undertaking a curriculum designed to support the development of advanced practitioners. Case study has a unique strength in its ability to deal with a variety of evidence through the use of observation, interviews, journals and documents (Yin, 2009) and is a vehicle for in-depth depiction and investigation (Merriam, 2002). It is for these reasons that case study was chosen over phenomenology, to accommodate the views of the medical supervisor participants, who are not directly experiencing the same involvement in the curriculum as the students, but whose insight into the subject is valuable for its ability to provide further in-depth understanding.

The study question seeks to explore the impact of a curriculum upon student advanced nurse practitioners and the medical supervisors who support their clinical development. Flick (2009) is clear that the characteristics of a good qualitative research design include a clear research question and focus. This is provided in Chapters One and Two and as Miles and Huberman (1994) and Miles and Saldona (2014) indicate, begins to form sampling decisions and data gathering tools, which will be discussed in this chapter.

## 3.4 A Case Study - defining the methodological approach.

What case study offers is the opportunity to study something in detail, to drill down to the very core of its existence and explore its uniqueness. This sense of detailed scrutiny into the complexity of a chosen focus is echoed by Simons (2009) and Thomas (2016) in their books related to case study research. Both authors speak of case study being the required detailed and concentrated exploration of something, be it a single person, a group, an institution or a period in time. Case study is therefore considered as an individual entity (Thomas, 2016) that exits to regard a certain ‘thing’ and allows complex social situations to be determined (Yin, 2009). The very nature of this detailed and focused analysis of events, circumstances and very often people in daily life, lends itself well to educational research (Simons, 2009). However, authors expert in this approach (Stake, 1995; Yin, 2009; 2012; Simons, 2009; Thomas, 2011, 2016) are very clear that case study can take many forms and can be utilised in different ways. They point out that a case study can be singular, for example a single patient, or multiple where several patients from different hospitals form the case. One thing stipulated by them all is that the purpose of a case study is to examine a subject in detail and in order to do this in any great depth, the authors suggest (Stake, 1995; Yin, 2009, 2012; Simons, 2009; Thomas, 2011, 2016) viewing the case from many varied angles, so that an in-depth knowledge and understanding of the subject under scrutiny can be obtained. By adopting a case study approach for this study, the nuances, particulars and lived experiences of the student advanced nurse practitioners and their medical supervisors are explored in detail via this encapsulation, provided by the case itself Identification of the nested case study and its boundaries are summarised in section 3.5. This indicates that this is a qualitative, interpretive and instrumental case study, one that discovers the experiences of the participants, to help explore the research question, by making sense of and seeking to understand the world as they see it (Simons, 2009; Thomas, 2011).

What is important in adopting a qualitative case study approach for this research, is that the participant’s voice in its familiar state is heard and understood As Simons (2009) points out, this familiarity is therefore recognised and easily interpreted. Information surrounding the curriculum and external influences that may impact upon it, which are gathered at the point of exposure and in the life situation, through speaking with the participants and hearing their responses first-hand, creating a naturalistic approach to the case study (Miles and Huberman 1994; Creswell, 2013; Miles and Saldona, 2014). This familiarity and recognition will help ensure that the outcome of the study resonates with others. It will hopefully be identifiable to educators and students who are subjected to curriculum designed to support development of advanced nursing practice. Whilst all the named authors above write in detail about case study research, the case design for this study is heavily influenced by the work of Gary Thomas (2011, 2016). This author offers a very clear and methodical approach to the use of case study research. His work is structured and graphical, detailing the versatility of case studies, their purpose, the approach and the process. It is this detail and exploration of case study research offered by Thomas (2011, 2016), that was both helpful and thought-provoking when developing the methodology for this study.

## 3.5 The focus of the case study - defining the case and setting the boundaries.

As a case can be many things for example historical, singular or multiple, a case study requires definition and identity to create boundaries, so that it is clear what it is and what it is not (Stake, 1995; Yin, 2009, 2012; Simons, 2009; Thomas, 2016).This case study, comprising of a cohort of student advanced nurse practitioners in their final dissertation year and some of the medical supervisors who support them, serves as the functioning object of focus and therefore the identifiable case (Stake, 1995; Simons, 2009; Thomas, 2016).

As this cohort of students and their supervisors are known to me, their selection is seen as a local case study and as Thomas (2016) suggests, this means the case is drawn from my own experiences and local knowledge. This reflects my own interest and curiosity in relation to the educational journey of student advanced nurse practitioners and how this can be supported and is not an unusual way in generating and exploring a research question (Simons, 2009; Thomas, 2016). The individual experiences of the students and their supervisors offer the detail and complexities that as Simons (2009) suggests, provides insightful knowledge in relation to their own learning experience. They are, according to Simons, the key protagonists who engage with and react to educational programmes of study, which they then relate into practice. As such, they are the very people who consider, utilise and subsequently deliver care underpinned by education offered and designed by others. It is for this reason I seek their views, to enable me to see the educational curriculum from a different angle (Simons, 2009; Thomas, 2016). Seeking the individual experiences of participants may be suggestive of a multiple study, but in this case study it is not and the reason for this is as follows.

In some case studies this collective view or collective case study approach as Silverman (2013) refers to it, offers exploration of a number of small cases, so that a broader view of potential influences can be considered, be they social, professional or political, which may impact on the identified research. However, the term ‘collective’ can suggest multiple cases (Stake, 1995; Denzin and Lincoln, 200; Thomas, 2016), but there are different forms of ‘multiple’ and care must be taken when choosing which to select (Yin, 2009; Thomas, 2016). Multiple cases really seek to determine the differences between one case and another. There will, as Thomas (2016) suggests, be a connectivity between the cases in terms of the focus of the study, but it is the detailed analysis of the comparisons of the individual cases that is important in multiple case study (Thomas, 2016). What is pertinent about this case is that it is a collection of students and some of their medical supervisors, and their collective experiences that form the case itself. These students and supervisors are ‘units’ within the case, or as Yin (1995) refers to them ‘embedded’. Thomas (2016) uses the term ‘nested’ which describes the same concept, but whichever term is used, it should not be mistaken for a multiple case study. An embedded or otherwise referred to nested case study approach, allows the individual participants’ views and experiences to be contrasted as part of the case itself; they are in fact integral to the case and to the occurrences that may lie within it (Yin, 1995; Thomas, 2016), which is very different to a multiple case study. Therefore, when the individual participants respond to the complexities offered within this nested case study, the effects of this become the particular focus of the case itself (Stake, 2006; Thomas, 2016).

To summarise, this case study is the subject of local knowledge and interest and interpretive in approach, using a nested case study. The focus upon a particular cohort, undertaking a particular curriculum aimed at developing advanced level practice, reflects this local knowledge and interest and offers the opportunity to scrutinise in depth, particular phenomenon that exists within the case itself (Stake, 2006; Thomas, 2016). It is the detail and complexity offered by analysing the responses from participants within this case study (Simons, 2009) that has the potential to offer insightful, rich and illuminating material for dissemination and future study. It is an instrumental (Stake, 1995; Simons, 2009; Thomas, 2016) case study, serving as a tool to offer insight into the complexities of the educational needs that inform and impact on advanced clinical practice (Stake, 1995; Simons, 2009; Thomas, 2016).In summary the case is as follows.

* A cohort studying an MSc Advanced Practice curriculum
* Student Advanced Nurse Practitioners (n=9)
* Clinical Medical Supervisors (n=2)
* Local case (the researcher’s knowledge)
* Instrumental case (has purpose, to improve education)
* The Case Study (bounded as the cohort)
* Nested (the comparison of participants occurs within the case)
* Interpretive (exploring how the phenomena exists across the nested cases)
* The case study is qualitative (seeking the participants experiences)

The above summary offers a degree of context to how and why this case study has been developed. It is scrutiny of this case study, using qualitative methods, which will offer a unique insight of the curriculum and shed light on its impact and thus support the educational development of advanced clinical practice.

## 3.6 Selected methods for data gathering.

Focusing on the goal of the study helps provide the choice of data collection. Silverman (2001) identifies four major data gathering tools used by qualitative researchers, these being observation, analysing texts and documents, interviews and recording and transcribing. Simons (2009) agrees with Silverman (2001), noting that observation, interviewing and documentary analysis form three of some of the main methods used in qualitative case study research. Therefore, in relation to this case study, the data gathering tools selected are individual interviews for their ability to offer a personal and individual perspective of what the participant feels and has experienced (Simons, 2009; Thomas, 2011) and student diaries, which offers a supplementary catalogue of experiences, emotions, actions and feelings over a period of time, as opposed to a one-off interview (Thomas, 2011). Both data gathering tools are discussed in detail in sections 3.9 to 3.12. Although the use of a focus group was considered, they do not always support the depth of follow up on a particular conversation with an individual that an interview can offer (Braun and Clarke, 2013). There is also the issue of the dominant participant who overshadows all others, or the challenges of different voices trying to have their say, resulting in the point of the research potentially being lost (Simons, 2009).

From an epistemological perspective, Newby (2014) identifies that meaning extrapolated from relevant sources will help identify patterns and through inductive and deductive reasoning the emergence of new understanding (Thomas, 2013; Newby, 2014). By addressing the research question in this way and pursuing the experiences and opinions of the students and their supervisors, a plethora of unique insight, as experienced by them, will have the potential to widen debate and inform education and curriculum design in the field of advanced nursing practice. I therefore chose to conduct individual semi- structured interviews and use diaries, which are kept by the student advanced nurse practitioners and form part of their final year portfolio. These two became my data gathering tools. Both chosen approaches to data collection have a focus on the ‘word’, be it spoken or written and help capture the participant’s voice. Although use of the spoken or written word may appear an obvious choice, there is a need to be aware of the potential limits that using such data gathering tools may pose. Using a social constructivist approach, making sense of the world is created by both the researcher and participant, who experience multiple realities in a natural world (Denzin and Lincoln, 2003). What is suggested by Nightingale and Cromby (1999) is that language provides a source by which this can be achieved and so is an important factor. However, Nightingale and Cromby (1999) also make the case that language does not fully account for other important factors of human activity and life, which may impact on the individual’s ability to make sense of the world they inhabit. These other factors include government policies, life opportunities or constraints that will shape people’s experiences and the social situations that individuals will live through and adapt to. This is the realism and relativism debate.

By using reflexive questioning, I need to consider how my choice to focus upon words and their meaning may be influenced by my own beliefs, values and preferences (Simons, 2009). There needs to be an appreciation of the philosophical issues related to realism and relativism. Realism suggests that the world is built on fact or reality; ‘realism’, whereas ‘relativism’ is constructed from the various views of that reality as perceived by others (Nightingale and Cromby, 1999; Denzin and Lincoln, 2003). I am therefore mindful of the argument which suggests that whilst my view as an insider researcher, which is based on belief, experience and knowledge (Schӧn, 1983) can offer a unique insight, I must also consider that which lies outside my realisation, the existing world, that which some describe as a given, created by historical events, government directives, ethical constraints and the world as viewed by others (Nightingale and Cromby, 1999), that will impact on the respondents’ sense of the world. Therefore, an appreciation of these influences and the recognition of my positionality (see section 3.17) within this study and the alternative views held by the participants is needed to view the outcomes objectively.

In addition to these considerations when using the spoken word, the papers explored in the literature review in Chapter Two, helped support the selection of data collection tools. Summaries of these papers can be found in Chapter Two, section 2.9, but their focus on advanced nurse practitioner education and their chosen methods of data collection and analysis helped facilitate the decision making for this study. What none appeared to take full account of was the consideration of learning theories and approaches that may support curriculum design, or the impact of a curriculum designed to support advanced practice upon student advanced nurse practitioners. Therefore, this forms the basis for this study and by using a qualitative case study approach and detailed analysis of the experiences of student advanced nurse practitioners, using semi-structured interviews and diaries, some of this missing information can be explored.

## 3.7 Selecting the sample.

The study sample is drawn from student advanced nurse practitioners (ANP) undertaking an MSc Advanced Practice programme of study, who are in their final dissertation year, having completed a pathway of study as suggested in Figure 1.

**MODULE 5 DISSERTATION (reflective portfolio linked to the 4 pillars of advanced practice) 60 credits SAMPLE**

**MODULE 4**

**Research**

**20 credits**

**MODULE 3**

**NMP**

**40 credits**

**MODULE 2**

**Clinical**

**20 credits**

**20 cr**

20 cr

**MODULE 1**

**Clinical**

**40 credits**

Post Graduate Certificate (60 credits) Post Graduate Diploma 60 credits (total 120 credits) Final 4M 60 credits (180 credits)

Figure 1: A diagram to identify the Advanced Nurse Practitioner pathway via the MSc Advanced Practice programme of study; Sample taken from the final dissertation year.

The current final year dissertation module is an alternative to a traditional dissertation and adopts a portfolio assessment method, designed to encourage and stimulate a reflective approach to ANP development. The module comprises both a theoretical and clinical focus and utilises a combination of daily diaries related to clinical and professional issues, case-based discussions and clinical summaries, over a period of one academic year. The clinical aspect of the portfolio is supported by the student’s medical supervisor, who is directly involved in supervising their clinical education in this final stage. By acting as clinical supervisors they are also included in the sample.

As the focus is upon the student advanced nurse practitioners, to understand their educational experience, and really dig down to explore what supports or challenges their ability to learn, the sampling is purposive in nature (Simons, 2009). Using a purposive sample indicates the inclusion of participants who have acquired knowledge of the subject matter (Holloway and Wheeler, 2002; Silverman, 2011) and also have assumed features, experiences and related interest (Flick, 2009) in the focus of this study. Purposive samples should, according to Yin (2016) offer some participants who may have a different view in relation to the topic under study. This sample has included the clinical medical supervisors to act as just such participants. This, Yin suggests, will help avoid a degree of bias by choosing only participants who may agree or confirm my own preconceptions (Yin, 2016).

I acknowledge that this type of sample offers a representation of the students undertaking a master’s degree in one University and so the sample is not representative of the wider population. However, the intention is to engage in-depth scrutiny in relation to the research question, and as Thomas (2016) suggests sampling is not the correct word to use in case study. What Thomas (2016) proposes is that the ‘choice’, the actual identification of the subject studied to address the research question, is a ‘selection’ and one that has been made as it is crucial to the study. In support of this, Yin (2016) reiterates that often a qualitative study seeks to maximise on information and is not necessarily there to represent a larger population.

This does not mean that the case study cannot be influential or enrich wider understanding and debate. According to Thomas (2016), a case study is not designed to identify a section to represent the whole, it is considering a ‘selection’ of people who are key to helping one learn about the issues in question (Simons, 2009). Therefore, only student advanced nurse practitioners were selected as the sample as opposed to qualified advanced nurse practitioners, as the question posed within this study sought to consider the educational, clinical and professional development towards advanced practice of those experiencing that journey at the time. What the medical supervisors provided was a medical perspective of that journey, as advanced clinical practitioners require multi- professional engagement to ensure effective supervision, understanding and development of the role (HEE, 2017). As indicated previously, advanced clinical practitioners complement medicine (McGee, 2009) and I was interested to explore if the curriculum supported that development as viewed by the medical supervisors. The inclusion of academic educators was not undertaken as the focus of the study was upon the lived experience of the students. In addition, as Yin (2016) suggests, I wanted to avoid participants that may agree or sanction my own pre-assumptions, therefore academic educators were omitted. However, the views and experiences of educators could well provide a contrasting opinion of the challenges of creating a curriculum designed to support advanced level practice and as such this omission could pose as a limitation to the study (see Chapter 6, section 6.14). This sample addresses these requirements by ‘selecting’ participants who have characteristics similar, if not the same as, other students studying Master’s degrees in other universities aimed at developing advanced nurse practitioners. It is the impact of the curriculum on their clinical, educational and professional needs that is being investigated, and therefore it is the recipients of that experience that are selected as the sample. The experiences of the medical supervisors provide a potential alternative viewpoint (Yin, 2016), but from participants who still have some knowledge and understanding of the subject being studied and have a related interest (Flick, 2009).

## 3.8 Inclusion and exclusion criteria - characteristics of the sample.

Given the previously identified characteristics of the sample, the sample size is bound by the number within the cohort and the two participating clinical medical supervisors (n=11). One cohort of nine student advanced nurse practitioners and their medical supervisors, was selected for the reasons identified in section 3.7 relating to maximising on the depth of information provided by a selected sample (Simons, 2009; Thomas, 2016; Yin, 2016). All nine student advanced nurse practitioners agreed to take part in the study, however, only two of the medical supervisors responded to the request. At the same point the students were approached for their agreement to submit their diaries for inclusion in the study. Although all nine students participated in the semi-structured individual interviews, seven submitted their diaries with two abstaining, however this did not affect their ability to take part in the interviews. Both data collection tools were undertaken on a voluntary basis.

Those approached as potential participants in the study (inclusion criteria) are student advanced nurse practitioners as indicated by their clinical job specification (n=9, 2 primary care, 7 secondary care). Those who do not possess this title are excluded from the study, as they are considered specialist nurse practitioners (n=2) and do not necessarily determine a patient diagnosis (exclusion criteria), which is a key feature of advanced nurse practitioners (DH, 2010; HEE, 2017). All student advanced nurse practitioners are practicing within an acute hospital or primary/community Trust within the East Midlands of the United Kingdom from which ethical approval was sought (Appendix 5). All the student advanced practitioners participating within the study are professional nurses who are currently registered to practice by the Nursing and Midwifery Council (NMC).

The potential to explore the question from alternative viewpoints, not just those of the individual student advanced nurse practitioners, is offered via those who have indirectly impacted on the students educational and clinical support, being the clinical medical supervisors (n=2, 1 primary care, 1 secondary care). The medical supervisors offer a degree of triangulation and comparison (Silverman, 2011) although recruited in lesser numbers as previously indicated. Sample sizes tend to be smaller in qualitative data (Braun and Clarke, 2013) and can therefore lead to questions over ‘saturation’ and how much data is required before no further new information is generated. What is suggested is that one should have enough data to create a rich story, but not so much that any deep immersion in the data is not possible (Braun and |Clarke, 2013). The data created from both the in-depth semi-structured interviews and the diaries offered the richness, and detail to help answer the question posed by this study. Saunders *et al.* (2018) speak of data saturation being influenced by the adopted analytical approach and suggest models of saturation and their principal focus in the research process. In their paper the authors refer to the varying ways in which saturation is considered in qualitative research. Saturation is suggested as being met when there are no new emerging codes or when the researcher sees similar evidence over and over again. Alternatively, saturation is achieved through a combination of sampling, data collection and data analysis, being linear and not a separate process (Saunders *et al.,* 2018). It is important to identify that within this study data analysis did not take place until the data collection was complete and therefore was undertaken as a separate process, as such there is the possibility that data saturation was not achieved, this is noted in the studies limitations within Chapter 6, section 6.14. Interestingly, Fusch and Ness (2015) suggest that interviews, semi-structured interviews being one of the data collections tools within this study, should be structured to facilitate asking the same question to multiple participants, otherwise data saturation would not be possible due to the multiple differences that would occur. This suggestion is supported by Charmaz and Thornberg (2020) who indicate that if the researcher asks the same questions of each participant, they are likely to receive similar answers and stories about the subject in question, this, the authors suggest, is data saturation. The semi-structured interview provided such a structure and was used for each individual interview and certainly themes and patterns emerged from the data set during analysis (Simons, 2009) which are explored in Chapter Five. In addition, as this is a bounded case study, it was not possible to continue data collection to saturation, as the bounded case determined the participants. Future research using a different methodological approach such as IPA could provide the opportunity to extend and expand upon the findings of this study further. Fusch and Ness (2015) make an additional point in terms of saturation in that there is a link between triangulation and saturation. This is achieved through the exploration of a phenomenon using different angles and perspectives via multiple data sources (Fusch and Ness, 2015), which is a feature of case study (Simons, 2009; Yin, 2009) and which are provided by the diaries as well as the interviews within my study. The interviews and diaries provided the opportunity to constantly revisit the data comparing phrases, elements and paragraphs of spoken and written words for interrelationships and patterns (Thomas, 2011), which continued to confirm the emerging categories and themes, thus suggesting data saturation (Neuton Seuter, 2012). This process is captured in Appendices 9-13 and discussed in Chapter 4.

## 3.9 Interviews as a data analysis tool.

When constructing interviews, the focus should be on the question to be answered, but the structure should allow for a comfortable non-hierarchical relationship between interviewer and the interviewee, allowing for a more conversational interview to take place (Simons, 2009). This type of interview is referred to by Yin (2009) as a ‘focused interview’ and one that has a certain set of questions derived from the aim of the study, structured to be open ended and conversational, lasting about an hour. Information about the interview, its duration, location and purpose are important and was adopted into the Participant Information Sheet (PIS, Appendix 7), the semi structured interview schedule (Appendix 2) and included in the consent form (Appendix 3). The PIS provided the participant with the background to the study, identifying their role as a participant and allowing them to make an informed decision before accepting. Checking to see if the participant had read the PIS was requested at the start of the interview and prior to signing the consent form. Additional consideration was given to the fact that all participants had entered into the interview voluntarily, were provided with a unique code to maintain their confidentiality and consented to the interview being recorded and utilised within the study and for dissemination (see Appendices 2,3 and 7).

The questions related to the purpose of the study, were open in design and structured to allow plenty of opportunity and active encouragement for the participant to voice their views. The questions, although related to the focus of the study, began with a general question, to break the ice (Denzin and Lincoln, 1998). The questions themselves are a guide to help create a conversation around the subject, but movement away from their specific focus is not discouraged and as Silverman (2010) suggests, should allow for the participant to set the pace. This is a semi-structured, in depth, individual interview seeking the experience of participants who are developing advanced level knowledge and skills through clinical, academic and professional means. The questions reflect this purpose, but the planning of the interview itself was also a consideration. Punch (2005) refers to assessing the setting, deciding how to present oneself, establishing a rapport at the outset and gaining the trust of the participant. Therefore, the questionnaire needed to be flexible, but able to provide the opportunity for a prolonged and meaningful conversation in the following way.

According to Rubin and Rubin (1995) qualitative interviews, despite how they are constructed, share several characteristics. The authors suggest that interviews are modified everyday conversations, but with a focus upon understanding the knowledge and insight of the interviewee and having the ability to adapt to that knowledge and emotional experience. Given this, the interview should therefore be not unlike a conversation, where the interviewer asks a question and listens to the answer. I included space within the interview schedule to pause and wait (see Appendix 2) and offer a moment of reflection and time for the participant to contemplate the question and respond. This listening should occur despite the possibility of an interview schedule and so the conversation remains fluid and open to change each time an interview is undertaken (Rubin and Rubin, 1995).

It would therefore appear that an interview may or may not benefit from some level of structure and so can be described as structured or unstructured. However, it is argued that the difference can in many instances be very little. Hartas (2010) considers the point that all interviews between the researcher and the participant are in some way structured, so that the purpose of the engagement is clear. This is a good point and one that has been considered when designing the interview schedule for this study. As with all participants their time is precious and therefore interview questions must have a clear purpose and direction. This point is made by Simons (2009) who suggests that if interviews are with participants who have senior positions, it may be frustrating to them if there appears little structure to the interview. Therefore, I have chosen to incorporate a degree of structure to the interview schedule (Appendix 2). I am however mindful that as Hartas (2010) implies, structured interviews often favour a quantitative approach with closed questions and semi-structured interviews a qualitative approach with open questions. A semi-structured interview has been chosen for this study, whilst noting the importance for the interview to be an open conversation that is guided and therefore not confined by process (Yin, 2009) offering a more democratic and inclusive appeal.

Structure can however stifle conversation and unintentionally lead its direction (Yin, 2009; Thomas, 2016). There is therefore a case for suggesting that an interview should be unstructured allowing a sense of freedom to the conversation (Thomas, 2016). However, the advantages of a structured interview are that it allows the research agenda to be covered, the data is less likely to be influenced by potential emotional infiltration and thus the trustworthiness of the emerging data is more robust (Hartas, 2010). Therefore, a semi-structured interview allows for both advantages to be addressed: there is a structure to the interview, but with a freedom to discuss additional relative points that may be raised. What is noted here is that there is advantage to both a structured and unstructured interview technique. Those seeking to stay true to the interview schedule, so as not to introduce bias, are at odds with those emotionalists who would encourage such a departure (Silverman, 2001). The semi-structured questionnaire (Appendix 2) designed for this study takes the middle ground, allowing for structure to address the research question, offering a clear purpose for the participant, but providing a comfortable and conversational tone to the experience. It is important to note that semi- structured interviews are considered to be a stronger form of qualitative data (Huberman and Miles 1994; Miles and Saldona2014). The reasoning behind this suggestion is that the data arrives from informants, who have knowledge of the subject, are reflective and often articulate and willing to speak about the topic (Miles and Huberman, 1994; Miles and Saldona 2014). For this reason and the reasons given above, they are the primary source of data within this study.

Piloting the semi-structured interview schedule allowed reflection upon the research question and provided an opportunity to explore the flexibility of its design (Parahoo, 1997). What this provided was an opportunity to test the questionnaire on both the student advanced nurse practitioner and the medical supervisor within the pilot. It became clear that question one was not applicable for the medical supervisors and so this was omitted, and that questions three and four needed adapting to relate to the medical supervisors (see section 3.10). Piloting also allows experimentation with different styles and approaches to the interviewing technique, offering the opportunity to try out the questions (Stake, 1995). This was important in developing the confidence and technique of interviewing and for the relationship to develop between interviewer and interviewee, which can have consequences to the subsequent data collection (Silverman, 2013). Indeed, I found that my skills at interviewing improved as I progressed through the participants. I began to take more time and did not rush at the questions, I was mindful of keeping the conversation on track and in essence, as Simons (2009) suggests, I improved at knowing when to question and when to listen. The experience of designing the semi-structured interview, trialling its usefulness as a data collection tool, amending its wording to improve clarity and gaining an appreciation of the interviewer and interviewee relationship was supported by the pilot.

## 3.10 Pilot of the semi-structured interview schedule and its subsequent development.

The pilot comprised of one doctor, a supervisor of a student advanced practitioner undertaking the MSc Advanced Practice programme of study and one student advanced nurse practitioner undertaking the MSc Advanced Practice programme in the final dissertation year (n=2). Both participants were representative of the sample and met the inclusion criteria (Yin, 2009; Thomas 2016). Identification of the participants in the pilot is indicated in Table 4. NIP refers to, ‘Nurse Interview Pilot’, and DIP, indicates ‘Doctor Interview Pilot’.

Following the pilot, changes to the semi-structured interview schedule were minimal. The questions remained open ended, listed and numbered to maintain consistency across participants and to recheck certain points by asking the same question slightly differently later in the interview (Atkins and Wallace, 2012). What the pilot revealed was that this approach allowed for a fluidity to the semi-structured interview questions, a point that is supported by Yin (2009) and which certainly helped guide the conversation. The structure of the questions, which were designed to cover all elements of the enquiry, comprised of a total of six and allowed for a list of issues, drawn from the research question, to be explored, with the addition of a certain freedom to follow up on key points (Thomas, 2016). Question one did focus upon drivers that influenced the choice to develop into an advanced nurse practitioner, so following the pilot this question was omitted during the medical supervisor’s interview, providing a total of five questions (see Appendix 2). In addition, questions 3 and 4 of the semi-structured interview were also modified post the pilot. Question 3 was adapted for the medical supervisors to read’ As a medical supervisor who has supported a student undertaking the MSc Advanced Practice programme, what can you say about that experience?’ and question 4 read ‘As a medical supervisor, what do you think was the students biggest challenge in working towards becoming an advanced practitioner?’

Exploring a line of discussion surrounding a question was undertaken using probes or qualifying questions. These were phases such as ‘*can you give more detail’, ‘what do you mean’, ‘do you have any examples’* or *‘simple nods of the head’* and *‘smiles’* which encouraged the interviewee to expand on points (Drever,2003; Kvale, 2007; Simons, 2009; Thomas, 2016; Yin, 2016). This encouraged and gave space for stories to be told, capturing episodes and experiences (Stake, 1995) and so these remained unchanged for their value in exploring and qualifying during the interviews. The final question offered the participant the opportunity to give any further information not asked by the interview schedule and as Yin (2009) indicates, kept the interview friendly and non-threatening, whilst satisfying the line of enquiry.

## 3.11 Main study interviews.

Essentially, the semi-structured interview schedule allowed the research question to be focused upon, whilst allowing the participant a sense of freedom to explain its significance to them personally. All interviews were recorded for accuracy which Thomas (2016) points out is important in interpretative research. The interviews took place on University premises, in quiet pre booked rooms. Consent (Appendix 3) was gained prior to commencement of the interview and post acknowledgement that the participant had read and understood the participant information sheet (Appendix 7). All interviews proceeded without interruption and to plan. During the interview validation was sought to confirm that I had understood correctly the participants response to the question for fairness and accuracy (Simons, 2009). Careful recording and verbatim transcription were undertaken, followed by respondent validation of the transcript as described by Silverman (2011), which helped confirm the accuracy of the contents of the interview. A time frame of two weeks was given to allow the participant time to read and confirm accuracy of the transcript, following this time frame accuracy would be assumed if not confirmed. Five responded and indicated confirmation of accuracy therefore no corrections were required. Arranging the interviews with the participants and taking care that these should not impact on their clinical practice resulted in the interviews being spread over seven months. These delays occurred despite the development of a timetable of events associated with the study.

Early data analysis was shared at a Doctor of Education Colloquium held at a university in Oxfordshire. This offered me the opportunity to share my work and its findings with fellow academics and discuss my qualitative study, the approach taken and the early data and emerging codes and categories. The event provided constructive feedback, discussion and networking opportunities and as Creswell (2013) indicates acts as a peer review where meaning, interpretation and methods are questioned. In addition, findings of the study were discussed at advanced practice county held meetings, that included Trust members who determine the progression of advanced practice both clinically and academically. However, other than participant verification of the transcripts and validation of any conversation during the interview process, the participants were not officially provided with ‘member checking’ as described by Creswell (2013). This involves providing the participants with the analysis, interpretation and conclusion of the study, to seek assurance that their experiences have been accurately interpreted. However, this was discussed in part at county level meetings, where one or two of the participants were present, and although not formally conducted, this did offer an opportunity for feedback from some of the participants and a wider audience.

It is important to check the transcripts carefully by listening to the recording to make sure what was said is faithfully transcribed and accurate. This is essential, as indicated by Stainton Rogers (2011), as the quality of the outcome relies on the interpretation of the data, which in turn must be exact. In addition, interviewing medical supervisors using the same semi-structured interview schedule as for students (although as indicated above, omitting question one for its lack of relevance), offered the potential for an alternative viewpoint, as they adopt a different space and have a different interaction with the student advanced nurse practitioner and the educational Master’s curriculum (Stake, 1995). What the transcript offered, coupled with the initial recording, was an opportunity to relive the interview and re-examine the audio and transcribed data and make notes. As Simons (2009) suggests, alone on a page, words do not convey the overall meaning of the data and therefore this kind of immersion allowed me to see all forms of gathered data as a whole, providing for a deeper sense of understanding.

## 3.12 Diaries - supporting triangulation.

The interview audio tapes and transcriptions offered an opportunity to understand the students and their supervisor’s experiences. However, as Thomas (2016) suggests, we can only really begin to understand something if we view it from different angles or by triangulation. Within case study research triangulation is referred to by all the authors I have utilised in the development of this study. The consensus is that triangulation is arrived at by the use of several data gathering sources which allow for ideas, experiences and opinion to be gathered from different perspectives (Simons, 2009; Yin, 2009; Swanborn, 2010; Thomas, 2011). Although multiple sources of data provide an opportunity for triangulation, it is not the only source. According to Creswell (2013) when qualitative researchers find evidence within different sources of data from which to create codes or themes, then they are triangulating the information and providing legitimacy to their findings. Therefore, it is not only the data but the methodological approach that facilitates triangulation.

As such, two forms of triangulation exist within this study, one being the data source which refers to the interviews and diaries provided by the multiple participants, and the other being the methods adopted for data collection and analysis (Braun and Clarke, 2013). Section 3.6 and 3.9 describe the data collection tools which capture the thoughts, experiences and opinions of the participants within this study, providing a viewpoint from different angles. Once collected this rich data is then analysed using a constant comparison method (Thomas, 2016), as discussed in section 3.14, where patterns and occurrences can be coded and compared and categories developed (Silverman, 2011; Thomas, 2016). This process is summarised in Table 8, Chapter 4, section 4.12 which shows the development of categories via analysis of the interview and diary data and emerging codes. Simons (2009) suggests that the process of triangulation offers a way of cross checking the data set to determine the significance of key emerging themes. Huberman and Miles (1994) and Miles and Saldona (2014) refer to the use of different data sources that have a different bias, which in this study is achieved through the use of interviews and diaries, so that strengths of each can be compared. This is therefore a notable strength of case study research, as it often employs a variety of data collection tools to view a question from multiple angles (Yin, 2009).

The use of diaries helped support the process of triangulation and supplemented the interviews to gain a greater insight between what had been said at interview and what actually occurred within clinical practice (Hammersley, 2013). The addition of data from the diary entries offered day to day documented evidence of cases the student advanced nurse practitioners encountered, people they interacted with, colleagues they worked alongside and the experiences and learning they received or required. They were each individual, some more detailed than others and focused on their professional daily clinical activities. Many authors (Stake, 1995; Yin, 2009; Simons, 2009; Yin, 2012) speak of documentary evidence and how this can be useful in case study research, be it policies, documents, emails and diaries. Thomas (2013, 2016) in his books related to case study, identifies the use of diaries as a data collection tool and recognises their potential. The diaries are a secondary source of evidence to enable exploration of the research question. Their secondary status relates to their variability which makes them more difficult to analyse, the fact that they may have less depth which cannot be addressed unlike an interview, and the issue that they rely on participant motivation (Braun and Clarke, 2013). Thomas (2013, 2016) refers to this kind of daily entry by the participants as ‘interval-contingent’, meaning the participants in the study report on their experiences at regular intervals, which will rely on their motivation to do so and hence the issue with variability (Braun and Clarke, 2013). For these reasons the diary data is not the primary source of data used within this study, rather, this is provided by the interview data.

The requirements of the portfolio are for the students to reflect upon daily events and once a month extract themes or a pertinent occurrence that they wish to explore more fully in an academic summary or case-based discussion. The diaries were compiled using a template (Appendix 14), which helped the students to describe an event and reflect upon it. This simple table allowed the student to write about the experience in their own words over a year long period, as the diaries were commenced in September 2016, completed and submitted for assessment in August 2017, with submission in September 2017 for voluntary inclusion in the study. The choice to use the diary as a data collection tool is supported by Thomas (2016) who suggests that it is here where the student may choose to disclose information that is not captured by the semi-structured interview schedule. However, as Braun and Clare (2013) suggest, this form of diary data does not allow the researcher to probe certain unanticipated questions, offering the possibility that some of the diary data will be less transparent than data produced in an interactive interview.

The interviews took place between May and November 2017, with the commencement of the diaries in September 2016 and submission for voluntary inclusion in the study in September 2017. This timeline allowed for the students to commence reflection upon their practice and daily activity as a student advanced nurse practitioner, before being approached in March 2017 to participate in the study. This was a period of nine months between September 2016 and May 2017, when the first interview occurred. Use of the diaries offered a potential insight into the professional, clinical and educational daily activities of a student advanced nurse practitioner, a biography of that individual’s clinical life (Stainton Rogers, 2011) and as Stainton Rogers (2011) suggests, qualitative research seeks to explore the difference in people, not the sameness. However, there is a noted overlap between the commencement of the diaries and the beginning of the interviews, when both data collection tools were simultaneously utilised for all but one of the student advanced nurse practitioner participants. Therefore, there is a slim possibility that undertaking the interview may have had an impact on the diary entries made by the participant. However, the data emerging from the diaries (Appendix 12) is very broad, appearing to reflect concerns, experiences and challenges emerging from day-to-day clinical activity, therefore with no resemblance to the semi-structured interview schedule questions (Appendix 2).

This additional diary data allowed for greater context to be drawn during interpretation of the interviews when using the audio recordings and assisted in the identification of pattern recognition and potential associations (Hammersley, 2013). Adopting this approach helped prevent the misunderstanding of a meaning attached to a word or sentence and relating this to the participants experience in general or the researcher simply influencing the interview by their presence. Silverman (2013) refers to this problem and cautions on interviews being treated as direct access to experience. Using both forms of data collection provided the opportunity to detail the direct ‘one off’ interview and explore further that data with the diary documentation, that was recorded over a period of time, therefore being unrelated to the interview (Denzin and Lincoln, 2000). This provided the opportunity to capture the context of the student’s clinical and educational experiences.

The table below (Table. 4) summarises the methods of data collection including the pilot, sample size, participant codes, interview dates, transcriptions and those students who voluntarily provided their clinical diaries.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Participant Code** | **Interview Date** | **Interview duration mins and secs** | **Transcription** | **Voluntary Diary Submission** |
| **Pilot** |  |  |  |  |
| **DIP** | **May 2017** | **75:22** | **May 2017** | **NA** |
| **NIP** | **May 2017** | **50:28** | **May 2017** | **NA** |
| **NI1** | **May 2017** | **38:59** | **August 2017** | **Yes** |
| **NI2** | **June 2017** | **29:29** | **August 2017** | **Yes** |
| **NI3** | **June 2017** | **43:04** | **September 2017** | **Yes** |
| **NI4** | **June 2017** | **108:30** | **October 2017** | **Yes** |
| **NI5** | **June 2017** | **34:40** | **October 2017** | **Yes** |
| **NI6** | **June 2017** | **49:04** | **October 2017** | **Yes** |
| **NI7** | **July 2017** | **28:40** | **November 2017** | **Yes** |
| **NI8** | **August 2017** | **102:02** | **January 2018** | **No** |
| **NI9** | **November 2017** | **36:29** | **January 2018** | **No** |
| **DI1** | **June 2017** | **25:53** | **August 2017** | **NA** |
| **DI2** | **June 2017** | **37:25** | **August 2017** | **NA** |

**KEY**

DIP - Doctor Interview Pilot

NIP - Nurse Interview Pilot

NI1-9 – Student Advanced Nurse Practitioner participants 1–9

DI 1-2 – Medical Supervisor participants 1-2

Table 4. Summary of the data collection

## 3.13 Engaging the participants in the research study, a timeline.

The timeline (Table. 5) indicates the progression of the study from September 2016 when the student advanced nurse practitioners commenced the final stage of their Master’s programme, through to the data collection process, utilising the data gathering tools identified within this chapter. As this was a bounded case study which focused upon a cohort of student advanced nurse practitioners, the size of the case cohort was predetermined. Data analysis commenced once all interviews and transcription had taken place. Although this was the case, I acknowledge that as Miles and Huberman (1994) and Miles and Saldona (2014) point out, the researcher is in a process of data analysis throughout the data gathering and transcribing process, often unknowingly. However, qualitative data, especially that which is semi-structured as in the interview schedule, can require a degree of processing to prepare for analysis (Silverman, 2005), hence analysis took place once the processing was complete, as indicated in Table 5.

|  |  |  |  |
| --- | --- | --- | --- |
| **MONTH** | **YEAR and ACTIVITY** | | |
|  | **2016** | **2017** | **2018** |
| **SEPTEMBER** | **September 2016 cohort commenced final stage of the MSc Advanced Practice programme** |  |  |
| **DECEMBER** | **Ethical approval from the university.** |  |  |
| **JANUARY** |  | **Ethical approval sought from the Trust**  **As Trust employees, ethical approval from the Health Research Authority (HRA)** |  |
| **FEBRUARY** |  | **HRA- approval not required (Appendix 6)** |  |
| **MARCH** |  | **Students and supervisors approached as possible participants for the study** |  |
| **APRIL** |  |  |  |
| **MAY** |  | **Semi-structured interview pilot undertaken and transcribed (n=2)**  **First interview for main study undertaken** |  |
| **JUNE** |  | **Interviews undertaken- 5 student advanced nurse practitioners and 2 medical supervisors** |  |
| **JULY** |  | **Interviews undertaken- 1 student advanced nurse practitioner** |  |
| **AUGUST** |  | **Transcription commenced**  **Submission of diaries for assessment**  **1 student advanced nurse practitioner interview** |  |
| **SEPTEMBER** |  | **Transcription**  **Voluntary submission of diaries for the study** |  |
| **OCTOBER** |  | **Transcription** |  |
| **NOVEMBER** |  | **Last interview for the main study undertaken**  **Transcription** |  |
| **DECEMBER** |  | **Transcription** |  |
| **JANUARY**  **2018** |  | **Transcription** | **Transcription**  **Methodology chapter commenced** |
| **FEBRUARY** |  |  | **All data transcribed and collected** |
| **MARCH** |  |  | **Participants contacted to verify final approval of transcripts before data analysis commenced** |

Table 5: Identification of the data gathering timeline.

## 3.14 The approach to data analysis.

The approach to the data management and methods of analysis related to this study are discussed in detail in Chapter 4, however the challenge of this process is that there is more written about the methods of qualitative data collection than there is about qualitative data analysis (Miles and Huberman, 1994, Miles and Saldona, 2014; Kuckartz, 2014). This is possibly due to the variety of data collection methods that can be adopted by qualitative researchers. Miles and Huberman (1994) and Miles and Saldona(2014) attempt to summarise features that they feel are often present in qualitative research and the analysis of the data produced by such an approach. They propose that the process is intense and often prolonged, capturing data from within the situation under study and offering an in-depth and sensitive understanding of the workings of everyday life as seen by others. They suggest qualitative researchers become the main measuring tool of this data, isolating occurrences and creating themes, whilst at pains to retain the data in its original state. The overall aim is to extrapolate what the participants of the study make of their world, given the situation in question. Using this process, it is possible that varying interpretations can be made, but some will occur more than others and therefore be more compelling (Huberman and Miles, 1994; Miles and Saldona 2014). Taking this suggested broad summary, a conceptual framework, which is discussed in Chapter Four sections 4.7-4.8, was developed to help consider how best to address the emerging data from the data collection.

My decision was to use a constant comparison method, which is supported by Thomas (2016) who suggests it can help draw out comparisons from the emerging data. The purpose of this was to analyse the data and consider the thoughts and ideas discussed by the respondents which could then be coded, compared and refined (Silverman, 2011; Thomas, 2016), from which categories could be developed. This data reduction, through a process of thematic analysis, as indicated by several authors (Hartas, 2010; Silverman, 2011; Thomas, 2016) was subsequently arranged into themes. The process of thematic analysis arises from the grouping of the data, as indicated above, and the consideration of the relationship between them (Thomas, 2016). This method of analysis was undertaken manually. Careful transcription of the interviews was carried out, to provide intensive examination and to highlight, as Silverman (2011) indicates, any potential areas of focus occurring within the main data. The process required the reading, listening and making notes of any pertinent points, which would allow for raw data to be drawn out and temporary codes created. The codes were then compared with the transcripts and literature (Silverman, 2011; Thomas, 2016). Thomas suggests this constant comparison method is the task of going through data repeatedly and then comparing the findings with all the other elements and data associated with the study (Thomas, 2011, 2016). The art of coding is, as Braun and Clarke (2013) suggest, to identify elements of the data that relate to the research question. To do this, one of two methods can be used, selective or complete coding (Braun and Clarke, 2013). For this study, rather than using only a selective method where only certain words may be considered, the entire data set, complete coding, was analysed against the research question. Table 6 summaries the data analysis process, based upon work by Braun and Clarke (2013) and Thomas (2011, 2016), which is discussed in detail in Chapter Four.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Data Collection Tool** | **Method of analysis for the data set** | **Data analysis and reduction** | | |
| **Interview data** | **Transcription**   * Read and re-read transcriptions * Listen and re-listen to the audio recording of the interview * Familiarisation with and immersion in the data | **Coding**   * Use of entire data set * Creation of first codes * Re-read the entire data set * Consider the relevance of the first codes (keep this data aside) * Coding must be inclusive and thorough | **Categories**   * Consider the relationship between codes and emerging categories (thematic map) | **Themes**   * Define and refine the themes (do they connect, do they agree, are there contradictions) * Selection of ‘quotes’ to illustrate the themes * Write up demonstrates a connect between method and analysis offering a clear story regarding the subject area and the resulting data |
| **Diary Data** | **Written document**   * Read and re-read the diaries |

Table 6: A summary of the data analysis process, based on Braun and Clarke, (2013) 15 Point Check List (page 287) and Thomas, (2011, 2016).

## 3.15 Data collection tools, coding, and the use of technology.

The participants had been asked a set of questions aimed at addressing the research question. Each question had probes attached to help explore the participant’s answer and offer them the opportunity to give their personal story. Therefore, the coding began by analysing each of the questions, one to six, individually. This allowed the data to be broken down into sections for analysis (Coffey and Atkinson, 1996). One noted point was that of who the participants were and why they had been approached to take part in the study. I raise this point in relation to hermeneutics, which relates to how the text may be interpreted, translated and explained. Kuckartz (2014) raises this issue suggesting several points to consider when undertaking qualitative text analysis. The author suggests that researchers need to reflect upon their own preconceived ideas related to their research question, which is alluded to in section 3.2, of this chapter. Attempting to address issues such as these, prompted the consideration of using Computer Assisted Qualitative Data Analysis (CAQDA) software, as well as manual analysis. However, there are challenges to adopting a computerised tool to support data analysis. A misconception is that the computer software will do the analysis for you, but it will not (Denzin and Lincoln, 2003) and as Braun and Clarke (2013) make clear, it will only assist in the process. There are additional concerns raised by Zamawe (2015) that CAQDA can distance the researcher from the study leading to the potential for missed data, thus requiring further manual verification. Therefore, within this study manual analysis was utilised to ensure a more rigorous and immersive consideration of the data and is discussed in detail in Chapter Four.

## 3.16 Ethical considerations.

As a nurse I am bound by the Nursing and Midwifery Council Code of practice (2018). The Code requires that I treat people as individuals upholding their dignity, showing respect for their human rights, respecting the right to their privacy and confidentiality and taking care to keep accurate records. These resonate with the importance of recognising ethical considerations when undertaking this research study and served to guide the approach. This, as Simons (2009) indicates, is an important factor to ensure that participants feel secure in the knowledge that they will be treated fairly.

Seeking participants’ thoughts and views about a particular question offers a unique insight into their perception of that experience. This qualitative approach allows a research study a degree of fluidity and flexibility to its design. However, Yin (2016) points out that in doing so it demands that the researcher conducts their study accurately and fairly and be open to challenge. I am bound by my professional code as a registered nurse (NMC, 2018), but I am also aware of the need to consider general ethical codes related to conducting any kind of research study. These, according to Denzin and Lincoln (2000), include the addition of informed consent (Appendix 3) for the participants, so that they are aware of the nature and consequences of the study. The overall design of the study should not be deceptive or coercive, a point that is discussed in relation to my positionality within the study, (see section 3.17), the identities of the participants should be safe guarded and there is a requirement to ensure that data is accurately portrayed and not fabricated. These requirements are echoed by the Ethical Guidelines for Educational Research (2011) published by the British Education Research Association (BERA).

These ethical requirements have been evident in the development of my study. I have sought ethical approval from the University of Derby (Appendix 4), the local Trust (Appendix 5), who are the employers of my participants and the Health Research Agency (HRA) (Appendix 6); a national organisation that governs all research conducted within the NHS, including staff members. To each of these authorities I have presented a detailed outline of the study, which indicates that both student advanced nurse practitioners and medical supervisors who work for the Trust form the sample and would be invited to participate in the study. Both the HRA and the Trust waivered the requirements for ethical permission given the information provided (see Appendices, 5 and 6). For the participant an information leaflet (Appendix 7) was provided outlining the study and providing information regarding participant withdrawal and alternative contacts for support during and after participation. This information leaflet makes clear the participant’s role and activity within the study (Thomas, 2016) and therefore helps them make an informed decision regarding participation. The semi-structured interview schedule for the pilot and post pilot was also declared (Appendix 2), as well as the consent form (Appendix 3) used for undertaking the interviews, recordings, and transcriptions. Careful recording and verbatim transcription were undertaken, followed by respondent validation of the transcript (Silverman, 2011), which helped confirm the accuracy of the contents of the interview.

Whilst there may be a professional drive to seek and adopt good clinical practice through research, there is also the professional responsibility for the consequences of such research and its findings. Higgs, Armstrong and Horsfall (2001) refer to the need for reflection, to consider any areas of sensitive material, the negotiation of relationships and the potential politics of any negative outcomes. The ultimate outcome is to utilise research to do good, termed beneficence and not to do harm, or non-maleficence. These are two of the four biomedical ethics coined by the two American philosophers, Beachamp and Childress (Baxter, Brennan and Coldicott, 2002). To do no harm is to ensure that the trust and relationship between the researcher and the participant is a form of contract, one that seeks to protect the participant from any embarrassment or unnecessary exposure (Denzin and Lincoln, 2000).

As a lecturer in post registration nurse education undertaking this study, I feel I owe ethical consideration to the following: the student advanced nurse practitioners and their supervisors through which I gain inside privileged access to clinical practice, to the employer whose working environment I have indirectly explored and potentially laid bare, to government departments who determine law and doctrine which may influence environments and practice, and to the recipients of the care, namely the patients who these students will ultimately serve. I owe consideration to them all, as the interchange of knowledge and new understanding generated from my research question is formed via these multiple sources. This stance is echoed by Simons (2009) who when reflecting upon the ethical principles related to case study, makes clear that there needs to be respect for not just the participants, but also to those who have a right to know about its findings. By taking time to consider not just the responsibility of conducting the study ethically, but also the question of whose voice, whose professional stance, whose interests have led to its findings, the question of ownership is raised (Simons, 2009). However, maintaining anonymity remains an important factor which is discussed in detail in Chapter Four.

## 3.17 Positionality - my relationship to the Case Study.

The use of case study offers a naturalistic enquiry by using conversation, documentation and social and interpretive skills in relation to human behaviour. Having said this, there is still a need to be explicit and, as Miles and Huberman (1994) and Miles and Saldona (2014) imply, it is important to show how conclusions have been drawn from the data, using a systematic approach that can be viewed as credible, replicable and dependable. This can be a challenge for case study research, as according to Simons (2009) concerns in relation to the researcher’s involvement and the idea that inferences can be suggested from considering a single case may question validity. It is therefore important that at this early stage the positionality of the researcher is made clear. I am very aware that by doing so my study may suffer from being inward looking and as Coe *et al.* (2017) suggests, rather self-indulgent leading to the potential for distrusting the outcomes. For this reason, it is imperative to make clear my role and potential influence upon this study.

I have linked this discussion closely to that regarding ethics (Chapter Three, section 3.16), the two being influential in the respect of my participants and their voice. As this study has sought the views of students, the data required demands a certain closeness to their academic and clinical life that cannot necessarily be obtained otherwise (Coe *et al.,* 2017) and it is this closeness that requires unpicking in order to be made transparent (Thomas, 2016). What I am referring to is, as Thomas (2016) suggests, my positionality in relation to the participants. Interestingly, Atkins and Wallace (2012) indicate that there are advantages to using this type of methodology in that the opportunities to access participants, as a lecturer and a researcher, are more readily available in the workplace and that pre-existing relationships are already formed which may offer greater disclosure. Despite the issues associated with my close proximity to this research, it would appear logical that as I have an understanding and appreciation of the complexities of professional advanced nursing practice and the clinical environment where it is applied, I would be uniquely placed to research it (Fox, Martin and Green, 2007).

According to Polit and Beck (2006) reflexivity offers a process of analysis by which the researcher can consider the impact of their potentially self-imposed bias, arising from their own personal values, which may affect data collection and interpretation. This is an important consideration as the inside researcher may be so accustomed to the environment, that evidence from the enquiry is taken for granted rather than observing the uniqueness of the experience (Hockey, 1993; Anderson and Herr, 1999). Indeed, if the findings are to be considered credible then as Dodds (2011) indicates, I need to be aware of my own influence and philosophical viewpoints so that they do not cloud my vision and judgement. However, examining oneself in relation to the study reveals that I am the main participant, the designer, interviewer and analyst of the emerging data (Simons, 2009). My personal interaction with the research must therefore be acknowledged and how, with the participation of the student advanced nurse practitioners and their medical supervisors, the outcome of the data analysis is co-produced. If as a lecturer/researcher I can be adaptable and sensitive to the issue of relationships, proximity to the research subject and its potential impact on the validity of findings, then there is a richness of data to be explored. If as the researcher I accept the complexity of social research and that it would appear almost impossible to remove one’s own moral, emotional and professional understanding from the research outcome, then as Gallais (2003) indicates, perhaps the outcome can be viewed objectively with those considerations in mind.

Using a case study approach positions me central to the data and its interpretation, which is problematic in terms of maintaining objectivity (Thomas, 2016). As this is recognised as very difficult to achieve, there must therefore be an honesty and transparency (Silverman, 2011; Thomas, 2016) of my position in relation to the research subject. In this study that positionality is related to my experience as a lecturer of student advanced nurse practitioners undertaking an MSc in Advanced Clinical Practice, the close proximity in that role to the students, the relationships developed through that professional association, the knowledge of their profession, my professional background as a nurse and the impact in relation to these potential issues and responsibilities to the students and organisations, directly and indirectly affected by this study (Chapter Three, section 3.17). I am known to the student advanced nurse practitioners that form the participants within this study and act as interviewees. This closeness, referred to as acquaintance interviews by Braun and Clarke (2013), whilst acceptable does pose ethical considerations (see Ethical considerations, Chapter Three, section 3.16). The relationship that exits within the interview must therefore be carefully managed and address any associated sensitivities e.g., positions of perceived hierarchy. The participants need to feel they are being treated fairly and that there is a flow of information that is not impacted upon by any notion of hierarchy (Simons, 2009). As the lead for the student advanced nurse practitioners programme, this was certainly a consideration, but the established relationship, trust and respect that had developed as a result of this position, provided a mutual appreciation of each other’s role within the study and the knowledge each could contribute (Fox, Martin and Green, 2007).This study is subject to my interpretation of the data as the researcher, whilst being immersed in its capture, associated to its participants, and having knowledge of their world. I want to make this very clear to readers of my study and as Thomas (2016) suggests, offer an honest and faithful account of my position within it, the process and outcomes, so that the study becomes transparent for what it is and is not.

Case studies generally do not provide generalised data (Thomas, 2016), instead the emerging ideas and concepts are resultant from the case and offer a rich and insightful view from a bounded focus upon a section of life. The data from the case study creates theoretical propositions and not generalisations (Yin, 2009) and in doing so illuminates areas for discussion and potential development (Thomas, 2016). Stake (1995) when he considers the outcome of case study, suggests that particularisation not generalisation is the overall outcome of case study and what is of importance is the focus on and understanding of the case itself.

## 3.18 Conclusion.

This chapter sets out to identify the structure of this qualitative study. The choice of a case study approach is made clear and the reasons for such an approach are identified. The data collection tools selected for this qualitative case study are discussed and the structure by which the emerging data will be analysed is explored. The choice of sample, its size and focus, the ethical considerations related to the study, including a transparency in relation to the nuances associated to the methodological choices are captured. This will allow for the data analysis, which is discussed in Chapter Four and the results emerging from this methodology, which are expressed in Chapters Five and Six, to be seen and considered with clarity.

# CHAPTER 4 - Data Management and methods of analysis.

## 4.1 Introduction.

In this chapter I acknowledge an important point made by Holloway and Galvin (2017) that an audit trail should be clearly identified to allow readers of this study to follow the decisions made by the researcher, therefore offering a sense of clarity and honesty in relation to the study. In Chapter Three the choice of a case study approach and the related methodology was discussed. The data collected as a result of that approach is discussed in this chapter, which will detail the management and analysis of the qualitative data set, which is predominantly undertaken using thematic analysis as described by Braun and Clarke (2013). It will document the precise analytical procedures that have been adopted and offer a reasoned argument regarding the choices made. This approach will create a level of transparency and honesty and will afford not just a level of scrutiny, but an enhanced sense of credibility to any findings and recommendations that are presented resulting from the data analysis process. This will help address a point made by Kuckartz (2014, pg. 8), that an ‘anything goes’ approach to qualitative data, whereby researchers can adopt evermore imaginative methods, may challenge the conventions held by stricter methodologists. However, the qualitative researcher seeks to tell a story and piece together data that is captured by methods best suited to answering the research question (Denzin and Lincoln, 2003). This chapter acknowledges these challenges and explores their potential impact on the qualitative data associated with this study.

## 4.2 Management and analysis of the data set.

The data set related to this study was forged from interpretive enquiry (Simons, 2009) utilising data that epitomised a vision of the world under question, as viewed by the participants (Thomas, 2011). The interview and diary data provided this rich source of personal experience and opinion, which reflected the participants understanding and their personal take on the world they inhabited and offered this data for interpretation. Applying an inductive process, as described by Braun and Clarke (2013) to this study’s rich data, allowed for the creation of categories, but according to Kuckartz (2014) the inductive process is never strictly isolated, rather several stages of processing, coding and categorising are applied to the data. This observation by Kuckartz (2014) may help understand a point raised by Thomas (2011) that induction has limits in social science because human relationships and their interaction are complex and therefore generalisation is not possible. However, to realise the data, working inductively, as Simons (2009) suggests, allows for consideration of issues raised by the participants, which helps extrapolate any significant implications. Therefore, by adopting this process, the participant’s world view was explored through the development of themes, which offered further insight and meaning (Simons, 2009) and which provided me with evidence, that through dissemination, had the potential to create debate and change.

The process of thematic analysis is described by Braun and Clarke (2013) as a widely used systematic method of data analysis, that is not solely adapted for a particular theory, and which allows patterns and themes to be analysed. I have adopted this process whilst acknowledging the words used by Gary Thomas (2011, pg. 172) in his book related to case study research. Thomas (2011) refers to themes or categories as the ‘building blocks’ of the analysis; using an interpretive approach allowing the emergence of meanings created by both the participant and the researcher. This fits well with the explanation that Braun and Clarke offer in relation to what exactly thematic analysis is (Braun and Clarke, 2013). They suggest that it is a ‘bottom up’ approach to data analysis, not shaped by theory, but forged, to some extent, from the researcher’s understanding and knowledge of the subject and their epistemological view. This ‘bottom up’ approach is the chosen process of analysis for this study, keeping the participants and the researcher as key collaborators in the data production, from which patterns are discerned and explored. Flick (2018) discusses the process identified by Braun and Clarke and recognises the steps as transcription, coding (semantic or latent), searching for categories, refining codes and categories, visualising the relationship between them and identifying themes. It is interesting that Flick (2018) also proposes that Braun and Clarke’s thematic analysis is derived from other methods of analysis such as narrative, discourse and grounded theory analysis and that thematic analysis is a form of amalgamation of them all. Therefore, Braun and Clarke (2013) identify thematic analysis as a method that offers flexibility in relation to epistemological and ontological viewpoints, as well as methods of data collection.

Although the flexibility and the step-by-step approach of thematic analysis is attractive, it is not without its critics. I refer to the comments made by Holloway and Galvin (2017, pg. 211) that thematic analysis, by coding and analysing, has the potential to ‘fracture’ the data resulting in the loss of emerging relationships and patterns. Flick (2018) also speaks of thematic analysis as a rather general approach to qualitative data analysis, resulting in a somewhat ‘hands on’ method of scrutiny. However, Braun and Clarke (2013) acknowledge such short falls themselves, referring to the perception that thematic analysis somehow lacks substance, unlike the theoretically focused Grounded Theory and that it only offers the description of the participant’s concerns, resulting in the potential loss of their voice. These points are referred to by Swanborn (2010) in his book entitled Case Study Research, what, why and how? Swanborn (2010) indicates the challenges and various identified approaches to qualitative data management and analysis, concluding that any output of such data should acknowledge its potential scope and be fully transparent regarding its examination.

Although I recognise and pay tribute to challenges of qualitative data analysis (Swanborn, 2010; Holloway and Galvin, 2017; Flick, 2018) I refer to what I consider to be an important point made by Helen Simons (2009). When speaking on the perspective of case study research, Simons suggests that the world is viewed from multiple angles, by participants visualising naturally occurring circumstances and interacting with the researcher, who in turn attempts to interpret that vision. I feel it is important to note this perspective, as it captures the complexity of deciphering the reality from the interview and the frequency of occurrences noted within the diary data related to this study, which is produced by others and shared in the context of research. This chapter will therefore address these issues, by offering clarity on the data management and analysis related to this study.

## 4.3 Considering the data - identifying the source and quantity of data to be managed: the interview and diary data sets.

Case study research is accommodating in its breadth of application to both qualitative and quantitative research, as well as the methods of data collection and analysis (Thomas, 2011). This has allowed for a case study design that adopts an embedded approach (Yin, 2009; Thomas, 2011) as discussed in Chapter Three, section 3.5, permitting comparisons to be drawn between the participants from which patterns can be noted. In her book, Case Study Research in Practice, Simons (2009) makes clear the importance of coding, suggesting that the data produced is clearly identified and segmented for comparison during thematic analysis.

To address the point made by Simons (2009) within this study and help manage the data, each participant was given a code. NI indicated ‘nurse interview’ with a number being given to each nurse participant, NI 1-9. Doctors were given a DI code for ‘doctor interview’, again with a number to differentiate between the interviews, DI 1-2. Within the transcripts the researcher was given the code I for ‘interviewer’, with the N or D codes indicating within the transcript when and where the interviewer or participant spoke. Transcription was completed in February 2018, with voluntary submission of the diaries by respondents concluded in November 2017. Part of the semi-structured interview required the inclusion of some simple demographics pertaining to the participants. This data was collected, as Braun and Clarke (2013) suggest, to offer a description of the sample and help reflect a relationship between the results and the sample itself. This information is depicted in the table below identified as Table. 7.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Participant Code** | **Participant Gender** | **Participant Age Group** | **Participant Professional Qualifications** | **Participant Academic Qualifications** | **Participant Number of Qualified years** | **Participant area of clinical practice** | **Comments** |
| **Pilot** |  |  |  |  |  |  |  |
| **DIP** | **M** | **41-45** | **Dr, General Practitioner** | **MRCGP** | **6** | **Primary care** |  |
| **NIP** | **F** | **35-40** | **RGN** | **BSc** | **8** | **Secondary care** |  |
| **NI1** | **M** | **35-40** | **RSCN, RN** | **Diploma, BSc (Hons)** | **14** | **Secondary care** | **Nursing participants data.**  **Average age of the nursing participants 40 years.**  **Average number of qualified years 19 years** |
| **NI2** | **F** | **41-45** | **RGN** | **BSc (Hons), MSc** | **18** | **Secondary care** |
| **NI3** | **F** | **46-50** | **RGN** | **BSc (Hons)** | **27** | **Secondary care** |
| **NI4** | **F** | **35-40** | **RGN, RSCN** | **Diploma, BSc (Hons)** | **20** | **Secondary care** |
| **NI5** | **F** | **25-34** | **RGN** | **Diploma** | **12** | **Primary care** |
| **NI6** | **F** | **25-34** | **RN** | **BSc (Hons)** | **9** | **Secondary care** |
| **NI7** | **F** | **50-55** | **RGN** | **APL degree credits** | **29** | **Primary care** |
| **NI8** | **F** | **50-55** | **RGN** | **PG Cert (Ed)** | **30** | **Secondary care** |
| **NI9** | **F** | **35-40** | **RGN,** | **Diploma, BSc (Hons)** | **14** | **Secondary care** |
| **DI1** | **F** | **41-45** | **Dr, Consultant** | **MBCHV, MRCS A/E, Dip IMC, FRC** | **19** | **Secondary care** |
| **DI2** | **F** | **41-45** | **Dr, General Practitioner** | **BMBS, DFRSH, DRCOG, DCH, MRCGP** | **15** | **Primary Care** |

Table 7. Identification of the demographic data of participants in relation to age, gender, professional and academic qualifications, years of service post qualification and area of clinical practice.

## 4.4 The use of coding for the entire data set.

Coding is written about extensively (Wolcott, 1994; Rubin and Rubin, 1995; Coffey and Atkinson, 1996), but when considering coding and the subsequent emerging patterns within qualitative data analysis, Braun and Clarke (2013) identify two approaches. The authors identify the use of selective coding or complete coding (Braun and Clarke, 2013). In selective coding the data gathered is of a certain type, that is, it relates to a predetermined theoretical understanding. In this study I did not have a predetermined theoretical viewpoint. In exploring the experiences of a curriculum and the clinical impact on the student advanced nurse practitioner’s development and several of the medical supervisors who have supported them, the purpose was not to select data of a certain type to meet an agenda (Braun and Clarke, 2013). The difference with complete coding is that the entire data set, which is of interest or relevant to the research question, is coded. Complete coding is the approach adopted for this study. This approach is supported by comments made by Braun and Clarke (2013) when they refer to the codes as ‘building blocks’, which offers a sense of construction and development towards the emerging themes. This links with the comments previously made by Gary Thomas (2011, pg. 172) regarding the idea of ‘building blocks’ (Chapter 4, section 4.2) within a case study and allows the development of a structure for data management and analysis, that not only links with a qualitative approach, but fits with a methodology associated with case study.

The data generated through the interviews was provided by eleven participants, whose interviews ranged between thirty-five minutes to approximately an hour and a half in duration. Each transcription took approximately an hour for every ten minutes of recorded interview, with full transcription of all eleven interviews (nine student advanced nurse practitioners and two medical supervisors) taking approximately six months to complete. Interviews NI1-9 and DI 1-2 are included, but NIP, ‘Nurse Interview Pilot’, and DIP, ‘Doctor Interview Pilot’ did not form part of the data set, as this was undertaken within the pilot and ethical approval, at that time, did not permit use of this data for the main study. In addition, the Nurse Interview Pilot did not submit a diary. The submission of the diaries, as for the interviews, was purely voluntary and out of the nine student advanced nurse practitioners, six submitted their diaries electronically, one in a hard copy format and two chose not to submit them. A summary outlining the data set is provided in Chapter Three, section 3.12, Table. 4.

The combination of the semi-structured individual interviews and diaries offered a rich and unique data set. The diaries varied in size and apart from one entry a day during clinical activity, there was no prescriptive requirement attached to length or format of the diary, which as Thomas (2011) suggests, allows a freedom of expression particular to the student advanced nurse practitioner. Finlay (2008) identifies a good point in relation to reflective practice, in that it can mean different things to different people, from being a structured approach to thinking or reflecting upon oneself and practice, to a naval gazing exercise. Despite this, it was noted that the diaries on average ranged between15-20,000 words plus, each. These diaries therefore offered a method of collecting data and tracking emotional and experiential daily life relating to advanced practice, over a period of time (Braun and Clarke, 2013), which helped to provide further insight.

The choice to use diaries in relation to the research study is further supported by the views of Thomas (2016) who suggests that they offer a social reality experienced by the student, which could not necessarily be captured using interviews. The advantages to this approach are discussed by Schön (1983) in his description of the topology of professional landscapes. He proposes that often the high ground is dominated by the theorists and the researchers, whose ideas are taken as truths by both themselves and those practising the skills. The low ground is occupied by those delivering the skills, living the reality of their impact and in that reality creating theories of their own. Schön (2007) suggests that those in the low ground offer true insight into what matters to ordinary people and so the diary data of daily clinical activity offers a contrast to data captured within a ‘one off’ interview.

## 4.5 Realising the data set - managing data through a structured approach.

Managing the data collection and analysis is one of the challenges associated with any study, but as Miles and Huberman (1994) and Miles and Saldona (2014) point out, it is especially so of qualitative data. The sheer labour-intensive collection and analysis of data, the time demands associated with such an approach and the possibility of researcher bias can be overwhelming (Miles and Huberman, 1994; Miles and Saldona, 2014). These are some of the challenges faced when considering the management, analysis and interpretation of the qualitative data produced by this study. Interestingly, the daunting prospect of data analysis is not new. Coffey and Atkinson (1996) speak of its potential impact and whilst they acknowledge that ideally data analysis should be undertaken simultaneously with its collection, accumulation can occur. From the table provided in Table 4, it is clear that the data collection (interview dates) and analysis (transcription dates) were not simultaneous, and that transcription took time. What Coffey and Atkinson (1996) do make clear is that there is no single way to analyse qualitative data, but that it is important to consider ways of analysis that ensure that the data generates thought.

## 4.6 Planning the structured data management and analysis of the interview data.

As previously indicated, the data was collected over a period of six months, from May 2017 to November 2017. Transcription was completed in February 2018, but apart from the pilot, completed in April/May 2017, I had not carefully considered the transcripts and had merely accumulated the data, which easily occurs, and is a point raised by Coffey and Atkinson (1996). However, Miles and Huberman (1994) and Miles and Saldona (2014) highlight that qualitative data collected in the form of words is often collected over an extensive period, via methods such as observation or interview. As such, this type of data may require processing from field notes or transcription from interview recordings and therefore is not always immediately available. I note the comments made by Braun and Clarke (2013, pg. 68) that qualitative data can be difficult to keep ‘on track’. They cite recruitment issues, data collection taking longer than anticipated and transcription being time consuming, all of which I experienced, and which impacted on the general management of the data. Given such delays and consideration for how one might analyse such data, structuring and planning became an important process. Appendix 8 shows a photograph that documents the planning process, which led to the development of a method for data management and analysis. This idea came from reading the work of Thomas (2011) and Simons (2009) who have both written comprehensively about case study as a research method. When speaking on the subject about making sense of the data, Thomas (2011) refers to the concept of ‘theory as a glue’. Thomas (2011) argues that theory can support the connections or patterns seen within the data and help make sense of emerging ideas, by providing the connections, linking one part to another. This concept was utilised when devising a framework for managing and analysing the data and achieved through the use of relevant literature on qualitative data analysis (Huberman, 1994, 2014; Wolcott, 1994; Rubin and Rubin, 1995; Coffey and Atkinson, 1996; Silverman, 2001; Newby, 2004; Gibbs 2007; Braun and Clarke, 2013). The idea of identifying emerging patterns within the data set and considering their meaning in relation to the research question and related literature is supported by Braun and Clarke (2013). The Braun and Clarke (2013) framework was therefore my preferred analytical method as their concepts fit well with my chosen approach. Although this process also contributed to the time delay seen in the table in Table 4, it did allow valuable time for a period of reflection, which resulted in the development of the planned management process. Through using a form of concept mapping and model building, a plan to support data management and analysis was devised and the process, challenges and solutions identified (Appendix 8).

## 4.7 Developing a method of data management and analysis - a concept map/model.

Simons (2009) speaks of concept mapping as an activity which helps represent thoughts, understanding and knowledge in a visual way to make sense of the data. Adopting the principles of this idea helped consider how to analyse, code, categorise, theme and present the data set within this study. However, this is not strictly the purpose of concept mapping. Concept mapping is often used cognitively, but it can also capture the emotional aspects of data (Simons 2009). What concept mapping does offer is the visual representation of exploring the data via coding, categorising, theming and considering the interrelationship between them (Simons, 2009; Thomas, 2011). Perhaps a different way to consider the mapping concept in relation to developing a method of data management and analysis for this study, is to consider it as a model. The model idea is developed by taking the qualitative data captured from a social setting and constructing a model that incorporates ways in which it may be analysed. Denzin and Lincoln (2000) support this notion and suggest how the model may be used as a tool or a record of the studies development. This model or map, seen in Appendix 8, captured the data set and helped analyse how best to seek patterns, regularities, contrasts and irregularities (Wolcott, 1994; Coffey and Atkinson, 1996) taking into account data reduction (Miles and Huberman, 1994; Miles and Saldona 2014), whilst drawing upon the literature to support analysis of the data and presentation of the findings (Miles and Huberman, 1994; Miles and Saldona 2014; Wolcott, 1994; Rubin and Rubin, 1995; Coffey and Atkinson, 1996; Silverman, 2001; Newby, 2004; Gibbs, 2007; Braun and Clarke, 2013). Whilst Braun and Clarke (2013) were used as the chosen framework for data analysis, I include here reference to additional suggestions from theorists and critiques of the nuances related to qualitative data analysis.

## 4.8 Developing a strategy - using the conceptual map/model.

Miles and Huberman (1994) attempt to summarise features that they feel are often present in qualitative research. What they suggest is that qualitative research frequently engages with and reflects upon everyday life. The process is intense and often prolonged, capturing data from within the situation under study and offering an in-depth and sensitive understanding of the workings of everyday life as seen by others. The authors suggest qualitative researchers become the main measuring tool of this data, isolating occurrences and creating themes, whilst at pains to retain the data in its original state. In the use of case study, I am mindful of this point, but also that of Simons (2009) who regards the use of case study as educative. She suggests that this type of study is socially interactive, using the lived experience of the programme by individuals, which is influenced by many factors that subsequently affect both the individual and the case itself. This is an important point that is incorporated into the structure by which the data analysis for this study is managed, the aim being to extrapolate what the participants within the study make of their world, given the situation identified in the research question. Using this process, it is possible that varying interpretations can be made, but some will be more recurring than others and therefore more compelling (Miles and Huberman, 1994; Miles and Saldona 2014). This is essentially the process of thematic analysis described by Braun and Clarke (2013) utilised within this study. However, this is also where the idea of ‘theory as a glue’ comes into being as suggested by Thomas (2011 pp. 179), where all the pieces of the data set are connected somehow using theory. This process is not randomly arrived at, but rather developed through exploration of the literature associated with qualitative data analysis and developed into a structure to both manage and analyse the data set (Appendix 8).

Taking an overall approach of thematic analysis, the conceptual map/model identified in Appendix 8, firstly considered the transcripts. Thematic analysis of the interview transcripts, which for this study was based upon the work by Braun and Clarke (2013), but also as identified by Thomas (2011, 2016), involved listening to the interview audio recording, transcribing, reading the transcriptions, re-listening and generally immersing oneself in this particular data set, via the approach identified below.

## 4.9 Analysing the interview data transcripts - a structured approach.

The participants had been asked a set of six questions (Appendix 2) aimed at addressing the research question. Each question had probes attached, which are discussed in the methodology Chapter Three, but as suggested by Stake (1995), helps explore the participants answer and offer them the opportunity to give their personal story. Therefore, the coding began by analysing each of the questions, one to six, individually (Appendix 9) and the response to each question offered by the participants, who had been identified by a particular code (see section 4.3), noted. This allowed the data to be broken down into sections or segments for analysis (Coffey and Atkinson, 1996; Simons, 2009).

The interview data included both the audio recording and the transcription of that audio recording. During analysis, both forms of the data were used by actively listening to the recording, reading the transcript, following the transcript whilst listening to the recording and identifying sections of particular interest (Braun and Clarke, 2013). This process was repeated at least twice to allow for re-familiarisation and immersion with the data and to carefully listen to the words, inflections, pauses and expressions used (Miles and Huberman, 1994, 2014; Coffey and Atkinson, 1996), as the transcribed interviews reduce the spoken word to text only. This is a very involved approach, but one indicated by Coffey and Atkinson (1996) for its ability to offer a closeness to the data and allow for the data to be viewed from different angles, therefore providing a broad view (Simons, 2009; Thomas 2011, 2016). Coffey and Atkinson (1996) suggest that by listening for inflection within the voice, the pause to think, hesitation and laughter, which is also captured within the transcription, offers the listener an opportunity to hear how the participant actually responded to the question. I was also mindful of this point and the one raised by Kuckartz (2014), that this is an opportunity to recheck the transcription and amend sections, words or lost clarity that may have been missed at first transcription. This offered a real feeling of true interaction and connection with the data, a feeling of complete immersion in its richness as described by both Miles and Huberman (1994), Miles and Saldona(2014) and Coffey and Atkinson (1996) and a personal connection with the thoughts and experiences of the participants in relation to the research question. I feel giving time to relive the interview and hear the participants’ voices again was important, if, as Simons (2009) and Coffey and Atkinson (1996) highlight, time delays and data accumulation impact on the ability of the researcher to recall the nuances and intricacies of the interview. For this reason, the interviews, transcriptions and diaries were considered again to check the emerging themes.

## 4.10 Challenges to analysing the transcripts and diary data - the potential impact of the researcher.

The reaction of the participants to the semi-structured interview questions must be viewed in context. The participants interviewed were chosen as the case as they had knowledge of the subject, they were willing to talk about the subject and in the choice of interviewing both student and supervisors offered the potential for differing views and a balance (Rubin and Rubin, 1995). This point is raised in relation to hermeneutics, that is to say the way in which the text may be interpreted, translated and explained. The issue of hermeneutics is of significance if we consider the point raised by Simons (2009) on the subject of qualitative case study. Simons suggests that qualitative case study is often governed by the interpretive skill of the researcher, which is also influenced by their own personal experience. The point of my positionality in relation to this study is discussed in detail in Chapter 3, section 3.17, but is raised here to emphasise the potential impact of the researcher on the data management and analysis process. This influence must be acknowledged, as Thomas (2011) makes clear that both participant and researcher jointly construct the world they are exploring, together. Kuckartz (2014) raises this issue suggesting three points to consider when undertaking qualitative text analysis. What is suggested by Kuckartz (2014) is that researchers need to reflect upon their own preconceived ideas related to their research question and it is suggested they do so by considering the following:

* Ask, is the text unfamiliar and needs interpreting.
* Work through the whole text to gain a greater understanding, this will help with sections that may be unclear.
* When reading, consider where areas relate to the research question.

The research question is posed through personal knowledge of the subject, and this may mean that whilst interpretation of the text will not require translation, as I understand its meaning, I may already hold preconceived ideas about the question itself (Simons, 2009; Thomas, 2011; Kuckartz, 2014). This cautionary note is certainly one I have tried to be mindful of, but as Denzin and Lincoln (2000) point out, qualitative research is by its very nature inclusive of the researcher, placing them within the natural world they attempt to understand and make sense of, by using interpretive measures. This must be considered when viewing the presented data, understanding that it is generated from a ‘bottom up’ approach and not created from existing theory, but shaped by the participants, the researcher, the world they inhabit and the knowledge of that world that they hold (Braun and Clarke, 2013).

## 4.11 Organising the participant’s responses via the audio recordings, transcripts and diary data - coding the responses.

Working with the audio recordings, listening, then reading the transcripts and listening again, the participant’s stories are told and as indicated above, offering an opportunity for correction and accuracy (Kuckartz, 2014). Using the transcripts, highlighter pens were used to identify responses to the questions posed. This is just one of several ways researchers analyse and work with text (Simons, 2009; Thomas, 2011; Braun and Clarke, 2013; Kuckartz, 2014), to help note and mark important passages in relation to the research question. The interview data was considered against each question in this way and careful identification of text noted against how each participant responded. Responses to each question were placed on Postit Notes for each participant using their code (e.g., NI1, DI2), thus building a complete response to each question by each participant (Appendix 10) from which comparisons could be considered.

The responses were also coded, by using comparison within and between the participants (Coffey and Atkinson, 1996). This offered, what Simons (2009) refers to, as a systematic process of analysis, by breaking down the data into sections and comparing other sections of the data in order to create a more accurate understanding of the codes. Using the codes and section breakdown, patterns begin to emerge via a process of considering systematic relationships (Wolcott, 1994). These systematic relationships are, according to Wolcott (1994), patterns, regularities, contrasts, and irregularities that appear within the data set during analysis. Although the use of coding is a way to breakdown and analyse the data, it is also at the mercy of how one identifies or views that data and subsequently decides to code. This is discussed by Braun and Clarke (2013) when they refer to semantic and latent codes.

Semantic coding involves the use of data closely generated by the participant’s voice, whereas latent coding incorporates the knowledge and theoretical underpinning that allows the researcher to visualise particular things within the data. This point is raised as both semantic and latent approaches are utilised for analysing the data set belonging to this study. According to Braun and Clarke (2013), using both approaches is certainly possible and offers a deeper level of interpretive analysis. However, Braun and Clarke (2013) do identify that this will ultimately mean that two researchers would most likely code the same data differently. This I acknowledge, but as Simons (2009) suggests no matter how much the researcher attempts to select the participants voice, the values held by the researcher will without doubt influence what is selected as significant. However, case study researchers must have a firm understanding of the policies and theories that underpin the case itself, as they must make analytical judgments to initially identify the case and subsequently to interpret the information collected (Yin, 2009). The researcher is required to extrapolate meaning and make sense of the data (Denzin and Lincoln, 2003). Therefore, to address such issues effectively and transparently, analysis of the interview and diary data requires a structure to their thematic analysis to convey the meaning of the case (Simons, 2009). In order to achieve this, guidance offered by Charmaz (2003) was adopted. Charmaz (2003) suggests that the researcher should ask of the data, what is going on, what are the people doing, what is the person saying, what do these actions and statements take for granted, and how do structure and content serve to support, maintain, impact or change these actions or statements? This again was an involved process, one that incorporated mapping and structuring thoughts generated from the coding and data reduction (Miles and Huberman, 1994; Miles and Sladona 2014), but importantly as identified by Coffey and Atkinson (1996), without omitting data that fell outside of the coding process, as in single participant views that required equal consideration.

This identification of themes and patterns emerging from the data set (Braun and Clarke, 2013) is captured in the photograph in Appendix 11. Here, codes from the data, provided by the semi-structured interviews are explored and begin to emerge into possible categories and themes for a particular question. During this process questions were generated that challenge the codes and themes in relation to the research question. This rather reflective process is suggested by Charmaz (2003) and allows for a moment to consider what is actually occurring or being said. From this a form of concept mapping/model develops which can be seen in Appendix 8 and in a condensed version in Fig. 2. As Simons (2009) points out, in a case study a concept map may offer a form of analytical tool that helps identify, visualise and explore developing themes and related data.

Diagram

Description automatically generated

Fig. 2. A concept map/model showing the planning and management process of the data analysis.

## 4.12 Formalising the emerging interview and diary ‘visual’ data - the use of tables.

The data related to this study is text, the spoken or written word, collected via interviews and diaries. The analysis as indicated in sections 4.8-4.12, is involved, immersive, visual and graphic in nature. However, as suggested by Miles and Huberman (1994) and Miles and Saldona (2014) data needs to be made easily and readily accessible to the reader, so that it is clear to see what is occurring and conclusions or questions can be formed. Photographs provided within this study (Appendices 8-11) document the analytical process adopted for the management and analysis of the entire data set. This offers a visual record of the thematic analysis via graphic representation. To offer greater clarity, the coding process, categorisation and emerging themes of the data set were also tabled in a format adapted from the suggestions posed by Coffey and Atkinson (1996). The outcome of this method is captured in Table 8. which is a smaller representation of the larger table provided in Appendix 13, showing the influence of emerging codes from the interview and diary data on the formation of the categories.

|  |  |  |  |
| --- | --- | --- | --- |
| **QUESTIONS AND RESPONSES**  **The Analysis of the interview and diary data to create emerging codes, leading to the creation of categories**  “Can you tell me when you first thought about becoming an advanced practitioner?” | **EMERGING CODES**  **INTERVIEW DATA**  **PRIMARY SOURCE** | **EMERGING CODES**  **DIARY DATA**  **SECONDARY SOURCE** | **PATTERNS/RECURRENCES/ CONTRAST BETWEEN INTERVIEW AND DIARY DATA**  **CATEGORIES** |
| **Question 1**  “Can you tell me when you first thought about becoming an advanced practitioner?” |  | | |
| *“I’d been there since I’d possibly qualified, so* ***a good 10 years*** *and* ***I liked the hands-on patients care*** *and I enjoyed the Sister’s role and what came along with it but knew that* ***I didn’t want to go into higher management****” (NI9).* | Wishing to remain clinical and providing care for the patient | Care continuity and familiarity- enhancing patient care. | **CLINICAL PRACTICE**  **EXPERIENCE** |

Table 8. Development of the categories via analysis of the interview, diary data and emerging codes.

Further discussion related to this table can be found in Chapter Five sections 5.3 and 5.5.7, with the full table provided in Appendix 13. Miles and Huberman (1994) and Miles and Saldona (2014) support this approach and suggest that data display is additional to the data reduction (analysis) process and that deciding on how to present the table, titled columns and rows of narrative, form part of the analytical process. This I found very true in relation to the analysis of the transcripts, but also in relation to the diaries, although with a degree of adaptation, which will be discussed in section 4.14.

## 4.13 Analysis of the diary data.

The diary data was analysed through reading each individual diary (n=7), this approach, to some degree, mirrored that taken to examine the interview transcripts. However, the diaries were analysed in terms of the pattern of frequency between points raised by the participants in each diary, which were then tallied (Appendix 12). The process is described by Simons (2009) when referring to the generation of codes from the participant data, as a very ‘bottom up’ approach (Braun and Clarke, 2013), which has been adopted throughout the data management and analysis. Implementing this approach has allowed the placing of the language used within the diaries by the participants at the heart of the study, although I am well aware of the challenges this creates and which I have addressed earlier in this chapter (section, 4.10).

Each diary entry or activity, as described by the participants, was analysed and the diaries compared. The language provided by the participants was then used to create the descriptive codes (Simons, 2009). This process follows the same previously identified reasoning, in that the diaries are analysed to determine what was actually being said (Charmaz, 2003), seeking the identification of patterns and relationships (Wolcott, 1994; Thomas, 2009; Braun and Clarke, 2013) via comparing (Coffey and Atkinson, 1996) the diary entries of the participants. What the diaries provided was context to the data from the interviews, therefore they were a secondary rather than a primary source of data. This use of the diary entries and the interview data therefore offers a degree of triangulation.

Codes given to each participant within the interview data were maintained for the diary data (e.g., NI1, NI2). However, those working within primary care were identified by the colour green (NI7) and those in secondary care were identified in red (NI6) which denoted the difference in clinical environment. The descriptive codes were developed into a table that reflected statements, experiences and feelings recorded by the participant within the daily diary entries. These were then tallied in number of occurrences, against each individual participant. This approach used numbers in what is a qualitative study, but support for this is offered by Simons (2009) when she refers to the use of numbers in qualitative case study. It is, to some extent, about seeking patterns, but these patterns are related to frequency in the context of storytelling. What Simons (2009) suggests is that the storytelling can then be used to compare features or comparisons between people or groups. In this study the diaries are individual, but all regard day-to-day clinical practice; a form of storytelling; the diaries being kept as part of a module assessment that all the student advanced nurse practitioner participants undertook. The diaries on their own are interesting, but according to Thomas (2011) what forms the analytical process is considering the interconnections between them, how one experience compares or links to others and how these experiences form relationships and connections, creating codes, which subsequently reveal patterns that create categories and themes. Thus, comparisons have been made and occurrences tallied between the submitted diaries offering a numerical outcome. This manual thematic analysis process is captured in Appendix 12.

What can be seen across the table (Appendix 12) are areas of greater frequency and occurrence, which suggests some commonality between the diaries. Statements that have formed the descriptive codes, which are noted on the left of the table, occur more frequently despite the different clinical locations. The descriptive codes emerge from the diaries, they are created from statements by the participants that capture the overall experience expressed within the diaries. The language used is therefore the relationship between the participant and the development of the descriptive code, which subsequently supports the emerging categories which are created from both the interview and diary data (Simons, 2009; Thomas, 2011; Braun and Clarke, 2013). The analysis of the entire data set is depicted in the table in Appendix 13 and examined in Chapter Five sections 5.3 and 5.5.8.

## 4.14 Defining and naming emerging categories.

The final stage of thematic analysis is defining and naming themes (Thomas, 2011; Braun and Clarke; 2013). This overall method of thematic analysis adopted from the work by Braun and Clarke (2013), is also identified by Thomas (2011) in relation to case study. Thomas (2011) summarises the method as an interpretive enquiry, using data such as interviews and diaries which are subjected to constant repeated analysis, which in turn are compared to other aspects of the data, resulting in themes that summarise the findings across both data sets. The outcome of managing and analysing the data set is the emergence of overall themes, which are clearly defined through naming. Naming themes is considered by Braun and Clarke (2013) and offers the opportunity for creativity. However, the authors do advise that the theme(s) need to be analysed well and that the name must capture that analysis and reflect the essence of the process. The detail of this process is explored within Chapter Five where the findings related to the entire data set, the emerging codes, categories and the subsequent themes, are defined.

## 4.15 Conclusion.

This chapter has identified the process by which the interviews and diaries that form the data set for this study have been managed and analysed. This analysis and management have been principally guided by the work of Braun and Clarke (2013) relating to thematic analysis, but has been influenced, to a lesser degree, by other key authors on the subject of case study research, with particular reference to Simons (2009) and Thomas (2011), Yin (2009), Stake (1995) and Swanborn (2010). The process of coding, completed across the entire data set, has been detailed through the creation of a conceptual map/model (Fig. 2, section 4.11 and Appendix 8), from which the analytical process is defined. This interpretive approach helped create meaning, which was constructed through the participant’s voice, given a particular scenario, whilst identifying the researcher as an additional participant in this construction. The influence of the researcher is acknowledged in terms of positionality and the impact this may have on the subsequent data analysis. Although the influence of the researcher cannot be denied, it is acknowledged that the qualitative interpretations are constructed from text, notes and audio recordings, which are transformed by the researcher into interpretations, in an attempt to make sense of the data. By using the method of thematic analysis, the data has been interpreted and coded, via comparing and seeking patterns to identify categories, which summarise the essence of the data set. It is these codes, categories and the overall themes that will be explored in Chapter Five.

# CHAPTER 5 – Findings of the study- including a discussion of the outcome and significance of the data analysis.

## 5.1 Introduction.

This chapter will consider the findings that have emerged as a result of the data management and analysis described in Chapter Four. In Chapter Four the case was made for the use of thematic analysis, being the process by which the data set would be explored as defined by Braun and Clarke (2013). Individual interviews and diaries kept during clinical practice by the student advanced nurse practitioners as part of the programme, form the basis of this case study’s data set. They represent the experiences, thoughts, opinions and emotional views of the participants through the spoken and written word, providing insight into their journey and revealing a story (Denzin and Lincoln, 2000; Simons, 2009; Thomas, 2011). The interpretation of the participants responses to each question and their diaries allowed for the identification of codes, which provide units of meaning (Miles and Huberman, 1994; Miles and Saldona 2014) creating a transparency to the emerging categories and subsequent themes. In this chapter the emergence of the codes, categories and themes will be highlighted and discussed. Both the significance of the data analysis and the subsequent outcomes from undertaking this process will be explored. The emergence of the four themes, Confirmation, Clinical, Academia/Education and Reflection (see Figure 3. below) are revealed through an active process of pattern recognition and the organised consideration of the codes and categories in the formation of the themes (Braun and Clarke, 2013), which will support the discussion related to the development of educational models in Chapter 6. This chapter will therefore present a discussion of the data findings and combine these with the outcomes. This approach is supported by Thomas (2011) who suggests that in case studies the data analysis and discussion can often merge as the case is viewed holistically. In addition, this combined approach will help create the detail required for transparency.

Experience

Personal Qualities

Reflection

Fig. 3 A diagram to identify the link between the categories and the emerging themes.

## 5.2 Thematic analysis - providing the codes, categories, and themes.

Using an approach adopted from Braun and Clarkes (2013) worked example of coding by thematic analysis, both the interview and diary data provide findings that reflect the question posed by this study:

*What impact does a master’s curriculum, designed to support student advanced nurse practitioners educational and clinical needs, have on their professional development?*

The semi-structured interview schedule (Appendix 2) aimed to investigate the question through the use of open-ended questions and probing enquiry. The diary data, on the other hand, sought to explore the day-to-day clinical activity of student advanced nurse practitioners, offering a non-structured and more linear approach to the perception of their world in context. Combining both data sets created a comparison between a reflective approach to structured questions and reflection upon the lived experience of student advanced nurse practitioners.

The following offers insight into the findings of the analysis, creating a transparency that demonstrates how the codes relate to the original data, whilst revealing overlaps, which as Braun and Clarke (2013) suggest is inevitable. The outcome of this chapter is the demonstration of codes, categories and themes that identify ideas, issues and challenges which have emerged from the data set. It is not possible to portray every comment from the interviews nor every diary entry made. What is possible is to show evidence from the data set of how codes and categories were developed and explore how they have impacted on the development of the themes. Considering this, the interviews are responses to a conversation which is centred around a semi-structured interview schedule and occurred face to face. Therefore, the participants responses and voice are utilised and quoted verbatim. In terms of the diaries, the data was provided via a predesigned template (Appendix 14), which formed part of the module the participants were studying. As this was retrospective data (Thomas, 2011), the data analysis for the diaries was more about the language used by the participants and therefore the frequency of that language has been extrapolated in the context of storytelling and development of the codes (Simons, 2009). This approach is in keeping with the suggestions by both Simons (2009) and Yin (2009), who identify that the evidence should be sufficient to allow the reader to form an independent opinion regarding the merits of the analysis, interpretation and findings. Adopting this approach will support the following discussion.

## 5.3 Merging the data - coding and categorising to create the findings.

The findings from the data set were arrived at by adapting a process described by Wolcott (1994) which requires the identification of systematic relationships within the data, evidence of regularities, irregularities and contrasts (see section 4.11). This approach was adopted across the entire data set providing complete coding (Braun and Clarke, 2013 discussed in Chapter Four, section 4.4) which allowed for construction of the emerging themes by processing, coding and categorising the data set. verification. This data analysis and reduction is discussed in Chapter 4 and depicted in the photographs in Appendices 9 to 11, which display the manual process. Coding provides part of the data reduction process (Denzin and Lincoln, 1998) by tagging or labelling units of meaning, which are usually attached to sections of varying sized words, phrases, sentences or even whole paragraphs (Miles and Huberman, 1994), which can be seen in the diary and interview data in Appendix 12 and 13. These words are choices which are made based on their significance in the given context (Miles and Huberman, 1994), in this case relating to the study question. Appendix 13 offers this detail and shows the emerging codes created from both the interview transcripts and the language taken from the diary data, from which the categories are derived. Appendix 13 also provides greater transparency, as it captures more of the spoken word from the interviews with the addition of the location of the participant, those residing in primary care being distinguished by the colour green and those in secondary care indicated in red (Appendix 13). The table in Appendix 12 has been created by analysing documents capturing experience in the written word (the diaries), which have been analysed for issues and recurring occurrences that have then been isolated, counted and interpreted (Denzin and Lincoln, 1998). What this analysis in Appendix 12 provides is provision of codes related to the diary data, which is then analysed for the emergence of patterns between the diary data and analysed interview data in Appendix 13.

Codes change and develop, as seen in Appendices 9 to11, as they are checked against the interview transcripts, recordings and diaries for patterns and occurrences, thus creating the ability to categorise. This method follows the suggested seven steps identified by Braun and Clarke (2013) which following transcription, reading and familiarisation with the data set, requires coding, searching for themes, reviewing those themes, defining and naming themes and finalising the analysis. This was the overall structure for the analysis of the data set emerging from this study. This process of data analysis, data reduction, data display and conclusion (Miles and Huberman, 1998; Miles and Saldona, 2014) provided a structure for the generation of the identified codes and categories (Appendices 12 and 13) from the data. Using the language and context of the participants helped to emphasise that the categories are grounded in the data and not solely created by the researcher (Simons, 2009). The emerging themes (see Fig. 3, section 5.1) result from the above process and are mapped to the categories arising from the data analysis, reduction and display (Appendices 12 and 13), which are discussed in sections 5.4 to 5.5.8.

## 5.4 Developing the categories.

Scrutiny of the participant’s voice and the words they choose to describe their experience and feelings provides evidence to support the emerging categories which are identified in Appendix 13 and listed in Table 9 below.

|  |
| --- |
| **CATEGORIES** |
| **Clinical Practice, Experience, Personal Qualities, Frustration, Academia, Equality and Acceptance, Autonomy, Reflection Expectations, Continued Professional Development, Confidence, Role Identity/definition, Clinical Supervision, Confirmation, Time, Role as Educator, Communication, Knowledge.** |

Table 9. A list of the emerging categories from the interview and diary codes.

Looking for regularities, relationships and contrasts between the codes from the interview and diary data, (Appendix 13), provided the development of the categories seen in Table 9. The categories are explored (via the discussion in sections 5.5 to 5.5.8), which is enhanced by the provision of the interview and diary data. Exploring the categories and their relationship to the data set coding will offer transparency to the emergence of the themes (Fig 3, section 5.1), which are discussed in subsequent sections of this chapter.

## 5.5 Introduction to the main exploration of the categories.

The development of the categories occurred via the structured data analysis and reduction of the data set. Early coding as seen in Appendices 9 to 11 helped to interpret the data and begin to summarise segments (Punch, 2005). Further analysis sought patterns and occurrences between the codes that could be checked against the data set, and which facilitated the pulling together of the data into meaningful categories (Punch, 2005). What this process created was several emerging categories from a number of codes (see Table 9 and Appendix 13). Debate exists as to how many codes can be attached to a piece of data with numbers varying between 50 to 300 (Elliot, 2018). Elliot (2018) suggests that there are those who indicate that using different codes within the same piece of data may be useful at highlighting patterns, but that it can also indicate an issue with the coding system. Creswell (2015) does offer some clarity indicating that he prefers to code all the data, often creating around 30 to 50 codes, then considers the overlaps and redundant codes, reducing to approximately 20 categories, which he collapses further to create 5 to 7 themes. This approach by Creswell (2015) is one that I have adopted within my own study as seen in Appendices 9 to 11 and 12 and 13. The following reflects this approach and accounts for the number of categories discussed in sections 5.5.1 to 5.5.8.

## 5.5.1Establishing the categories through the participants’ voice - considering the categories:Clinical Practice, Experience and Frustration.

Remaining in clinical practice and using their expertise and experience to provide full and complete care to their patients was very important to the participating student advanced nurse practitioners. There was a sense that aspiring to become a student advanced nurse practitioner was born from feelings of frustration; of being at a crossroads in their professional life, of wishing to remain clinical and close to providing care for the patient and of not wanting to seek managerial positions. These sentiments are echoed in the following extract from the interview data, but can also be found in the diary data in the form of entries referring to continuity of care and familiarity with patients and their families to enhance their experience:

*“I was thinking, I’d done a lot, I’d developed a lot with the role (current role), but actually I’m looking for something else and I was missing clinical work” (NI8)*

Some student advanced nurse practitioners participants spoke of their desire to be of greater use and felt they had a lot of experience, which could be enhanced to offer a complete cycle of care to patients and families. The following extract supports this assertion, that they could make a difference and that they appear frustrated at not being able to do so:

*“I didn’t think I was doing anything productive for the patient and felt I wanted to go back to be more hands-on, I wanted to do something more, like I could feel like I was making a difference when I go home at night” (NI9)*

## 5.5.2 Considering the categories: Autonomous, Equality, and Role Identity.

The participants’ voices provide evidence that they were ready to become autonomous in their practice. This is supported by national policies and political/ professional drivers who have long been an advocate of such a move. This was also found in the diaries in the form of feeling appreciated through the feedback they received from using their skills and practicing more autonomously:

*“I was looking for something whereby I could work autonomously, work in clinical practice and work to an advanced level” (NI8)*

*“just with all the changes, all the sort of…it’s obviously all the changes to the junior doctors, the service need, there is obviously more patients there” (NI9)*

There is a definite focus upon clinical practice, a distinct need to make a difference and to address the requirements of increasing demands on service provision. There is a recognition that to practice at an advanced level requires the ability to work autonomously and that the time is right for such developments, which is noted by participant NI9 in reference to the European Working Time Directives and the changes to junior doctors’ hours.

However, within the literature there is also a sense of frustration in relation to the role, that it remains ill defined, poorly understood and lacking in equality and acceptance. This has been identified by a number of authors which include Woods (1997), Furlong and Smith (2005) and as recent as Bench *et al.* (2018), who all recognise the lack of clarity regarding the role, the plethora of titles surrounding advanced practice and the general requirement for the title to be protected. This frustration is noted within this study and was expressed in the following way:

“*We don’t really know what you’re doing, we don’t really know what you can, and you can’t do and that was the same throughout……for the whole multi-disciplinary team” (NI9)*

In the above extract taken from the interview data, the participant expresses a degree of frustration towards those working alongside advanced clinical practitioners, which is caused by the multi-disciplinary team not being fully versed with what an advanced nurse practitioner could offer. This issue relating to clarity of the role and identity, as seen in the interview data extracts below, is echoed by other participants and also by the medical supervisors, therefore it emerges as a category:

*“because the role is so different, it’s not nursing anymore and I think people aren’t identifying and I think there lies the struggle, cause what are they?” (NI8)*

*“have a better understanding of well, actually is this what they can do, I think when patients and clinicians, who aren’t familiar and become more familiar and have a better understanding, then I think there will be a greater willingness to invest more to underpinning that learning that’s required to develop a person” (NI7)*

*“I think even though it’s been going for years, it’s still a new role and it’s still not generally accepted in some areas, so I think it’s kind of for us to prove, not prove our worth, but to prove we can move forward… I think for it to move forward it must have a proper definition that everyone can associate to” (NI4)*

*“and there is some confusion around competencies with the role and the Royal College, which I think needs clarity…. There needs to be more clarity, we do have some ACP’s working at band 5 and some at a band 7, which also seem wholly unfair” (DI1)*

The issue of role identity and clarity of professional responsibility is found not just in this study, but in work by several authors writing on the subject of curricula design related to advanced clinical practitioner development and preparedness. Challenges to identity are noted by both Morgan *et al.* (2012) and Dover *et al.* (2019). There is also the issue of recognition of the role, which is identified by Bench *et al.* (2018) and the fact that in the UK it has remained unregulated (Dover, *et al.* 2019) for several years.

Role identity, clarity and the expectation of what an advanced nurse practitioner can do are important to the student advanced nurse practitioner participants within this study, and also for the medical supervisors to avoid confusion. Feelings of frustration are also indicated in the diaries, which point to a lack of understanding regarding the advanced nurse practice role, in the form of patients requesting to see a doctor and not an advanced nurse practitioner, and challenges to their ability to determine care.

## 5.5.3 Considering the category: Expectations.

Although clinical is identified as a category there appear varying aspects to it. The interview data provided by the student advanced nurse practitioners spoke of the clinical needs of the practice area and the clinical roles in relation to their ability, identity and usefulness. This point is raised in the literature by Dover *et al.* (2019) in their discussion regarding educational preparedness of advanced clinical practitioners. Through the use of a detailed literature review, the authors speak of the need for both clinical and theoretical components to be included within a curriculum devised to support advanced clinical practice, but that this be complemented and supported within clinical practice by appropriate supervision.

The points raised by Dover *et al.* (2019) echo within the next extract taken from the interview data within this study, which suggests frustration, a lack of clarity regarding the advanced practice role and uncertainty about its application and development in clinical practice:

*“Oh, where’s the boundaries we don’t really know what you’re doing with the role…. It’s a lot of doing what you’re doing and people seeing what you can do with the role and having confidence in you, because it’s development” (NI9)*

These issues are again supported through the emerging codes created from the diary data (see Appendices 12). The diary entries provide evidence of using effective communication to develop relationships with patients and colleagues. This level of communication provides support for the student advanced nurse practitioner to become visible to those around them, as the interview entry above suggests ‘people seeing what you are doing with the role’. These types of statements are also supported by the diary entries that relate to ‘being seen to take the initiative’ and ‘seeing what needs doing and acting on it’, which clearly identifies advanced nurse practitioners taking the initiative to define and apply the level of clinical practice they can offer.

Although these appear positive traits to developing confidence and establishing the role and expectation of the advanced nurse practitioner, there are challenges to this progression. There is evidence from the diary data of hostility towards ‘decisions made by advanced nurse practitioners’ within clinical practice, ‘by both staff and patients. From the interview extract below there is the suggestion this may be as a reaction to a perceived threat that the advanced nurse practitioner presents:

*“I think some medics feel very threatened by us, that might just be the fact that they lack the knowledge of who we are and why we’re here, the reason why, how we can support the workforce, because it’s not about taking over or replacing doctors” (NI8)*

Again, this experience is also noted within the diary entries, which identify challenges to decisions relating to management of care made by advanced nurse practitioners, by both patients and fellow doctors.

These commonalities between the interview and diary data forge categories related to seeking equality and acceptance, working autonomously and providing timely care to patients and their families (see Table 8, Chapter 4 section 4.12 and Appendix 13), which is also highlighted in the literature by Brown and Draye (2003). This U.S study considered the experiences of what they referred to as ‘pioneer nurse practitioners’ who were establishing advanced practice roles. This qualitative study using grounded theory recruited veteran nurse practitioners to explore their experiences of establishing advanced practice roles through interviews and focus groups. What is interesting is that the results from Brown and Draye’s study are not dissimilar to the experiences portrayed in this study. Brown and Draye (2003) identify the experiences of meeting resistance, being undermined, establishing credibility, exploring unchartered territory, making a difference and other experiences that they cite as stages in advancing autonomy. These experiences resonate within this study and are evident in the extracts from the interview data discussed thus far. Overall, there appears to be an impact on the expectations of the student advanced nurse practitioners, although their confidence is affected by other influences as seen in section 5.5.4.

## 5.5.4 Considering the categories: Academia, Confidence, Knowledge, Acceptance, Personal Qualities.

This study also provides evidence of the student advanced nurse practitioners readying themselves for the role of advanced nurse practitioner within clinical practice. They referred to the confidence their academic studies gave them, which paved the way and allowed them to develop knowledge that enhanced their skills, as the following interview excerpt suggests:

*“it sort of underpins what you’re doing in practice, and I think that’s what you want to get out of a master’s degree, you want it to make you prepared to go into your workplace, it’s got to be reliable, and it gives you that underpinning confidence really” (NI9)*

This evidence from the interview data is not always shared within the diaries and contrasting codes emerge that paint a different picture. There are diary entries relating to feelings of inadequacy in both skills and knowledge. However, there are others that relate to the use of reflection upon practice to recognise ‘knowledge gaps’ through which they can update themselves.

There is certainly a suggestion from the interview data for the need to be equipped with the knowledge and skills to underpin practice, which the following interview excerpt suggests.

*“and you’ve got a bit of insight when you go and see the patients and you pull all the past experience together and that’s when you come to the conclusion what you’re going to do” (NI2).*

There is also evidence of this need within the diary data, with entries relating to the provision of education to patients and their families. In total 116 diary entries relate to this subject, especially within primary care (see Appendix 12). According to the NHS Long Term Plan (2019) general practice faces rising patient need and complexity, which may answer the frequency of diary entries related to patients and their family’s seeking information and support. It is also the case that general practice is seen as the foundation on which NHS care is based (Addicott and Ham, 2014) and may account for the numbers accessing such a service. The role of the advanced clinical practitioner within primary care may therefore offer patients more immediate access to their health care needs, providing a diagnosis, a plan of care, referral and prescribing where appropriate (Stones, 2019). This may offer an explanation for the higher number of diary entries related to the subject of patient and family’s health education, as opposed to the entries seen within secondary care.

In addition, reference is made to academic programmes being ‘reliable’ and being able to ‘make you ‘prepared’ to go into the workplace as seen in the following exerts taken from the interview data.

*“I think that I work better when there is structure, structure helps with motivation, yes definitely for me” (NI8)*

*“personally, I like structure I would have liked to do the clinical aspect courses first, purely because I learn hands on and reflecting upon it” (NI1)*

These issues were also identified in the literature by Furlong and Smith (2005), when they referred to the need for educationalists to design advanced practice programmes that addressed the level of competence needed for advanced clinical practice. As indicated in Chapter Four, competencies have been acknowledged that support advanced practice education (HEE, 2017), but although academia and competencies appear to underpin clinical practice, it also seems to have its limitations, as the following student advanced nurse practitioner participant within this study indicates:

*“Yep, anyone can pick up a book, but its understanding and putting it into practice” (NI1)*

This ‘putting it into practice’ requires careful consideration and a level of clinical support, which is needed and appreciated by the advanced nurse practitioners interviewed for this study, as seen in the interview extract below.

*“so it’s like you say, you’re trying to meet the needs, the academic needs and then try to sort of get the practitioner to fill in the clinical bits, as well as tie it all together” (NI3)*

This sense of ‘tying it all together’ is reiterated within the diaries from this study, with entries relating to the opportunity for ‘clinical meetings and ‘discussion’ and ‘positive feedback’ related to ‘clinical practice and skill’. However, there is also recognition of capability and competence and when this has become exhausted requiring the need for referral. This is noted within the diaries, with 42 entries identifying the need to refer on when the knowledge and skill of the student advanced nurse practitioner had become exhausted (see Appendix 12), this appeared especially challenging in primary care and may in some way be accounted for by the reasons given above and could also be the subject of further study. The reference to recognising ‘gaps in knowledge’ equated to 37 diary entries across both primary and secondary care, which can be seen in Appendix 12.

In relation to academia, the perspective offered by the medical supervisor participants within this study offers a different view. Although supporting the student advanced nurse practitioner, they appear to have the benefit of looking in on the situation and therefore unlike the student, not having the burden of being part of actual academic assessment and personal development requirements of the curriculum. Their responses are an interesting aspect of this study, as they offer a comparison to medical education and its potential relationship to the development of advanced nurse practitioners.

*[student advanced nurse practitioners’ education] “I think it’s from the way I have seen them approach it, it’s very much more ‘today I’m going to focus on the cardiac system’ and it’s very systems based rather than patient based and holistically based… I think that at that point their breadth of experience isn’t wide enough, I don’t think the course quite prepares them for that” (DI1)*

This comment has some relationship to the General Medical Council (GMC, 2015) document entitled Promoting Excellence, Standards for Education and Training. This publication identifies the educational and training requirements of medical students and junior doctors. What is clear is that the educational curricula must prepare the trainee doctors for early patient contact, with experience of a range of specialities that allows for learning through clinical science, which links theory with practice and a development in knowledge of the diverse social needs of the population. This appears to relate to the fundamentals of medical practice however, many of the comments within the GMC (2015) document focus upon an undergraduate curriculum. This observation may reflect the remarks made by one of the medical supervisor participants within this study, when considering the trainee advanced nurse practitioner curriculum.

“*I think you are trying to fit a square peg into a round hole in some ways, but then making it very individualised it can make the goal posts a little bit woolly…..I think it is really difficult to get it right… the vast majority of GP registrars have had a much more uniform experience, they have all done the same degree, they have all done the same house jobs, whereas advanced practitioners who have come from nursing backgrounds, their experience is vastly different” (DI2)*

Arguably what is different here is that student advanced nurse practitioners are already experienced within their own profession. This is true of any trainee advanced clinical practitioner and so their undergraduate education will reflect their professional discipline. This point is acknowledged by Health Education England (2017) when they refer to the advanced practice framework for England and its reference to health care professionals demonstrating their capabilities in different ways, depending on their professional background and scope of practice. What is clear from both the GMC (2015) and the HEE (2017) is that medical staff and trainee advanced nurse practitioners should be supported to develop skills and knowledge to match population need and be capable and competent to do so. This is echoed by the student advanced nurse practitioner participants within this study, who speak of the opportunity to study and develop their clinical skills and the benefit that academia has offered them. However, they also refer to the challenges of designing a curriculum to meet the diverse needs of all advanced clinical practitioners.

*“I have really felt the benefit of the academia, the skills I’ve acquired is a result of it, the practical skills. I have seen it as a real opportunity, to really read more widely, reflect, it’s hard to describe, but I found it a huge opportunity” (NI7)*

*“I think it’s difficult because you’ve got a varying audience… I think that’s difficult from an educational side to tailor to everybody’s needs” (NI3)*

From the interview data associated with this study, there was also the mention of policies that influenced the development of the student advanced nurse practitioner participants and a degree of confusion as to how they should be considered in relation to personal progression and competency. The competency document mentioned in the interview data below, originates from The Royal College of Emergency Medicine (RCEM, 2015), who devised a curriculum based on competencies aligned to commonly presenting conditions in emergency departments and the skills and knowledge required to treat them. Version one was released in 2015 with version two emerging in 2017. These were followed by the General Practice Advanced Nurse Practitioner competencies in 2015, which was produced by the Royal College of General Practitioners. Both competency documents were endorsed by the Royal College of Nursing, who produced their own Advanced Level Nursing Practice Competencies the latest being in 2018. With the Multi-professional Framework for Advanced Practice in England released by HEE (2017), competencies surrounding the four pillars of advanced practice, clinical, education, leadership and research, dominate curriculum design. However, which competencies are regarded as core and which are seen as related to specialty has some impact on the student advanced nurse practitioners’ experiences and responses, as can be seen by the following interview extract from this study.

*“I think there should be a baseline… RCEM, if it does become regulated, the NMC as a recognised area, you do need clinical assessment and managing medical conditions, and you do need the prescribing and you do need research and others… I don’t know if it was a requirement of my role or whether it would be worthwhile towards my role, so yeah there is a bit of ambiguity around which courses you do actually take other than those specified” (NI1)*

One medical supervisor within this study offered their view in relation to academia, but found the experience confusing and unclear, despite the afore mentioned governing policies, their thoughts on the subject can be seen in the interview extract below.

*“I think certainly I would model it more on the medical… you may have your ACP basic training, but then I think you should go out and specialise….. it’s not clear at what point a trainee can be an autonomous practitioner either, which has confused me” (DI1)*

Whilst both student advanced practitioner participants and the medical supervisors within this study spoke of academia, the student advanced nurse practitioner participants also raised the issue of acceptance and a sense of equality as being important in the development of advanced practice. One participant spoke of feeling accepted by the medical staff by being included in their national medical conference for the first time.

*“I’ve been recently to a medical conference… that was really nice because it obviously meant that the profession were more accepting of us now and wanting us to be involved in their education and how they become educated, rather than us being a separate identity to them” (NI4)*

This sense of belonging is also identified by Illingworth *et al.* (2013) when the authors explored student’s experiences of educational preparation for advanced nursing roles in the community. One suggestion the authors made was that identity and a sense of belonging appeared more important than the development of skills and information. In addition to a sense of identity was the need for key personal traits amongst trainee advanced nurse practitioners. These were spoken of by the student advanced nurse practitioner participants within this study and are noted within the following interview extracts.

*“The university gives you direction, but you must be motivated to do that” (NI4)*

*“someone who is quite an experienced nurse…also got some leadership qualities because you need to be able to work well within a team” (NI3)*

I have singled out the word ‘experience’ which was referred to by both student advanced nurse practitioners and the medical supervisors within this study, and links with personal qualities that one medical supervisor comments on below.

*“there is no substitute for experience, because all theoretical stuff is all well and good, but you’ve got to get used to making decisions, you’ve got to get used to you and the patient and nobody else and this patient has to leave this room with a plan, even if the plan is ‘I don’t know what to do’, that is the plan, you have got to make a plan” (DI2)*

Although emphasis is placed on experience by both the student advanced nurse practitioner and the medical supervisor, exactly what this is and for how long is unclear. The Nursing and Midwifery Council (NMC) produced a document in the 1990’s, which is still relevant toady having been updated. The document entitled Standards for Specialist Education and Practice, which was last updated in March 2016, in reference to time served stipulated in section 9.2, that nurses should have completed a period of experience over a sufficient length of time to consolidate pre-registration outcomes, which would allow for deeper meaning. The NMC have since revealed that they intend to review advanced practice and during 2020 will consider if new post-registration standards should be incorporated into advanced practice frameworks. Although this work is underway, further consultation has been called for (NMC, 2021). It is hoped that when the standards for Specialist Community Public Health Nursing (SCPHN) and Specialist Practice Qualifications (SPQs) are completed, they will provide the practitioners with the capabilities for dealing with the rapidly changing complexity of service need and will feed into the NMC review of advanced practice.

## 5.5.5 Considering the categories: Clinical Supervision, Confirmation.

Supporting the development of student advanced practitioners was another key point raised by the participants within this study. There has been previous mention of realising the value of support within clinical practice, but here three participant trainee advanced nurse practitioners identify who may provide this support and the quality required.

*“it’s definitely having people interested in you, in the willingness to teach you, train you and supervise what you’re doing, to then be able to work in an autonomous role, I think that clinical supervision is a big thing and then obviously the education to back it up” (NI9)*

“*it’s important to have that mentor that has a full understanding of what being a mentor entails, some proper clinical supervision, I would have liked more clinical supervision, say for example when you’re trying to imbed those clinical skills” (NI7)*

*“I think it also depends who your mentor is and who you spend a lot of time working with… but she won’t tell me the answer she’ll say’ you need to go and look at it from this point of view’ or next time we have a meeting feedback to me, like a CBD, feedback back to me on why that happened” (NI4)*

These sentiments are also noted within the diary entries which form part of this study. Numerous entries relate to seeking confirmation of decision making, which in turn supported the development of confidence. The frequency with which the student advanced nurse practitioners spoke of seeking guarantees and reassurance is noted in Appendix 12, with 104 counts of its suggestion within the diary data, within a range of 1-29. There are also references to student advanced nurse practitioners seeking assurance of progression through engaging with supervisory feedback and learning through role models provided through the medical staff. In all instances the ‘mentor’ identified by the trainee advanced nurse practitioner participants was a medical doctor and so the view offered by one of the medical supervisor participants from this study in relation to clinical supervision is of significance.

*“I think it is really important that advanced practitioners during the development phase have the appropriate amount of support, mentoring and debrief, such that they are developing confidence in clinical skills and the ability to work increasingly independently” (DI2)*

Mentoring and clinical supervision are both used interchangeably within the interview extracts and the discussion, but they have subtle differences which are discussed in detail in Chapter 6 section 6.12. According to McCray and Cooper (2015), mentoring is associated with seeking out guidance from someone deemed to have greater knowledge and experience to help support someone who has less experience. The difference with clinical supervision is that it is multifaceted. Driscoll (2007) refers to clinical supervision as being variable in nature. The authors suggest that whilst it can be planned as in professional development and guidance, it may also be informal, which would include team meetings and peer review or situational, delivered at point of need in reaction to an event. In this study the previous extracts refer to the student advanced nurse practitioner being supported in relation to clinical practice or via an event which has occurred within clinical practice, and so although mentoring forms part of the support required for advanced clinical practice development, clinical supervision within the clinical environment also appears, highlighting the point made by Driscoll (2007) that the approach is variable.

The influence and support offered and received by clinical supervision is also noted within the literature. Furlong and Smith (2005) referred to the importance of educational programmes providing not just competency-based curricula, but also support by specialist clinical supervisors that was reinforced by a relationship of cooperation between clinical providers and universities. Crathern *et al.* (2016 pg. 7) highlighted the importance of a combination of theory and practice in order to ‘keep it real’ suggesting that relating theory to practice encourages critical thinking. The authors also considered the role of simulation in providing a safe environment for skill development with peers, that was further supported by debrief to enhance learning (Crathern, *et al.* 2016). There is certainly evidence within the literature that a curriculum designed to support advanced practice must have a strongly supported clinical element, provided by suitable supervisors and mentors (Dover, *et al.* 2019), who must in turn be adequately supported to provide effective clinical guidance. It is clear from the findings within my study that clinical supervisors need to have an understanding of the requirements of student advanced nurse practitioners’ clinical development, and how this is facilitated through the academic curricula. This is supported by the extract below taken from the interview data.

*“getting access to clinical supervisors, so that they know it’s not just what you’re doing on the wards, it’s the role…. They don’t really know what we do within the masters that makes us good practitioners…. They obviously will see and assess us on the wards, but it’s quite separate so they don’t know what we’re really doing within the master’s” (NI9)*

This concept of adequate support is further identified by Sharrock, Javen and McDonald (2012) in their paper Clinical Supervision for Transition to Advanced Practice. The authors advocate that adopting a conceptional framework for clinical supervision, which will allow and support the supervisor to understand the needs of the supervisee, will help with what is often a complex transitional process in the development towards advanced clinical practice. Recent work undertaken by Dr Deborah Harding, which has been developed by HEE (2020), provides guidance for workplace supervision to support advanced clinical practitioners with their development needs, helping to ensure the capability and competence of the practitioner. From the data emerging from my study, it would certainly appear that this is the case and the models depicted in Chapter Six address the importance of clinical supervision and its place and application within advanced clinical practice education.

## 5.5.6 Considering categories: Reflection, Communication, Expectation of clinical and academic provision.

The student advanced nurse practitioner participants within this study spoke of reflection in a broad sense; that is to say, when they considered the question of what is important in the development of advanced nurse practitioners, they offered the following ‘reflective’ view, which again has a relationship with the other categories:

*“I have to think to myself every day, what have I learnt today, what could have I done different today? Those sorts of things and then you think, well yeah, there’s actually quite a few different things” (NI3)*

There is also evidence within the diary entries of engaging with reflective practice to take time to consider management and treatment issues. The number of entries within the diaries relating to reflection and reflective practice is seen in Appendix 12 and equates to 80 such comments by the student advanced nurse practitioners. However, there is a noted range of 0-51 in relation to reflection, suggesting a variability in its use. One answer to this may be the challenge of time and the ability to afford a space for reflective practice, which may account for the range. However, Jarvis, Holford and Griffin (1998) indicate that professionals in practice tend to think on their feet and that skills are developed from an unstructured reflection, with reflective learning being seen as a more sophisticated approach. This suggests that reflection may take a number of forms, both structured and of the moment. This concept is supported via a comment made by one of the student advanced nurse practitioner participants during their interview.

*“especially this last year, you’re focused to reflect a lot on your clinical practice and then take things out of your clinical practice and look at them more, use some of that lateral thinking, getting you used to critically thinking about your practice, why you do this” (NI4)*

This is supported by Schön (1983) who refers to reflection in action and reflection on action, which is discussed further in Chapter 6, section 6.8.4 and influences the development of the ART model seen in Fig. 5 Chapter 6, section 6.7. As Quinn (1995) points out, reflection is about processing information, which is also noted in the diary entries when referring to the use of careful consideration and taking care to check the results of investigations and considering the decision-making process.

Reflection was also identified in the literature as a key requirement in supporting student advanced clinical practitioners to achieve success (Crathern, *et al.,* 2016). Craythern *et al.* (2016) discussed developing an advanced neonatal practitioner programme and considered its construction from both a service and educational perspective. They identified a range of assessments to help develop the trainees, one being that of reflection in the form of skills logs, case studies, reflective workshops and the use of simulation and debrief. However, within the diary entries related to my study there is some limited recognition of feedback gained from simulation activities. Within both sets of data relating to this study, simulation is mentioned infrequently and yet this occurs in the form of Objective Structured Clinical Examinations (OSCEs) within the curriculum and simulation events provided by the employers for the student advanced nurse practitioner participants, to help support the development of clinical skills. This is an area of further investigation which I am currently undertaking as a result of this study.

What emerges from my study is a firm focus on clinical development, but acknowledgement of the role academia plays in supporting this progress and its impact on skill and knowledge. What I suggest from the findings is that there is a requirement to place the knowledge in context and that this context is provided by the clinical setting but requires a structured support mechanism for this to be meaningful. This suggestion is reinforced by three of the student advanced nurse practitioner participants and one of the medical supervisors participating in this study, who offered their opinion regarding classroom teaching and links with the University to underpin clinical practice, with the potential to use simulation:

“*good links with the university I think is really, really important, having that deep understanding of investigations and disease process… things like ‘OK your bleep goes off and you’ve been called to a patient who is hypotensive, that’s real life, what would you do, what are the questions you are going to ask? Having some simulation like that would be brilliant” (NI6)*

*…ACP’s should know normal values, so they learn that from the academic side and then experience it through the clinical side (NI3)*

*“what you’re doing in the essay is demonstrating that you’ve got the knowledge of chest pain, you now need to be watched assessing chest pain, so that you can apply the knowledge to practice and that’s a well triangulated portfolio” (NI6)*

*“although you know classroom teaching is fabulous and it can teach you black and white, but what you need is more than that…..I think there is a lot of tunnel vison early on depending where they come from” (DI1)*

Therefore, to place the learning in context any use of simulation, whilst potentially helpful, is not at the forefront of developing advanced nurse practitioners, and theory is helpful in skill development, but may not be entirely achieved in the classroom. However, within my study one of the student advanced nurse practitioner participants suggested that they use many sources of information for development and progression.

*“I think there has to be that motivation and buy in from the individual and if that was provided for someone I don’t know that if the way the course is and the way we work you have to be committed to it and it’s not about spoon feeding, but I think you’ve got to allow people that creative flow as well, if you safety people that much then they don’t know that feeling of being out of their depth, it’s not a nice feeling, but you learn from that sort of thing don’t you. I think if you don’t allow that to happen you don’t allow that time for them to find the answers for themselves” (NI6)*

This sense of utilising multiple sources may create a degree of overlap or repetition which was also identified by Bench *et al.* (2018) during the analysis of the authors focus group interview data. The authors identified that participants received a range of differing education via academic master’s programmes or other, which created what appeared to be a sense of repetition. This overlap related to the clinical competencies associated with advanced practice and the challenges of meeting the needs of different educational requirements for differing clinical practice (Bench, *et al.* 2018*).*

Despite this, there is an expectation of capability and competence surrounding advanced practice skills and knowledge development. This is provided by the Multi-professional framework for advanced clinical practice in England (HEE, 2017). It is clear from the framework what clinical, leadership, education and research capabilities are necessary for effective advanced practice. Bench *et al.* (2018) suggest that increased joined up working between Higher Education Institutions (HEIs) and service providers would ensure that curricula content meets service need, providing enhanced clinical support and help to prevent overlap through clinically based assessments. These points occur within this study with reference to the capabilities of advanced clinical practitioners not being fully appreciated in clinical practice (section 5.5.3) and the role that academia plays in underpinning practice (section 5.5.4). These points emerge from the semantic coding of the interview data, which is supported by occurrence of language extrapolated from the diary data. These concepts may support delivery of a programme that is both meaningful and related to clinical and academic need, thus helping to meet expectations. Expectation of what is required clinically and the educational programme to provide it, is referred to by one of the medical supervisor participants and one of the student advanced nurse practitioners interviewed for my study, who suggested the following:

*“we would say that we expect of them, we expect them to function at F1/F2 level, some of my ACP’s that have been in the department a long time I would trust at registrar level” (DI1)*

*“I think it depends on what level the service needs are and if the GP knows what level of skills you already have, so you may have some skills that are going to meet their needs, but they might not, so they develop you to what the needs of the practice are” (NI7)*

There is so much expectation of what an advanced nurse practitioner should be able to do and their capability and competence to practice safely. There is the historical development that has led to the recognition of advanced nursing practice, which is referred to in Chapter One and national guidance on the subject via the framework (HEE, 2017), but there must be provision for its progression through a well-structured educational curriculum, the requirement for which is supported by the interview and diary data associated with this study.

## 5.5.7 Considering the category Continued Professional Development.

Continued development relating to clinical practice knowledge and expertise remained evident in the interview data related to this study. This was expressed by one of the student advanced nurse practitioner participants in the following extracts

*“but then it’s ongoing learning for the MSc and I feel like ‘what do I do next? cause you want to know that you’re still developing, but I think your more focused on your clinical” (NI9)*

Support also appeared within the diary entries in relation to their ongoing development during training, with entries referring to the expansion of new skills. There were numerous entries relating to prescribing practice and a sense of reduced confidence in making prescribing decisions. Although this relates to prescribing practice, MacLellan *et al.* (2015) refer to the emotional journey many experienced practitioners face when taking on a new role such as trainee advanced practitioner. The authors refer to the feeling of inadequacy that can exist, the expert to novice phenomenon, which can result in a sense of powerlessness. These emotions can be exacerbated by the academic and clinical expectations of advanced clinical practice, potentially creating a degree of instability (Morgan *et al.* 2012). This may account for the entries related to confidence in making decisions in clinical practice and may also be worthy of individual investigation in future studies. Within Appendix 12 the number of occurrences relating to prescribing decisions in clinical practice were 118. However, ongoing development clearly benefited from support and that support came in the form of clinical supervision. From the data set it did not appear enough to have access to academia or theoretical knowledge without the support for its purpose, and that purpose had to be placed in context as the following interview extract suggests. This is also seen within the diary data in the form of seeking confirmation for decisions made to help boost confidence and is supported by the extract below taken from the interview data:

*“the biggest problem I had was transferring that knowledge, that bit of knowledge I had to the patient, to expand that knowledge if that makes sense” (NI4)*

Transferring the theoretical knowledge so that it is useful at point of delivery needs support and that support came in the form of clinical supervision, which in the case of the student advanced nurse practitioner participants in this study was provided by the medical supervisors. The student advanced nurse practitioner participants spoke of their supervisors and how it supported their continued development, as the following interview extract shows:

*“you learned as a learner, you tend to forget and when you are practising in front of your peer group and also your supervisor and so they help you overcome if you find any difficulties or you do anything wrong, they help you overcome the problems, they talk to you then and there” (NI2)*

The diary entries from this study also indicated the importance of clinical supervision, in identifying the need for advanced nurse practitioners to seek assurance for their ongoing progression in the form of feedback. Clinical supervision is also identified by the interview data from one of the medical supervisors participating in this study, when speaking of the trainee advanced practitioners’ choice of clinical topics for analysis. This extract also reinforces the idea of supporting the student advanced nurse practitioners’ level of confidence.

*“they have given her a lot of confidence and a lot of reassurance in that what she is actually doing, she is doing a good job” (DI2).*

The above comment from one of the medical supervisors suggests that the clinical support and reassurance offered to the student, ‘that they are doing a good job’, through observing her knowledge in the choice of case-based topics for critical analysis, has supported the student’s confidence and the clinical application. This need for development in confidence and the relationship between academia and clinical practice is highlighted within the literature by Dover *et al.* (2019). The authors refer to the requirement for a curriculum with theoretical and clinical components, to be supported by appropriate clinicians who will manage the transition of the advanced clinical practitioner**.**

Therefore, the development and continued growth of advanced nursing practice requires adequate knowledge and support, from which confidence can develop. The experiences shared by the participants within this study suggest that progression is enhanced by collaboration and co-working within a clinical environment, during the act of supervision. This idea of collaboration could be seen as in direct conflict with the notion that advanced practice is autonomous. However, HEE (2017) is explicit in identifying that the Multi-professional Framework for Advanced Clinical Practice in England supports practitioners to practice to their full potential at a level that is characterised by demonstrating a high degree of autonomy. If we consider the data provided by this study, whilst autonomous practice is required (HEE, 2017), it is developed and nurtured through collaboration. This point is supported by Woods (1997), which although some time ago, suggested that professional collaboration could help safeguard patient care through professional sharing of skills and knowledge. My data suggests that support and nurture help grow knowledge and skill through reflecting on relevant theory and its clinical application.

I acknowledge that the semi-structured interviews and diary data required a reflective approach and as such it could certainly be argued that the participants reflected continuously on their experiences. However, ‘reflection’ was raised by the student advanced nurse practitioner participants and the medical supervisors during the interviews, their thoughts are captured below:

*“but you’ll go onto another clinical case and the clinical picture is not just quite the same , something happens and it doesn’t quite go as you planned it to and that kind of knocks your confidence a bit and then obviously you reflect on it again and you build on that and then you go to another one and you think ah yeah, yeah that was just a blip and this case is fine and it’s things like that, it is a bit of a roller coaster ride” (NI1)*

During the interviews, one medical supervisor spoke of ‘reflection’ in the context of the reflective diaries that the student advanced nurse practitioner had to keep as part of the final module of the master’s programme and what they thought their value was in terms of their continued development.

*“the reflective logs, whilst on occasions I think they have been a little bit tedious to keep filling in, the value of them is to make you reflect ……..certainly with the reflective stuff, to get behind with that, it also becomes limited in its value if you don’t do it contemporaneously and your trying to think back to how you felt at the time, unless it was a very strong emotion, it’s very difficult to retrieve that , so you need to do it when its’ fresh in your head and still feeling those emotions” (DI2)*

The diary and interview data support the importance of academia and its place in enhancing theoretical knowledge and understanding. Utilising that knowledge and skill at point of clinical need correctly and safely, requires a reflective approach that is supported by those with experience to guide the student advanced nurse practitioner. This will nurture the development of confidence and capability and is arguably central to any curriculum design. However, there are challenges to such ambition and from the data associated with this study; one of those is time.

## 5.5.8 Considering categories: Time and Role as Educator.

A challenge to much of the above discussion is that of time. Without time set aside for clinical supervision, study, reflection and general space to grow, it is a task to achieve a capable and competent advanced clinical practitioner. The issue of designated time may also be hindered by the lack of supernumerary status often afforded to student advanced clinical practitioners. However, this has been recognised by some organisations which include The Faculty of Intensive Care Medicine (2015), who insist on the supernumerary status of their students during their studies. This approach may help to address some of the concerns highlighted by the student advanced nurse practitioner participants and the medical supervisors within this study, their voices on this subject are set out below:

*“time, time, we don’t have enough time together…, this is almost done in my spare time, so I don’t get given time per sae, we sneak together” (DI1)*

*“I think it needs to be standardised just like medical students and junior doctors have dedicated set times for teaching each week… junior doctors aren’t allowed to miss their teaching they’ve got to go; it is a requirement of their training and I think when you’re even a qualified ACP it should be a requirement of our development” (NI8)*

*“I could invest, for me I have so much to give, I want to tell them so much, I would love to spend time with my trainee” (DI1)*

Although time is identified as a barrier to both the provision made for teaching and progression, its impact is also felt on the availability for clinical supervision. Financial support for the clinical supervision of advanced clinical practitioners is limited. Interestingly, in 2013 the Department of Health and Social Care (DHSC) introduced a substantial financial tariff for undergraduate medical students, and in 2014 for post graduate medical trainees. What this tariff provided was assurance that medical trainees in primary and secondary care received a good standard of support and if this faltered the funding could be withdrawn. Investing in such a structured and financially supported approach, could help strengthen the development of a healthier workforce and would clearly help advanced nurse practitioners (Milne and Martin, 2019) and address the comments below provided by two of the student advanced nurse practitioner participants.

*“having support and not just support from the university, but from clinical practice and from the start when you are offered the job” (NI8)*

*“If you think about how structured the GP’s training is and the debriefs, they get, the formal protected time that they are given to develop their skills, I can sense this is a common theme that’s coming out, I don’t think that I was afforded the same level of protected time, mentoring etc.” (NI7)*

Despite time as a barrier to clinical supervision, its importance is noted within the literature. Morgan *et al.* (2012) refers to the significance of its inclusion in supporting trainee advanced clinical practitioners within a neonatology and paediatric master’s curriculum in advanced practice. Within my study it is clear that the student advanced nurse practitioners’ value clinical support and the opportunity for a debrief regarding clinical decision making and identification of gaps in knowledge. However, although education forms one of the four pillars of advanced practice, there was one comment made by a medical supervisor as to who is best placed to offer clinical supervision.

*“a lot of our trainee ACP’s tag onto a trainee ACP to take them through the clinical, but I think that is wholeheartedly wrong, whether you like it or not medical school education is completely different, completely different, we go to school for a different reason, it sounds really rude but… and we have a broader education, if you teach someone you need to have the knowledge and breadth to teach and I don’t think some of the trained, especially some of the newly qualified ACP’s have the breadth to train the ACP’s, so I think that is really difficult and that makes me quite uncomfortable sometimes” (DI1)*

The point of who should best provide the clinical supervision is also raised by Crossley and Jolly (2012). The authors suggest that the clinical supervisor should be very experienced, so that the support is of a high quality. These points are discussed further in Chapter 6, section 6.12 of this study. In addition, HEE (2020) indicate that supervisors should have insight into the different professional requirements of trainee advanced clinical practitioners. In their publication entitled ‘Workforce supervision for advanced practice’ (HEE, 2020), the point is made that supervision should take on a multi-professional approach to address the potential complex requirements required by the advanced practitioners that cannot be met by one individual supervisor.

Academia features highly within this study, for both the student advanced nurse practitioner and the medical supervisor. There are those who struggle with its demands, those that see the value of its inclusion in supporting clinical knowledge and skill and those that question its ability to deliver breadth or deliver subjects that are not overly relevant and that will never achieve the standard of medical education. These observations are certainly reflected within the literature. A study by Fitzgerald *et al.* (2013) suggested that developing modules of learning that linked to clinical practice could help with shrinking the theory practice gap, whilst Gaskill and Beaton (2010) identified the need to focus upon work-based learning as a way to link theory to practice. Interestingly, Bergstrom and Lindh (2018) raise the point of boundaries between theory and clinical practice and how curriculum development might meet the diverse needs of advanced clinical practitioners. Evidence from my study relating to such challenges as these, can be seen in the extracts below provided by two of the student advanced nurse practitioner participants.

*“I was really looking forward to doing it, I knew it was going to be a challenge, I didn’t realise what a steep learning curve it would be, from working as an ENP to a trainee advanced practitioner. I mean even as a trainee ACP there is a massive gap between the two, I mean a gap in knowledge” (NI4)*

*“I mean obviously in the first few weeks I wondered what the hell I’d done, because you go from a quite experienced and capable practitioner, you know your job inside out, back to front and you become quite the novice” (NI3)*

These are challenges indeed, which are discussed in greater detail in Chapter Six, section 6.8.4 relating to the theory-practice gap. From the data set within this study there are challenges to the relationship between academia, the development of knowledge and skill and how that can be successfully applied and supported within clinical practice. There are questions regarding what the academic curricula should offer, its value in the development of an advanced practitioner, who should support the development of the advanced practitioner and where will the time come from to do so. From the interview data there are comparisons made between medical education and the education of student advanced nurse practitioners. However, this is a complex comparison to draw and a point which is previously raised in section 5.5.4 of this chapter, when referring to academia and the noted comments by the GMC (2015) and HEE (2017) on medical education and advanced practice development. The difficulty lies in the difference between the requirements of undergraduate and post graduate study. According to the Quality Assurance Agency (QAA, 2014), the primary undergraduate qualification for nursing, medicine and other health care professions such as dentistry, requires a systematic understanding of a complex body of knowledge, with the ability to undertake further training of a professional nature. However, study at Master’s level relies on the information provided by an academic or professional discipline, with the additional demonstration of originality in the application of the knowledge (QAA, 2014). This ‘masterly’ requirement differentiates the level of practice required by an advanced practitioner and their ability to exercise autonomy in complex and uncertain situations, and being accountable for the decisions made (HEE, 2017).

Despite such challenges, the development of knowledge and skills to an advanced level appears to support the student advanced nurse practitioner to act as an educator of self and of others. Evidence to support this point is found within the diary data (Appendix 12) and adopts a number of facets. The diaries identify education given to patients in the management of their condition, educating the parents of ill children on how to effectively care for them and educating carers. Reference is also made to teaching junior advanced clinical practitioners and supporting their development, by utilising reflection to help identify knowledge gaps and realise the role of the advanced practitioner. These traits are seen within the education pillar (HEE, 2017), but they also impact on delivering the NHS Long Term Plan (2019) through advanced practitioners providing health education in primary care, nursing homes, and supporting people with long term conditions to take control and management of their condition supported by their expert advice. The role of advanced practitioner as an educator also helps provide support and development of the workforce by being ideally placed to offer education within the clinical environment, thus helping to meet the ambition of the NHS People Plan (2020).

## 5.6 Summarising the data set and identifying the themes.

There is undoubtedly a firm focus upon clinical practice, which is not really surprising as the student advanced nurse practitioners kept clinical diaries. However, within the interview data there remains a strong emphasis towards clinical practice, skills and knowledge development, and attention on patient need and care. Figure. 3 in section 5.1 identifies the links between the identified categories indicated in Table. 9, section 5.4 and the emergence of the four themes which are discussed in section 5.7. The four identified themes within the diagram (Fig. 3, section 5.1) are indicated at the top of the columns, with the associated categories that served to create them listed below each theme. However, several of the categories can be linked with more than one of the themes and this is explored within sections 5.5-5.5.8 of this chapter.

A focus on education and academia was evident within the diary data and again featured in the interviews, but it was mixed between education of self and of others, which included colleagues and patients, but with acknowledgement of the student advanced nurse practitioner participants experience of their academic education. Both the terms education and academia are used here, as education refers to a gathering of knowledge by various means, whereas academia is a more formulised and structured approach. This is supported by Jarvis (2004), who suggests that both knowledge of the academic discipline and practical knowledge is integral to the practitioner understanding the “nature of knowledge and the knowledge of society” (Jarvis, 2004 pg. 12). The reference to developing clinical skill and its relationship to academic knowledge is recognised by the student advanced nurse practitioners, but their medical supervisors view is somewhat different. The medical supervisor participants interview data suggests they focused on who is selected for development, the student’s ability and experience. They suggested that greater structure was needed in relation to the education of the students, so people understood what was expected of them and what was expected of the supervisor. They also suggested that the education of student advanced nurse practitioners would benefit from closer alignment to medical education, but this was tempered by the fact that advanced nurse practitioners are already registered professionals with their own knowledge and skills (see section 5.5.8). For these reasons ‘Academia /Education’ features as one of the identified themes.

Within the data set there is reference to the development of confidence. This is acknowledged through a reflective approach on clinical practice and the identification of gaps in skill and knowledge and the subsequent impact on the development of capability, competence and ultimately progression. Reflection upon their experiences and their personal qualities helped to identify areas for progression and development, therefore ‘Reflection’ was identified as a theme. However, the support from clinical supervision was indicated by both the student advanced nurse practitioner and medical supervisor participants within this study, as underpinning growth in confidence and capability. Both participants and the data they produced from the interviews and diaries spoke of the importance of clinical supervision and debrief and its ability to influence the relevance of theoretical understanding and reason and its application to clinical practice, which appeared essential. Clinical reasoning, based on broader understanding, featured as important in the education of student advanced nurse practitioners, rather than a simple system approach. The need to be clinically competent and apply their knowledge appropriately within the clinical environment, with the support of clinical supervision led to the development of ‘Clinical’ as a theme. The student advanced nurse practitioners appeared to require this source of confirmation, provided by the clinical supervision, as recognition of their ability to reason and practice correctly and thus a way of developing confidence in themselves. This confirmation of ability and that need to be assured of their ability to practice safely led to the identification of ‘Confirmation’ as one of the four themes.

Considering the data set, the coding and formation of categories and the patterns, regularities, irregularities, relationships and contrasts they have provided, the following four main themes are identified:

Confirmation

Clinical

Academia/Education

Reflection

These four themes are distinguished as common to the codes and categories, and they encapsulate their existence under the named four themes in the following ways.

Confirmation- is found in the need for the student advanced nurse practitioners to understand that their clinical reasoning, which is developed from their knowledge and skill and their ability to clinically apply it and answer to it at point of need, is correct. Confirmation helps to develop confidence in their ability and knowledge and helps them identify skills gaps, which can then be addressed and supported through the provision of clinical supervision. However, to seek confirmation, firstly one needs to have the ability to apply knowledge and skill, and this is supported by the academic underpinning provided by the educational curriculum.

Academia/ Education- helps support development of knowledge and understanding, which in turn helps support development of clinical reasoning. Utilising evidence-based practice and having a structured educational curriculum, which is responsive to clinical need and represents practice, becomes significant to the practising advanced clinical practitioner. Reflecting on relevant and applicable knowledge supports the clinical supervision process, by confirming the student advanced nurse practitioner’s accurate clinical perception.

Reflection – allows for a pause to consider one’s own learning where knowledge and skill gaps can be identified and progression plans created, that in turn are reflected upon. This is not to suggest that reflection is a naval gazing exercise, on the contrary, reflection takes place within the clinical supervision process and during learning, undertaken via the educational curriculum. Reflection is ongoing and helps support the development of understanding, which appears to be an essential component in the development of capability.

Clinical- to make the educational development meaningful and applicable, the clinical environment provides a natural setting and delivers a real-world view for the application of advanced practice skills and knowledge. Part of clinical supervision is about the response to an event and the clinical reasoning that emerges from that response. It is delivered live within a clinical environment that places the education in reality and creates an impromptu opportunity for learning. The clinical environment provides a wealth of opportunity for exposure to clinical and theoretical challenges, therefore developing a curriculum that is embedded within the reality of practice, offering greater support and addressing many of the experiences identified by the participants within this study.

## 5.7 Conclusion.

The data set has provided a voice for the participants. It is their experiences, thoughts and opinions that have dominated this chapter, as they form a response to the initial research question. This has been achieved via the use of a semi-structured interviews and access to individual clinical diaries, completed during the final stage of a Master’s educational programme of study. Using thematic analysis, it is possible to see the patterns and connections that offer the emergence of categories and the final development of the four overarching themes. It is these four themes that will be considered and discussed in Chapter Six, providing a detailed debate that seeks answers to the study question.

*What impact has a master’s curriculum, designed to support student advanced nurse practitioners educational and clinical needs, had on their professional development?*

# CHAPTER 6 – An exploration of the themes- their impact on the development of advanced practice curriculum design.

## 6.1 Introduction.

The four key themes that emerged in the previous chapter: confirmation, clinical, academia/education and reflection, will be discussed within this chapter. What is apparent from the themes is that if we consider the research question,

*What impact has a master’s curriculum, designed to support student advanced nurse practitioners educational and clinical needs, had on their professional development?*

it is not just the curriculum that impacts upon the student’s educational and clinical need, but a complex interwoven merger of clinical, academic/educational, emotional and reflective experiences that shape their world, indicated by the emerging themes. To help emphasise the exploration of the themes and impact of the data analysis upon development of advanced clinical practice curriculum design, some of the voices of the participants has been incorporated into this chapter. This decision is based on a suggestion made by Thomas (2011) writing on the subject of case study. What the author highlights is that for a case study approach, separating out the analysis and the discussion may not always be appropriate, as the thoughts and developments continue to be tested and therefore both analysis and discussion often merge. Using some of the participants voices within this chapter portrays the evolution and development of the case, using their words to make sense of the case study and its findings therein (Simons, 2009). Therefore, from this data a curriculum designed to support the development of student advanced nurse practitioners and other professions employed to practice at such a level, must facilitate achievement of not just the required capabilities and competencies, but a structured and supported fusion of both academic and clinical education to offer a meaningful experience. The identified four themes support this approach. They highlight that for the participants within this study, knowledge was enhanced by ‘doing’ and supported through a collaboration of clinical practice and cognitive reasoning. Development was reinforced through problem solving, via a combination of personal understanding and interaction with the world outside this existence and driven by a need to know. This suggests a ‘bottom up’ approach to curriculum design, one that is driven by clinical need, but which is embraced by educational understanding that correctly places the theoretical underpinning knowledge and makes it accessible and applicable to clinical practice. This is the pedagogical stance relating to this study, which is supported by the educational theories discussed within this chapter in sections 6.8.1 to 6.8.4 and related to the educational models proposed in sections 6.7 and 6.11, which are also discussed within this chapter.

## 6.2 Acknowledging the influence of national policy relating to advanced clinical practice on the findings of this study.

Although the findings of this study indicate the identification of four key themes there is still the need to acknowledge the national strategies that impact on the education and development of advanced clinical practitioners. Advanced nurse practitioners work alongside medicine in the clinical setting. They, and advanced clinical practitioners from other professional backgrounds, are required to have a high degree of autonomy and the ability to make complex decisions, for which they are ultimately responsible (HEE, 2017). For this to be achievable, the Multi-professional framework for advanced practice in England (HEE, 2017) underpins the required level of preparation required and defines these capabilities and competencies (which are discussed in section 6.4) within the four pillars of advanced practice. The four pillars of advanced practice are identified as clinical practice, leadership and management, education, and research (HEE, 2017). It is therefore not without surprise that the themes emerging from this study resemble two of the pillars, those being education and clinical.

The four pillars identified by HEE (2017), reflect a number of ‘capabilities’ related to each pillar, and it is the development of capability, using clinical support and assessment, that appears to be the focus of the educational requirement (HEE, 2017). According to HEE (2017), the development of competence and capability is noted as a collaborative relationship between the education provider and the employer. Agreement needs to be sought in relation to the correct educational support required for each individual trainee advanced practitioner, via academic or work-based assessment, that is structured to meet specific need (HEE, 2017). This is an important point that is reflected within this study (Chapter Five, section 5.7), with the identification that support within the clinical environment provides the ideal place where knowledge and skill can be scrutinised in context. This approach reflects the requirements of the apprentice standard ST0564 for advanced practice, issued by the Institute For Apprenticeships (IFA) and approved for delivery in 2018. Both documents outline the required key characteristics of advanced practice and detail the knowledge skills and behaviours necessary to manage a complete episode of care independently (HEE, 2017; IFA, 2018). The required characteristics, which fall under the four pillars of advanced practice, have a professional, clinical, academic and management focus that involves the communication with multi-disciplinary teams, placing the patient and their family at the centre of that care. Therefore, any educational programme must reflect the requirements, capabilities, behaviours and level of competence indicated within these national policies. However, this study indicates that the educational curricula must also be timely and delivered at point of need, appropriate and supported, so that the experience is meaningful.

The findings from this study, which are discussed in Chapter Five, place an emphasis on clinical knowledge and skill, and confirmation of its effective application, underpinned by academic comprehension. Interestingly the General Medical Council (GMC) produced a framework for the development of doctors during post graduate education. The Generic Professional Capabilities Framework (GMC, 2017) was created in response to the increasing professional inquiries related to the poor provision of medical care. The document highlighted the need for a comprehensive medical education that would ensure improved knowledge in several categories which included caring for the vulnerable, health promotion, team working and professionalism (GMC, 2017). The aim was to develop a consistent approach to clinical skills and knowledge via a structured framework, highlighting fundamental capabilities associated with good safe clinical practice. The framework was also developed to identify professional responsibilities and adapted into educational outcomes with the addition of descriptors, which the authors suggested could be placed into a curriculum (GMC, 2017). Locally, this Generic Professional Capabilities Framework (2017) is being considered as part of the competency structure for student advanced practitioners, as these professionals work closely and are aligned with the provision of medical care. The focus of this framework is upon the development of safe, effective, consistent, and capable medical practice. This study has suggested that this is also an important factor in the development of advanced clinical practice.

It appears that in developing any framework to ensure capability, it must address the requirements of service provision which is driven by patient need. If we consider the NHS Long Term Plan (2019), the ambition of the NHS is to improve health care through several initiatives. A number of these initiatives are aimed at improved maternity care and reduction in the number of still births, decreased waiting times for services in child mental health and cancer care. The plan also includes reduction in the incidence of heart attacks and improving early detection of lung disease, with an increased focus on the adequate funding of primary care (NHS, 2019). To achieve this and meet the increasing demand, the service requires total workforce development (NHS, 2019), via the employment of trainees, which are supported by the apprenticeship scheme (NHS, 2019, pp. 81, 4.18) in order to afford the right people with the right skills. The NHS People Plan (2020) seeks to set out the actions required for this transformation of the workforce, by investing in training and creating a greater sense of team work to deliver patient care. There is also the suggestion that health care professionals require more generalist skills as many adult patients present with two or more comorbidities (NHS, 2019). This appears especially so within primary care, with secondary care having a greater focus upon specialist skills (NHS, 2019). This suggestion related to generalist skills is supported by the findings of this study in section 5.5.4, which highlights the increasing number of patients with more complex presentations accessing primary care. This finding relates to the NHS People Plan (2020) in terms of its focus upon training as part of the transformation of the workforce to meet such demands, and as such has an impact on how a curriculum may respond to such need.

## 6.3 Generalist v Specialist - determining curriculum design in consideration of both.

Generalist skills are, by their very nature, broad, but it would seem they are required to acknowledge the presence of multiple pathologies (NHS, 2019). However, Bench *et al.* (2018) suggests that curriculum design needs to meet the requirements of both a generalist and a specialist advanced clinical practitioner, offering modules and pathways to accommodate this diversity. Therefore, developing an educational curriculum to accommodate both requirements, meet national drivers and professional need, is littered with challenges. For example, a generalist curriculum, offering a broad knowledge and skill base may lack the depth, whilst the specialist curriculum, although offering depth in a particular field, may be too focused to offer the breadth, I indicate this concept graphically in Figure 4.

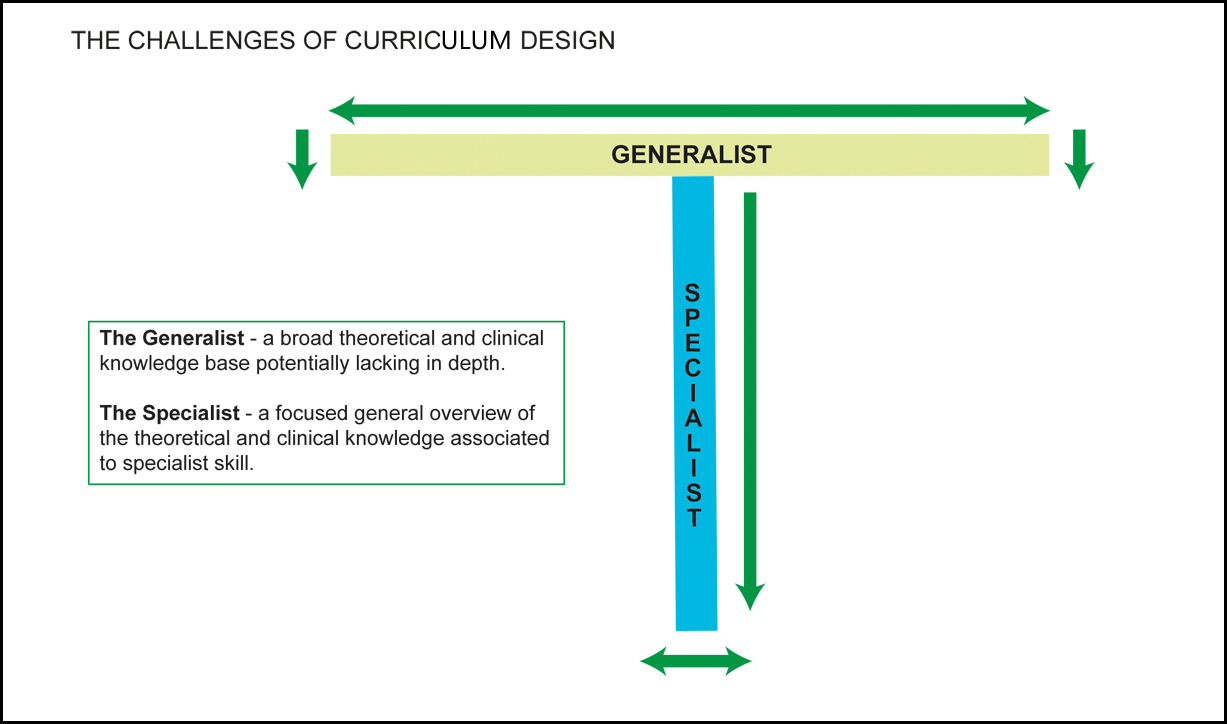


Figure 4: A diagram to indicate the challenges of curriculum design to meet generalist and specialist educational requirements.

Barton and Allan (2015) refer to this issue associated with generalism and specialism and highlight that although historically nurse practitioners have been associated with generalism and clinical nurse specialists with specialism, in current times the roles have been blurred, with both possessing generalist and specialist presentations. The Multi-professional framework (HEE, 2017) also supports a combined approach to this issue via its core capabilities, which is especially noted under the ‘clinical’ pillar, and in relation to speciality, capability 1.11 (HEE, 2017), requires ‘evidence of subject specific competencies’, although all four pillars identify the core capabilities in relation to advanced level of practice. The challenge is therefore to deliver a curriculum with the depth and breadth of knowledge required to be able to meet the diversity of clinical need and difficulty. This point is raised by Woods in 1997, which although twenty years ago, still appears relevant today. Key points Woods highlights are that generalist programmes may provide the broad basis for development, but that this may be at the detriment of knowledge to enable management of complexity (Woods, 1997). A more recent qualitative study, which considered the education and training needs of advanced practitioners, suggested that advanced practice curricula should include advanced assessment skills, application of pathophysiology, research, understanding of leadership and quality, with additional option modules to meet individual clinical requirements (Bench, *et al.* 2018). Bench *et al* (2018) also emphasised that curriculum design should address the national and international frameworks aimed at advanced practice, which have been previously identified within this chapter in section 6.2(HEE, 2017; IFA, 2018).

The development of frameworks offers structure and recognises nationally agreed key abilities and knowledge required for the delivery of safe clinical practice. This is true of those frameworks aimed directly at advanced clinical practice (DH, 2010; HEE, 2017; IFA, 2018). Several authors have referred to the requirements for competent clinical practice and therefore the need for supporting competency frameworks. They suggest that competencies designed to support advanced practice in general, may also need to be developed to support specialist practice (Furlong and Smith, 2005; Bench, *et al.* 2018; Dover, *et al.* 2019). Competencies to address this issue have been developed (HEE, 2017), with the addition of specialist competencies provided by the Royal College of Emergency Medicine (RCEM, 2017), the Faculty of Intensive Care Medicine (FICM, 2015) and the Royal College of General Practitioners (RCGP, 2015), with others in development in the form of credentialing (HEE, 2020). Collaboration and adoption of the capabilities and competencies into advanced practice curricula are therefore advantageous and may support the development of knowledge and skill (Dover, *et al.* 2019). Reference to capabilities and competencies that support specialist practice can be found from participants within this study (Chapter Five, section 5.5.4). Their acknowledgement is made in connection with the regulation of advanced clinical practice in that they offer a baseline for accepted practice. Therefore, curricula that offer a generalist foundation and the core capabilities (HEE, 2017) will address the fundamental requirements of advanced level practice and will also need to evidence subject specific capability and competence to meet the complexity of service need (see section 6.11).

It is therefore clear that in general, the education of advanced nurse practitioners and advanced practitioners from other professions, is governed by capability, competence and professional behaviours and values, to meet the growing and complex needs of patients (NHS, 2019). If advanced practitioners are to complete a full episode of care, they must practice to their full potential and embrace multi-disciplinary working (HEE, 2017), adopting and developing skills that allow them to do this.

The utilisation of competency frameworks (FICM, 2015; RCGP, 2015; GMC, 2017; HEE, 2017; IFA, 2018) offers a clear structure and outcome, however it is in many ways prescriptive in nature and the outcomes of this study concur with Dover *et al.* (2019, pp. 3216) when they speak of the need for further research in the field of advanced practice education. The authors suggest that additional research into models of education will help ensure that curriculum development is ultimately prepared to meet the needs of student advanced practitioners in their preparation for clinical practice (Dover *et al.,* 2019). However, I would also suggest that to consider the design of an educational model, a full appreciation of what is meant by ‘capability’ and ‘competence’ is needed. This will assist in addressing and incorporating national policy and competencies in the development of advanced practice education.

## 6.4 Capability and competence- the relationship to advanced nurse practice education.

The words capability and competence are evident within the policies and documents relating to advanced clinical practice (HEE, 2017; IFA, 2018). The policies serve to identify key skills, attributes, knowledge and behaviours associated to a level of practice, which will provide safe and effective care for patients and their families (GMC, 2017; HEE, 2017; IFA, 2018). The difference between capability and competence, according to Fraser and Greenhalgh (2001), is that competence defines what a person has knowledge about and is able to do, whereas capability requires an individual to develop new knowledge and be adaptable to change within a situation, thus continually developing to enhance performance. This is reflected in the definition provided by (HEE, 2017) related to advanced level practice, which stipulates that advanced level practitioners work at a level where complex decision making, across a range of settings is required, exercising autonomy for which they are accountable.

Competence suggests an ability to see and then do safely, rather a tick box exercise of clinical proficiency. This concept is supported by the Miller pyramid of assessment (1990), which proposes how skill and knowledge may develop clinical competence. Miller’s model of assessment (1990) offers a stepped approach to help measure and evaluate clinical competence. However, Wass *et al.* (2001) questions the peak of the pyramid in terms of the difficulty in creating an assessment that is reliable enough to transfer to clinical competence.

In contrast, capability appears to stretch the individual further to develop situational awareness and aptitude and adapt knowledge and skill with confidence and competence to meet the immediate need, whilst learning from that encounter. O’Connell, Gardner and Coyer (2014) certainly imply this to be the case, indicating that a new approach to the education of advanced practitioners is required. The authors suggest development around capability creates individuals able to cope and adapt to safe administration of care, in what is an increasingly complex health environment. It would therefore appear from the literature, that the clinical environment has an important association with, and is central to, the educational development of individuals towards capability (Cairns and Stephenson, 2001).

This concept of how influential the clinical environment can be in the development of advanced clinical practice is reinforced in Chapter Five, section 5.5-5.6 of this study. Indeed, reference to the clinical environment is so frequently observed during analysis of the data set, that one of the four themes emerging from this study is ‘clinical’. The interview and diary data support the finding that the clinical environment provides a natural setting and offers a real-life experience, which is important in the development of advanced practice and clinical capability and confidence. Reference to this point can be seen below in an extract from the interview data from this study:

“*you know when you’re writing on the ward round, you know why the consultant is looking at the neck, not just is he looking at the JVP or you know when they are examining the abdomen what they’re looking for, that gives you confidence” (NI6)*

This extract from the interview data also suggests that this development is not created alone. This development is gained from reflecting on previous knowledge and understanding and from the observation of others. Therefore, this development is not isolated, but nurtured and supported by others. This concept is discussed in Chapter Five section 5.5.5 in relation to clinical supervision and its impact on the student advanced nurse practitioner’s development, but the notion of support also exists within communities of practice, which I feel is an important aspect when considering curriculum design for the following reason.

## 6.5 Support for development - utilising a ‘community of practice’.

Within a community of practice, people come together who have a common interest in something they are involved in and by interacting with one another they develop knowledge and skill to improve (Wenger, 2006). For a community of practice to exist Wenger (2006) suggests three components are required, the domain, the community and the practice. According to Wenger (2006), the domain is required as the members share a common interest which identifies them. The community utilises that interest and those associated with it and shares their knowledge, fosters the building of relationships and helps create a sense of support for each other, in order to nurture development. The practice involves the sharing of resources and experiences that will help the members overcome challenges (Wenger, 2006). Essentially, a community of practice enhances members who have a commonality and can share resources and experience from which they can develop and learn. It is clear that if higher education institutions and health organisations who employ student advanced nurse practitioners collaborate, then a shared approach to theory and practice can be enhanced. Therefore, a community of practice that jointly creates a curriculum embedded in the reality of practice can cultivate opportunities where capability can be nurtured. This is in keeping with the advanced clinical practice core capabilities as stipulated by HEE (2017). Under the ‘education’ pillar, (3.5, HEE, 2017, pg. 10), HEE suggests that health care professionals working at an advanced level should facilitate collaboration across the wider team using a process of peer review to identify team learning. In addition, the NHS People Plan (2020) refers to building multi-professional teams and utilising the skills and capabilities of those within the teams to enhance flexibility and progression. Therefore, an approach to workplace clinical supervision (HEE, 2020) will require collaboration between the workplace and the education provider, incorporating professional and national drivers, therefore developing a community of practice.

The notion of collaboration between academia and clinical practice is not new and is supported by Fitzgerald *et al.* (2013) in their paper related to sustainable and flexible learning in a master’s programme designed to support advanced clinical practitioners. The authors describe development of a distance learning module related to health assessment, which was challenged by the fact that clinical educators were not academically comfortable with the theory. Amendments were made to address this issue resulting in an additional synchronous online interaction. The findings of this study are important as there is certainly a need to develop an educational curriculum that links theory with practice, but there is also a need to cement knowledge in real time as discussed in Chapter Five, section 5.5.6.

The four emerging themes from this study (see section 6.1) support the need to recognise the impact of knowledge gained from academic study and the challenges faced by the student advanced nurse practitioners to actively place that into practice. The clinical environment provides this in abundance and with the support of clinical supervision, the student advanced nurse practitioner can reflect upon both theoretical and clinical experiences and rationalise their application, which can be confirmed as correct or requiring development. This not only enables the development of capability and competence (GMC, 2017; HEE, 2017; IFA, 2018), but of confidence to practice safely.

As discussed earlier in this section, the shared learning that would originate from a community of practice could foster greater development towards capability. This may address one of the themes emerging from the thematic analysis related to this study, that of ‘confirmation’. This need for ‘confirmation’ is evident in Chapter Five, section 5.5.5 and emerges from the interview and diary data related to this study. The student advanced nurse practitioner participants require feedback when demonstrating their ability and articulating their clinical decision making, thus providing accurate and safe practice.

This opportunity for confirmation came in the form of direct clinical supervision or debriefs, which related to decisions around patient care. The decisions made by the student advanced nurse practitioners, both in primary and secondary care, related to investigations, patient presentation, medication reviews and the associated evidence-based practice. According to the data produced by this study (see Chapter 5, section 5.5.6), these opportunities for clinical supervision or debriefing appeared vital in confirming accuracy and in developing service provision. The importance of clinical supervision is also identified within the literature by Morgan *et al.* (2012) in helping support development of self and the advanced practice role within the clinical environment.

The ability to develop knowledge and skills and to be able to clinically reason choices and decisions the trainee advanced practitioner has made, forms the process of clinical reasoning. Therefore, support for clinical reasoning is an important process towards delivering confirmation on clinical knowledge and capability, which is discussed in Chapter 5, section 5.5.5.

## 6.6 The impact of clinical reasoning on clinical decision making.

Clinical reasoning is a method by which individual clinicians arrive at decisions related to the care and management of patients. It consists of a number of considerations that include evidence-based practice, history taking, evaluation of clinical tests, the acknowledgment of human factors affecting the ability to process the incoming information and the importance of critical thinking and effective communication (Cooper and Frain, 2017). Cooper and Frain (2017) recommend that the process of clinical reasoning can be adapted into an educational activity, which is best served at the point of the clinical encounter, as this helps place the learning in context. However, the authors also suggest the use of clinical reasoning during simulation, case-based discussions and during reflective practice.

This concept of real time exposure, which is offered in abundance in clinical practice, is echoed by Crathern *et al.* (2016). The authors refer to the importance of ‘keeping it real’ (Crathern *et al*., 2016 pp.7) when speaking of the first year of a master’s programme designed to support the development of advanced neonatal nurse practitioners. This, they propose, is achieved using skills logs and involvement in reflective professional discussions, therefore placing the educational opportunity at the point of clinical exposure. This concept of maintaining a focus on reality is also supported in the literature by Morgan *et al.* (2012) and Fitzgerald *et al.* (2013), who both point to the use of journals, work-based learning and the need for module design to be closely related to clinical need.

The findings within this study defend the idea of learning being ‘kept real’ and clinically appropriate. The data supports the concept that there should be increasing opportunity to promote capability through applying and adapting knowledge via the process of reflection, based in real time (see Chapter 5, section 5.5.6), which is certainly supported by the literature (Shӧne, 1983; Cairns and Stephenson, 2001; O’Connell Gardner and Coyer, 2014; Cooper and Frain, 2017). This notion is also supported by a study undertaken by King (2019) in which knowledge mobilisation related to discharge planning by advanced nurse practitioners within an accident and emergency department, was considered using ethnography. The findings concluded that knowledge developed from situational learning, which was supported via clinical supervision, peer support and clinical experience. Therefore, utilising an approach which is anchored in reality, will help place the acquisition of knowledge, skill and its application in context, therefore supporting the development of clinical reasoning.

## 6.7 Placing learning in context - designing a model to support advanced practice education.

Sections 6.2 to 6.6 have considered the national policies, the generalist and specialist requirements, capabilities and competencies and the support for developing effective advanced clinical practice. The findings of this study indicate four key themes that reflect these identified requirements, via the views of student advanced nurse practitioners and their medical supervisors. Overall, the four themes indicate a need to develop advanced clinical practitioners that are *Clinically* capable and competent. This requires support and nurture to offer *Confirmation* of correct application of skills and knowledge, enhanced by *Academia*, and the use of a *Reflective* approach to develop clinical reasoning. Developing a model to demonstrate these four themes indicating the link between clinical practice, education/academia, confirmation of clinical reasoning and the use of reflection can be seen in Fig. 5.

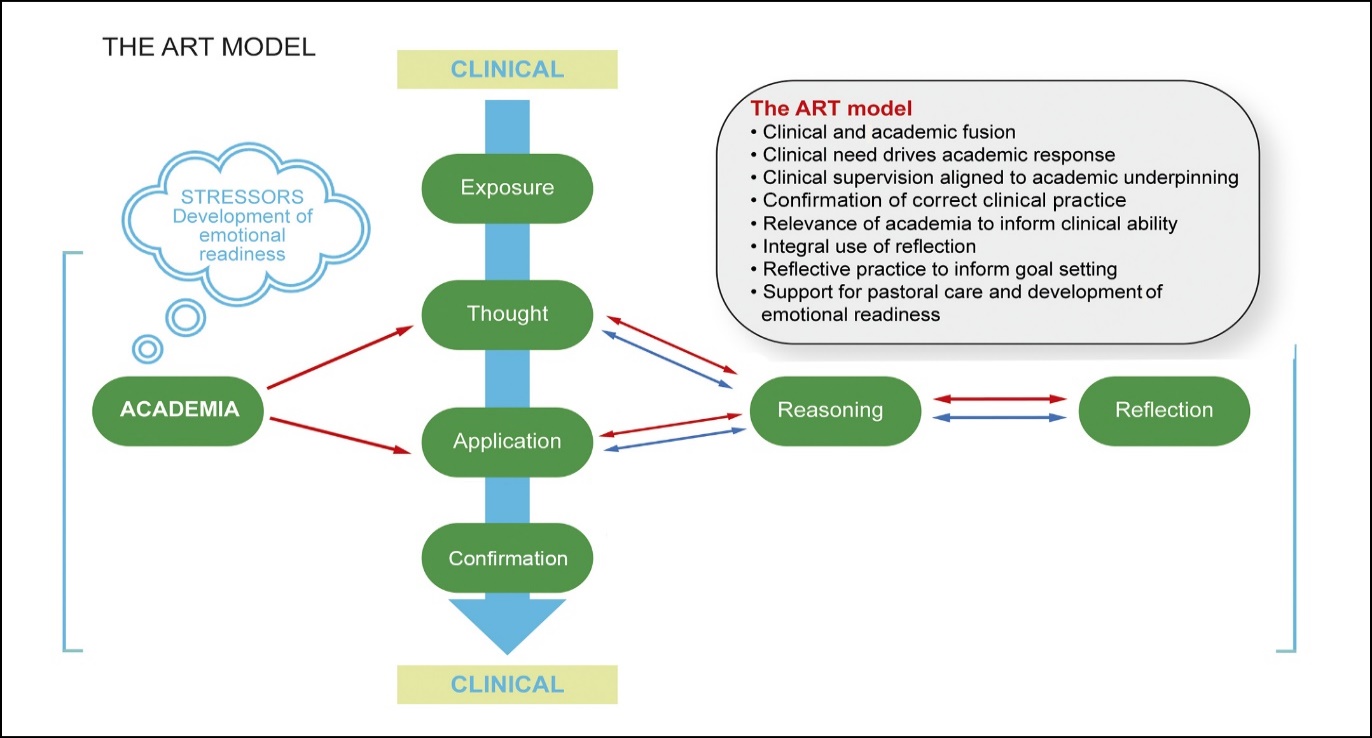


Figure 5. The ART model: exploring the relationship between the themes.

Education/academia, clinical and reflection form three of the four identified themes related to this study. Taking this into consideration the model in Fig. 5 is designed to capture the emerging themes and their relationship to the experiences of the student advanced nurse practitioners (see Chapter Five). Its title is taken from the key aspects of its design, using a single related letter from each of the components, Academia and Application and the role of Reasoning, Reflection and Thought (ART) on developing skills and knowledge in advanced clinical practice. Although arguably the diaries were compiled by reflection upon clinical activity, the interview data, which considered the participants experience of the master’s programme, similarly features a focus towards clinical practice (Chapter Five, section 5.5 - 5.5.8). This also appears in the literature in a study by Bench *et al.* (2018), with the authors referring to the participants speaking about their experience of a master’s programme and their thoughts on the education and training needs of advanced practitioners. The participants called for a more ‘hands on experience’ and appeared to value opportunities to examine real patients, be that in the classroom or when in clinical practice (Bench, *et al.* 2018 pp. 71.). This is also identified within my study, but there is more required than just the clinical examination skills, there is a need to ‘tie it all together’ (see Chapter Five, section 5.5.4), a real need to be able to apply the theoretical knowledge safely and effectively at point of need and be supported to do this, so that the application is confirmed as correct. This concept is depicted in Fig 5.

Keeping the learning real and in context is also echoed in the literature by Lorwald *et al.* (2018), when they considered the educational impact of the work-based assessment tools Mini-Clinical Evaluation Exercise (Mini-CEX) and Direct Observation of Procedural Skills (DOPS). In their systematic review of the literature on the subject they suggest that the use of Mini-CEX and DOPS provided an educational measure of performance at the point of delivery, making it timely and appropriate, although noting that it could be perceived as an additional challenge to workloads within the clinical setting. The authors felt that these assessment tools could be a valuable addition to health professionals training (Lorwald, *et al.* 2019). However, this approach is not favoured by everyone, notably Crossley and Jolly (2012), who appear to cast doubt on the outcome of such tools. What is interesting about the views of Crossley and Jolly (2012), is that use of the tools does not necessarily allow for a measured view of the whole picture. The experience is judged against criteria, which may not allow for a true demonstration of clinical ability and knowledge and therefore obscure the assessment without focusing upon it. This is an important point made by Crossley and Jolly (2012) in their suggestion that assessment should be made by the right people, who can ask the right sort of question, about the situation or experience, at the appropriate time, in an appropriate way, which is certainly a sentiment that is echoed by my own study. The findings of my study highlights that utilising the clinical environment and the right people at the correct time and place, facilitates the learning to become entirely tangible and helps develop higher cognitive thinking. To summarise, the model in Figure 5. reflects this view and depicts the following points within its design:

* **Clinical exposure**- the opportunity for enhancing capability would arise from exposure to a situation via clinical emersion.
* **Thought provoking clinical encounter**- this exposure and subsequent stimulus, provides an opportunity for thought. This in turn creates an occasion for critical thinking, which is enhanced by the learning being in context and of the moment, becoming relevant and meaningful for that clinical setting.
* **Reflection**- reflection upon previous exposure, knowledge/academia and skill, supports clinical reasoning and is a two-way process.
* **Application-** is the ‘doing’, allowing for the clinically reasoned management of the clinical situation with the support of clinical supervision.
* **Confirmation**- acknowledges the correct application of skills and knowledge to develop capability and confidence and is supported by clinical supervision.

The use of reflection is integral to the process, which is supported and guided by effective clinical supervision, as suggested by Crossley and Jolly (2012) and which provides confirmation of the student advanced nurse practitioners decision making ability. The suggested model in Fig 5. determines the links between clinical, education/academia, confirmation and reflection, which are the four emerging themes from this study. The model (Fig. 5) helps identify a fusion between theory and clinical application facilitated by reflection and thought and suggests the links that can be explored and supported to help strengthen this process.

This key concept of creating greater academic and clinical cohesion is supported in the literature by Bridges (2015). The author considered three master’s programmes, provided by higher education institutions within the UK, aimed at supporting the development of advanced practice. The case study aimed to consider the effectiveness of transition between academic programmes and clinical practice. The data consisted of semi-structured interviews and focus groups with students, qualified advanced clinical practitioners and managers from the students Trusts. The conclusion appeared to suggest that the curriculum should develop clinical quality and that systems were needed that facilitated effective learning transfer. This sentiment (Bridges, 2015) resonates within my study as seen in the comments made by the student advanced nurse practitioner participants in Chapter 5, section 5.5.6.

There is a sense of ‘tying it all together’ and creating a purposeful meaning to the learning that is important. However, the elephant in the room is the ‘stressors’ (Fig 5), the emotional strain and lack of confidence that many students spoke of within this study (Chapter Five, sections 5.5.4). These emotions impact on sustainability to learn and develop and are captured within the literature in relation to support and the need for clinical supervision, feedback and debrief (Morgan, *et al.* 2012; Bench, *et al.* 2018;Dover, *et al.* 2019*)*. In order to incorporate such need and to take account of the emotional development and readiness to learn, an exploration of educational theory may provide an understanding from which a structured and informed curriculum can be proposed.

## 6.8 Educational theories - their relationship to the ART model and curriculum design.

The development of the model in Fig. 5. and the subsequent model in section 6.10, is not without the influence of philosophers, phycologists and educationalists who have shaped educational theory. Authors such as Lev Vygotsky (1998), John Dewey (1916), Jerome Bruner (1996) and David Kolb (2015) have influenced and informed this study in relation to the emerging themes and their impact on the design of advanced practice curricula. Although many of the authors offer different terms to highlight different types of learning, it is interesting to note that Jarvis (1998) suggests many of the differing terms refer to very similar phenomena. What is apparent in the work undertaken by Jarvis (1998) is that learning is an individual number of processes that take the form of primary experiences which are first-hand, and secondary experiences which are provided through knowledge development. This suggests that one continues to learn throughout life, adjusting and developing from exposure and experience be it via primary and secondary experiences. This is related to work by John Dewey (1916) in his texts on education.

## 6.8.1 John Dewey - The author’s influence on the proposed curriculum design.

Dewey, in his book Democracy and Education, which was first published in 1916 and then republished unabridged in 2004, refers to the way in which, in his view, education takes place. What Dewey indicates is that education exists from contact, often within groups, in which those that have a greater or mature understanding, transfer knowledge to those who have less. This is achieved through communication, expectation, emotion, opinion and standards, by those existing within the group, coming into the group and those that will eventually leave (Dewey, 1916). When referring to academia, Dewey suggests that this provides foundations which allow individuals to place that understanding in context. Interestingly though, Dewey (1916) identifies a level of caution when referring to the increased requirements of formal teaching. He proposes that the danger with this approach is that a divide will occur between what can be gained from learning directly in context, to what can be learned in a classroom.

Speaking of Dewey, Pring (2007) notes Dewey challenged the philosophers of the day, who held the perspective that knowledge was only arrived at through a process of structured division (the classroom). Dewey defied this concept, arguing that growth occurred through interaction with the surrounding environment, thus testing previously held knowledge, which created new thought and feelings, leading to personal transformation. However, there are critics of Dewey who cite issues such as the lack of structure to this form of learning. Jan Derry, writing of John Dewey in relation to his philosophy of education in Chapter Eight of John Dewey’s Democracy and Education, A British tribute (Higgins and Coffield, 2016, pg. 131-148), speaks of the critical view adopted by some philosophers. Derry suggests that Dewey’s work may well have been somewhat misinterpreted, when focusing on the freedom of individuals to make sense of one’s environment. However, the criticism for Dewey’s work appears to be in a lack of a structure to guide or support learning, resulting in a reduction in progression or development of new knowledge (Higgins and Coffield, 2016).

Taking these considerations into account, I return to the concept of ‘tying it all together’, and contemplate the idea that one challenges one’s ideas, which are developed from previous experiences and shaped by culture and environment. This is mentioned by one of the medical supervisor participants in this study and suggests that although structure may exist in academia, it may be challenging to achieve the same in clinical practice.

*“They need time, they need direction and clearly they get that at the university, but I don’t think they necessarily get that clinically as well, they are left to fumble and stumble a bit and it depends on who the ACP is, how strong clinically, how strong the mentor is” (DI1)*

The suggestion by the medical supervisor is that the educational structure of the programme offers direction for the student advanced nurse practitioners, but this may lose its impact if the student is lacking confidence clinically and the clinical supervision is potentially substandard. According to Dewey (1916) the clinical environment would provide experiences that would support transformation and influence development, but it is clear from this study that must be structured and not left to chance. This is supported by the findings outlined in Chapter Five, section 5.5.5, which offers evidence that effective clinical supervision can provide the glue that brings and holds the learning together and in context.

I draw on these concepts to help support the model in Fig. 5. and to help explain the emerging themes generated by the participants within this study. In the development of advanced clinical practice education, I place the clinical environment central to the focus of the learner, which is based upon the student advanced nurse practitioners’ experience explored within this study and on educational theory. The clinical environment features heavily in the interview and diary data (Chapter Five, sections 5.5 to 5.5.8) and appears central and key to practice and overall development. I find support for this suggestion via the literature in the study undertaken by Shearer and Adams (2012). The study considered the thoughts and experiences expressed by ten students undertaking a master’s in advanced practice. The authors analysed qualitative data captured through a semi-structured interview of twelve questions, as the students entered their final or penultimate module. The students viewed the development of their clinical skills extremly positively, with improvement in clinical assessment skills emerging as one of the themes of the study. Four additional themes were identified which included increased confidence, the importance of networking, increased autonomy and the benefits of having an educational framework. The authors concluded that having appropriate clinical support and academic course content were important aspects, with the inclusion of opporunities to network with peers and lecturers and a greater understanding of the adavnced nurse practitioner role in general (Shearer and Adams, 2012).

From the data emerging from my own study, there is a sense of needing improved clinical ability, which is supported by knowledge and skill that makes a real difference to pateint care, by keeping the learning useful and in context. How the student learns to adapt between clinical and academia may well require greater collaboration between HEIs and the clinical environment in order to develop skill through ‘doing’. This concept is captured within the ART model in Fig. 5. It is a bottom up approach to curriculum design that acknowledges the impact of academia in its provision of knowledge. However, clinical need will in many ways drive that academic response, for example in the enhancement of evidence based practice. Exposure and clinical engagement offer the real time opportunity to explore and reflect upon how the advanced clinical practitioner will manage a given situation, but for this to be effective support is required to develop confidence through confirmation that what they are doing is correct. These are the findings of this study, producing the emerging themes of Clinical, Confirmation, Academia/Education, Reflection and Thought, which are depicted in Fig. 5.

## 6.8.2 Jerome Bruner and Malcolm Knowles - The authors influence on the proposed curriculum design.

The ART model (Fig. 5) encompasses the themes emerging from this study, but the process of acquiring and then developing knowledge is often complex and at the mercy of several influences. Jerome Bruner (1996) explores some of these complexities in his book ‘The Culture of Education’. Although the focus was on the educational development of children, Bruner considers how development is influenced by habit and culture, including what teachers perceive should be learned and assessed. Jarvis (2004) refers to Bruner’s work in relation to adult education suggesting that curiosity is aroused in adults when their socio-cultural world no longer supports their knowledge to deal with a current situation. By structuring adult learning through a sequence of developing knowledge, the learner is able to grasp and transform what they are learning (Jarvis, 2004). An interesting point raised by Bruner (1996) is that learning how to perform a skill well, is not the same as becoming adaptable and flexible in that skill, which is achieved through a combination of practice and cognitive reasoning. This reflects the difference between competency and capability which is discussed in section 6.4 of this chapter. How this is realised is not merely through books, lectures and examinations, but by involvement in the practical, through which the individual develops habits that are enhanced by knowledge ‘through doing’ (Bruner, 1996). This notion has been utilised in the development of the ART model (Fig. 5) by focusing on the academic contribution to real life learning and how this process may be realised when challenged by emotional need and development of confidence. This idea raised by Bruner (1996), that flexibility and adaptability is enhanced by a partnership between the theoretical and clinical environment, is supported by the findings of this study and discussed in Chapter Five, section 5.5.6.

The concept that knowledge enhances practical skill development by the very nature of undertaking that skill, finds support from Malcolm Knowles (1990). According to Knowles (1990), adult learning theory suggests that during maturity a person develops a self-directed approach, only becoming receptive to learning when they have a personal need to know. Adults are said to be self-motivated, seeking to problem solve and reflecting on their personal life experience to guide their learning (Knowles, 1990). Considering the theories of both Bruner and Knowles, student advanced nurse practitioners, as adults, are more open to learning and development when they perceive a need to understand, which when placed within the clinical environment offers an application that is in context, being both practical and cognitive in design. These theories have been influential in the design of the ART model (Fig. 5), but in particular the emerging themes from my own research have impacted on its construction reflecting the experiences of the participants.

However, I return to Fig. 4, which proposes the complexities of designing a curriculum that is both generalist and yet offering a depth of knowledge that meets specialist requirements. This is certainly a challenge, but one that may be addressed by considering the Zone of Proximal Development (ZPD) and the educational theories proposed by Lev Vygotsky (1998).

## 6.8.3 Lev Vygotsky - the author’s influence on the proposed curriculum design.

Vygotsky, a Russian psychologist, influenced thinking around the question of how the human mind is developed. He suggested this occurred as a result of the social, cultural and historical conditions that shaped the mind over time, through childhood onwards. Daniels, Cole and Wertsch (2007) explore Vygotsky’s theories and propose that to understand the mature mind, one must understand how it has been shaped from childhood by a process of stimulus and response. The authors imply that this development is created through socialisation, which is then internalised to create greater understanding and support for change. However, this is not without its critics and the authors indicate that this does not account for the complexity and diversity of cultures, which would inevitably impact on individuals in different ways (Daniels, Cole and Wertsch 2007). Bruner (1969), who did not consider himself a full Vygotskian in his thinking, was interested in the concept of culture and its relation to education. Bruner speaks of his belief in the sharing of knowledge and ideas within a classroom of children, exchanging roles and reflecting upon the activity of a group. This I would suggest links well with the concept of communities of practice, which is identified as important in section 6.5 of this study.

An interesting paper by Shabani *et al.* (2010) considered the impact of Vygotsky’s work related to the Zone of Proximal Development (ZPD). The authors explore the work of Vygotsky in relation to the development of language teachers. The paper highlights Vygotsky’s theories in terms of the individual, social and cultural aspects, but with a focus on ZPD. ZPD, the authors suggest, is defined as the perceived distance between what is learned by problem solving and the level that can be potentially attained by solving a problem through the support of others with greater capability (Shabani, *et al.* 2010).

I refer to Vygotsky and Bruner and indeed the application of such theories in the work of others (Shabani, *et al.* 2010), to highlight a relationship between the emerging themes from this study, which are confirmation, clinical, academia/knowledge and reflection. The theories support the emerging themes and help reinforce the development of the ART model (Fig. 5). Considering the theories, adult learners have already developed their perception of the world, as they understand it, but the ART model (Fig. 5) identifies how this can be questioned to support change and development. There is acknowledgement within the model that collaborating with others with greater understanding via clinical supervision, offers a joint exploration of an event or situation which helps support problem solving. This clinical and academic fusion assists reinforcement of knowledge and skills development, which will enhance personal progression and safer clinical practice. These concepts are at the very core of the ART model. Placing these educational theories in the context of curriculum design seeks to address some of the experiences raised by the student advanced nurse practitioner participants in Chapter 5, sections 5.5.1 to 5.5.8.

Therefore, a curriculum that supports the development of advanced clinical practice requires something more than academic input alone. Dewey (1916) addressed this issue when he suggested that increasing formal teaching to the detriment of learning in context could drive a wedge between the two approaches (see section 6.8.1). The outcome of this is to potentially create a ‘theory practice gap’.

## 6.8.4 Addressing the theory practice gap - Exploring this issue through the work of David Kolb and Donald Schӧn.

To prevent a perceived theory practice gap there is a requirement to ‘pull it all together’ and this is certainly expressed in the findings from this study when the participants speak of applying their theoretical knowledge to the clinical environment (Chapter Five, section 5.5.4 to 5.5.6). When considering the theory practice gap, I turn to David Kolb (2015) in his book entitled ‘Experiential Learning: experience as the source of learning and development’. The author points out that some key issues related to professional education are focused upon the production of autonomy. Autonomy is referred to on a number of occasions by the student advanced nurse practitioners within this study (see Chapter 5, section 5.5.2), who see this as a fundamental aspect of practising at an advanced level. However, according to Kolb (2015), by creating autonomous practitioners there is a tendency to isolate the individual, which creates difficulty when team working, where collaboration is required to find solutions to complex situations. Kolb (2015) suggests that this can lead to a lack of development in self-awareness of behavioural and ethical values, which are clearly important in health care practice. This point is also raised by Woods in 1997, when referring to advanced nurse practice. Woods (1997) highlights that such roles are not autonomous, but complimentary and collaborative in terms of optimising patient care. Within this study, this shared approach is noted in the form of clinical supervision. This combination is both supportive in developing the autonomous practitioner, but also instructive in providing feedback and the growth of confidence in clinical decision making (section 6.9), which is captured within the ART model depicted in Fig. 5.

The findings of this study indicate that the theory practice gap can be reduced by an educational structure that reflects clinical need, provides the theoretical underpinning for clinical reasoning and supports this through clinical supervision to help nurture reflection in action (Fig. 5). Support for this finding is found in the work of both Kolb and Vygotsky. Kolb’s (2015) view appears to align with that of Vygotsky (1998), when he refers to learning being a combination of personal knowing and interaction with the outside world, therefore being development through exposure and curiosity. Kolb (2015) refers to the acquisition of knowledge as not linear or particularly cyclic in design, but spiral, developing through repeated knowing and questioning which occurs through environmental contact. This concept is reflected through the voice of one of the trainee advanced clinical practitioners who participated in this study, and which can be seen below.

*“you’ve gone home and read about it, so that next time you’ll not only know perhaps what’s not right, then you’ll reflect on how did I feel when I was out of my comfort zone on this, you’ve enhanced your knowledge because you’ve gone home and read about it and then you’ve reflected on it and gone’ OK this is how I feel’ this is what I’ve done, this is what I would do next time” (NI6)*

This concept of development grown from reflection upon experience is referred to by Schӧn (1983). Schӧn (1983) refers to reflection in action which is based on intuitive knowledge that is arrived at by previous experiences. According to Schӧn (1983) these previous experiences are then challenged, criticised, reconstructed and amended at the point of exposure. However, Schӧn makes clear that this process can be supported or inhibited by organisational structure. This concept is realised within the development of the ART model (Fig. 5), which offers a structure that can be adopted into clinical practice to encourage reflection, critical thinking and supported application of skills and knowledge. Evidence for this structured approach is indicated within this study in Chapter 5, with section 5.5.8 suggesting that it is not simply the support of the university curriculum that is important, but that the employing organisation must provide structure within clinical practice at the commencement of advanced clinical practice education.

Reflecting upon previous experience is evidently helpful in making sense of and utilising new knowledge. Rolfe (1996), when referring to the theory practice gap, indicates that the inherent knowledge of nurses, acquired from previous clinical encounters, informs their current practice and that the alteration between theory and practice is immediate, bringing experiences and understanding together at point of need. This may be so, but from the findings within this study and when considering advanced clinical practice development, there needs to be greater structure to support that transition at point of need. This is specifically expressed by the student advanced nurse practitioner participants in Chapter 5, section 5.5.8.

From the data emerging from this study, there are challenges related to the theory- practice gap which have an emotional impact. Feelings of being a ‘novice’ and realising ‘gaps in knowledge’ do not support confidence and the development of capability and self-assurance, which is also discussed in Chapter Five. The ‘capable practitioner’ as identified by participant NI4 (see Chapter 5, section 5.5.8), is noted in Patricia Benner’s ‘Novice to Expert’ (1982). This expression of being a novice is captured by Pat Benner (1982) in her seminal text related to nurse development. The author suggests that the experienced capable practitioner is proficient in their practice. What appears to be the experience of this participant is a return to a ‘novice’ advanced practitioner, who has little knowledge of the requirements of the role. This knowledge gap from the interview data appears to suggest potential feelings of inadequacy, which can be destabilising for the student advanced nurse practitioner, and which is discussed further in section 6.13. An important aspect of supporting, developing and applying knowledge and skill at point of need must therefore be associated to an educational model that reflects clinical practice (see Fig. 5) and an effective organisational arrangement (Schӧn, 1983). This organisational arrangement could be provided in the form of clinical supervision.

## 6.9 Clinical supervision - creating communities of practice and placing theory into real time.

Within health care practice, clinical supervision is suggested as an overarching term relating to opportunities for developing knowledge and skills through advice or support. It is a structured and protected time for learning within the clinical environment and can be on a one-to-one basis or offered through groups (Simpson, *et al.* 2017). According to the Care Quality Commission (CQC), clinical supervision has three elements, clinical, managerial and professional supervision (CQC, 2013). Clinical and professional supervision are closely intertwined, with clinical supervision offering an opportunity for reflection on practice through case-based discussions and identification of learning points, whilst professional supervision ensures development and practice are aligned to professional codes of conduct, policy and continued professional development (CQC, 2013). Snowdon *et al.* (2017) undertook a systematic review of the literature to explore the impact of clinical supervision on patient care and patient experience. The authors suggest that clinical supervision is a period of guidance, offered to a qualified health care professional by a more experienced practitioner. They conclude that clinical supervision supports the delivery of effective patient care and outcomes, however there was no evidence of its impact on the patient experience (Snowdon, *et al.* 2017).

The findings of this study certainly suggest that it is important for clinical supervision to be supported by a collaboration between the health care provider and the Higher Education Institution (HEI) and delivered in an environment that fosters a culture of learning and empowerment in order to develop a sustainable workforce, which includes advanced clinical practitioners. These sentiments are echoed by Health Education England (HEE 2017) in their Quality Framework (HEE 2019) document, which was produced to provide a structure for health care professional’s education, training and workforce transformation.

Clinical supervision features prominently in the findings of this study. The educational theorists identified within this study support the effect that the environment plays upon the development of individuals (Dewey, 1916; Vygotsky, 1998) and the support that may be needed to help cultivate and make sense of that experience (Dewey, 1916; Schӧn ,1983; Vygotsky, 1998). What is also clear is that self-motivation and a need to know (Knowles, 1990) helps drive curiosity when current understanding no longer supports the new experience (Jarvis, 2004). Therefore, creating opportunities where experiences can be identified, discussed, communicated and supported, creates a place for reflection, reconstruction, development and promotion of autonomy (Dewey, 1916; Schӧn, 1983; Knowles, 1990; Vygotsky, 1998; Jarvis, 2004; Kolb, 2015) which can be seen in the ART model in Fig. 5. The interwoven role that academia, provided by HEIs, can play in securing and enhancing that experience, is also depicted in Fig. 5. Enhancing this collaboration would help develop an educational curriculum from the bottom up; one that reflects clinical need as discussed in Chapter 5, section 5.5.5.

Devising curricula that is embedded and meeting the ever-changing requirements of clinical practice is a challenge. The curricula require an educational structure that is flexible, whilst addressing robust educational need. A focus on clinical requirements which will subsequently meet service need and high-quality patient care must be the end goal. The curricula must also reflect the capabilities of national frameworks (HEE 2017, IFA 2018), to provide an accepted benchmark by which capability can be measured. The individual emotional needs of the trainee advanced practitioner must also be considered, whilst ensuring they acquire what they need to know to be the right person, in the right place, at the right time (NHS, 2019).

## 6.10 Devising a curriculum that addresses need - a model.

In sections 6.8.1 to 6.8.4 I consider the influence of learning theories on the emerging themes related to this study and the development of the ART model (Fig. 5). I make reference to communities of practice and the work of Lev Vygotsky (1998), to instil a sense of personal growth through reflection, recognition of self and others, the importance of the clinical environment in development of new thinking and the need for clinical support and supervision during this progressive period of change and learning. However, an interesting theory suggested by Engestrom and Sannio (2010) considers what it is to learn. The authors propose the theory of expansive learning, which has its roots in the ideas put forward by Vygotsky (1998) and which offers a different perspective on how learning is acquired.

The difference with expansive theory is the need to consider what is meant by ‘learning’. Engestrom and Sannio (2010) question if learning is indeed about acquiring, creating and preserving culture, is it vertical and structured in the acquisition of competence or is it, as the authors suggest, transformative, creating and forming knowledge and competence? What is interesting in relation to this work, is that the authors propose that in expansive learning what is learnt is something that is not yet present. The learner devises their understanding from an object and creates concepts from a communal activity, which is then applied to their practice. In context, Engestrom and Sannio (2010) are suggesting that programmes of learning are designed to meet need, but the needs are a shifting entity and so what is to be learned is not static and does not originate from a single point but is the product of multiple agencies and created from debate, compromise and organisation.

This concept resonates with the design of the ART model (Fig. 5.). The learning is created by the clinical exposure, which is entirely mobile, offering multiple opportunities for clinical debate and development of clinical reasoning. However, as discussed in section 6.8.1 regarding the criticism of Dewey’s work, the learning cannot necessarily always be left to random opportunity and a structure to its delivery is required to ensure progression. This notion of learning from multiple directions is also echoed within the literature by Bergstrom and Lindh (2018) when referring to horizontal and vertical learning. The authors propose that horizontal learning relates to clinical learning, with vertical learning being academic in design. The authors suggest that both horizontal and vertical learning relate to overall learning, which can be observed via common sense or be theoretical in nature. Learning is therefore not an isolated affair, but is transformed by a collective engagement of networks, that encourage the individual to question and debate in their journey to further development (Engestrom and Sannino, 2010). The findings of this study do resonate with the literature discussed here (Engestrom and Sannino, 2010; Bergstrom and Lindh, 2018) in that the learning is derived from multiple sources (Chapter Five, section 5.5.6) but I would suggest that it is a more complex phenomenon. The findings of this study would also suggest that learning fluctuates between reflecting, thinking and knowing, reflecting again and application. This is depicted within the ART module (Fig. 5) and suggests that learning is not entirely vertical, horizontal or collective, but revisited, reinforced and reinvented.

There is a relationship between the emerging themes: confirmation, clinical, academia/education and reflection, from this study and the associated educational theories of Dewey (1916), Vygotsky (1998), Bruner (1996), Kolb (2015) and Knowles (1990). It also resonates with the argument made by Engestrom and Sannino (2010). All authors see development though one’s experiences, culture, perceptions and the ability to share, reflect, learn and the ability to debate that understanding within communities that are designed to support development. Jarvis (2004) suggests that Bruner (1996) focuses upon human curiosity as a precursor to learning, which supports the themes of academia/education and reflection. Dewey (1916) and Knowles (1990) identify the need for the adult to be motivated to learn, so that the educator’s role features more as a facilitator in the process, which is seen in the theme ‘confirmation’. Vygotsky (1998), according to Jarvis (2004), suggests that development of the individual is dependent upon relationships and collaboration, which can be identified within the ‘clinical’ theme and the need for support, reflecting the theme ‘confirmation’. Although Kolb’s (2015) learning cycle suggests a reflective process related to experiential learning, Jarvis (2004) is critical of this description claiming that it is too simple and does not capture the complexity of human learning. However, the theme ‘reflection’ is related to using primary and secondary learning as identified by Jarvis (2004). Primary learning relates to the here and now, clinical practice, and secondary learning to taught theory, which relates to the theme education/academia within this study. Reflection, also identified as a theme, allows for a moment to pause, think, plan and apply which is based on suggestions by Jarvis (2004). In addition, Engestrom and Sannino (2010) also refer to the concept that generalisation is at the heart of learning. What is proposed by the authors is that by generalising, what emerges is the ability to conquer variation. The importance of variation is that it helps restructure and develop processes, which consequently leads to optimisation (Engestrom and Sannino, 2010) and the ability to adapt to different situations. This is an interesting concept and one that I feel is important in the development of advanced clinical practice. By offering a curriculum that has a generalist focus, the student engages with a broad curriculum that can be adapted to accommodate variation, through focusing that knowledge upon their own area of clinical practice. This concept is represented in Fig. 6 and discussed in greater detail below.

The debate over generalist advanced clinical practice versus specialist advanced clinical practice is discussed in Chapter One, section 1.3 and referred to again in section 6.3 of this chapter. However, both are nonetheless advanced with their differences being defined by the ICN in 2020 (see Chapter One, section 1.3). What is important to consider is that patients are presenting with more complexity (NHS, 2019) and therefore generalist skills could help address the wider, complex, and diverse presentations encountered. If we relate this to the work of Engestrom and Sannini (2010), then a broad and generalist academic foundation of learning will provide the learner with the skills to adapt to variation and with it the ability to optimise care.

Based on the educational theories discussed in sections 6.8.1 to 6.8.4 and in contemplation of the emerging themes created by the participants in this study, Fig. 6, The Focused Thinking model, assists in modelling the relationship of a generalist programme of study, which is aimed at supporting the development of advanced clinical practice.

The broad and generalist requirements of clinical practice, such as history taking, effective communication in the consultation process, clinical examination, clinical reasoning and using evidence to make appropriate diagnosis, help form comprehensive, overarching theoretical knowledge. This is depicted within the Focussed Thinking model (Fig. 6) as a ‘general programme’ of study providing the requisite knowledge and skill to all student advanced clinical practitioners. This knowledge can then be applied to and focused upon the student advanced practitioners’ clinical environment, with the support and collaboration of the academic provider, health care provider and the inclusion of clinical supervision. This is identified within the Focused Thinking Model (Fig. 6) by the inverted pyramid, focusing upon the student’s own area of clinical practice, which is orientated to clinical need. The broken red lines refer to the inclusion of diversity within the student’s area of clinical practice. This opportunity for clinical variation will hopefully help develop a degree of flexibility through experience, reflection and restructuring of that experience via the acquisition of new knowledge (Dewey, 1916; Schӧn, 1983; Knowles, 1990; Vygotsky, 1998; Jarvis, 2004; Kolb, 2015), assisting in optimising the development of the learner (Engestrom and Sannio, 2010). Designing a curriculum that supports a degree of varied clinical exposure to related areas of practice, helps facilitate the development of a deeper understanding, thus supporting adaptability. What the model in Fig. 6 proposes, is that by reflecting upon clinical practice, with the knowledge from a generalist programme, the student advanced clinical practitioner can focus upon their clinical experience and be challenged by that exposure, whilst receiving support from a community of practice. This structure will help individuals expand their knowledge and the ability to vary and adapt their responses, thus developing capability.

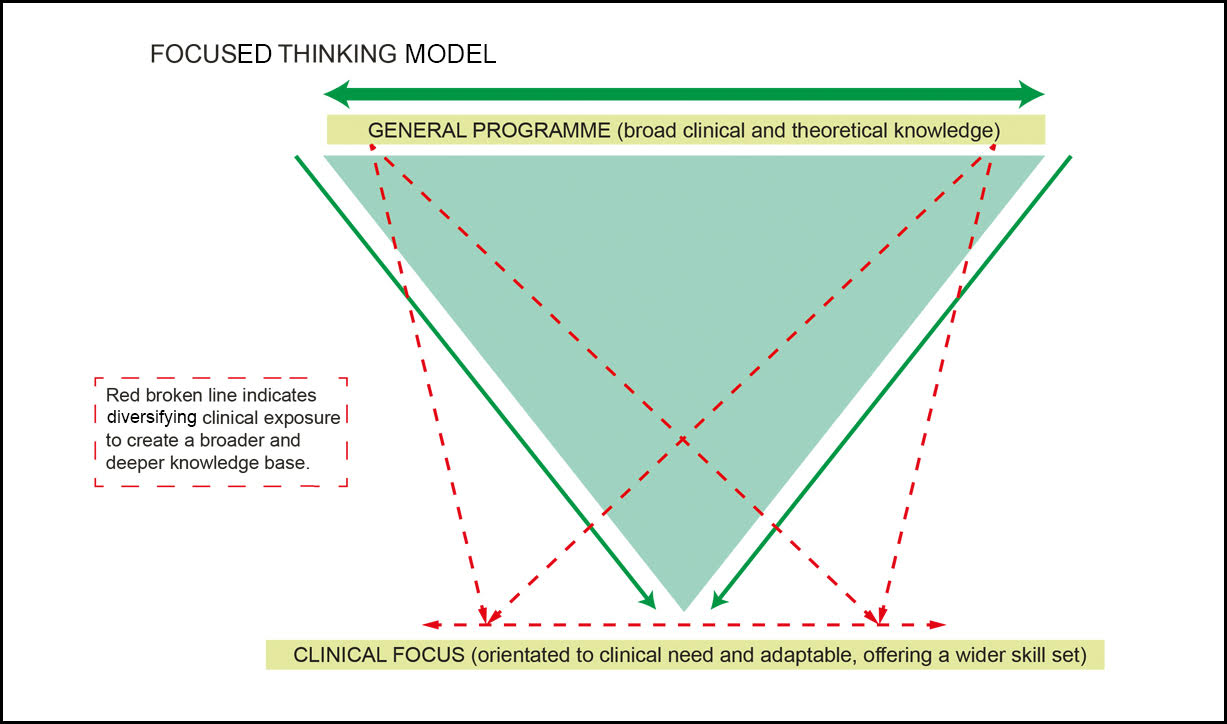


Figure 6. The Focused Thinking Model

When I speak of a generalist programme, I refer to one that meets the requirements of national policies related to advanced clinical practice as previously discussed (HEE, 2017; IFA, 2017). The capabilities indicated within key documents (HEE, 2017), briefly relate to the general ability to practice within professional boundaries, lead and communicate effectively, utilise expert decision-making skills and contribute to a culture of learning and research. These are broad skills, which can then be focused upon an area of clinical practice (Fig. 6) which, with the support and guidance of an experienced clinical supervisor (Crossley and Jolly, 2012) using reflection, debate and negotiation as indicated in the ART model (Fig. 5), will help the student advanced clinical practitioner demonstrate their ability on that focused area of practice.

The learning becomes meaningful, expansive and developed in the context of what is real, and therefore managed at point of need. These points relate to the earlier discussion within this chapter. What is key about the model suggested in Fig. 6, is the broad overview of skills that are generalist in nature:

* The ability to take a history from a patient and in order to do so, communicate effectively.
* The ability to structure a consultation and from that decide with the patient and their family what possible examination and investigations may be required and agree a plan.
* The ability to create possible differentials and refine such considerations into diagnoses, having an understanding of how they have arrived at that plan.
* The ability to clinically reason as to why they need a particular investigation(s) and how they will interpret and respond to the outcome.
* The ability to prescribe, both from a pharmacological point of view and socially.
* The ability to appraise research which underpins their knowledge and skill and have the ability to engage or initiate research.

The skills of the advanced clinical practitioner, according to national policy (HEE 2017, IFA 2017) are broad and so to make such generalist skills applicable to the individual, one must focus them to the immediate need and that need, I would suggest, is generated by the student advanced clinical practitioners’ clinical activity and the patients in their care in their area of practice.

## 6.11 Defining curriculum content.

The Focused Thinking Model (Fig. 6) acts like a funnel to direct a lens upon the student advanced clinical practitioners’ clinical practice using knowledge gained from a generalist programme of study. The model outlined in Fig. 6, has close links to The ART model in Fig. 5. Both models support a bottom-up approach to curriculum design, supporting the development of advanced clinical practice by adopting a generalist approach, that allows individual practitioners to gain broad skills that recognise the four pillars of advanced practice (HEE, 2017). Through a ‘bottom up’ approach they help capture the reality of clinical practice, reflecting upon the relationship between experience and theoretical knowledge, which together, with informed support, challenge pre-conceived ideas to help form new thinking (Dewey, 1916; Schӧn, 1983; Knowles, 1990; Vygotsky, 1998; Jarvis, 2004; Kolb, 2015). Confirmation of capability and competence to meet the four pillars and practice safely and effectively is supported through the structured provision of clinical supervision.

Additional check points that help to monitor progression are provided by the ‘gateway’ which forms part of the apprenticeship standard ST0564 and which confirms the ability to advance between the academic institution, student and employer. Support to progress and acknowledgement of progression feature heavily within this study (see Chapter Five, sections 5.5.1 and 5.5.8). From the interview and diary data it is clear to see the importance placed on developing the correct skills to practice effectively and safely and the assistance required to develop the requisite level of capability. This sentiment is echoed by one of the student advanced nurse practitioner participants within this study.

*“of course, it’s all clinical and that’s what the supervisors see…. I think some of them may see it as a task, an exercise for them, but for us it’s definitely important, it’s our backbone, to know that we are working at that level, and I think that consultants are quite happy to watch and know that you’re working at that… do they care?....honestly?...yes they do, they want to know that we are safe practitioners, I think they’ve got to have that confidence in you haven’t they?” (NI9)*

This focus on clinical capability is reflected in both the models developed by this study, featured in Figures 5 and 6. The models focus on the learning being placed in the real world, which is supported by educational theories (sections 6.8.1 to 6.8.4) relating to learning from one’s exposure to events and learning from that experience. It must be noted that these models are developed from data that relates to student advanced nurse practitioners and their experiences. Whilst the findings of this study may help inform curriculum that is designed to support advanced clinical practitioners from other professional backgrounds, it may not recognise the professional differences that can exist between the professions. Indeed, the multi- professional framework (HEE, 2017) is clear that development towards advanced clinical practice may be different for individual practitioners, with scope of practice and capability being different in relation to role and profession.

However, both models (Fig. 5 and Fig. 6) offer structure to the developmental process, so that it is not accidental, but regulated and organised. I have referred on several occasions to the important role of the clinical supervisor, indeed two of the participants within this study were acting medical clinical supervisors to the trainee advanced nurse practitioner participants. However, it is important to determine what the clinical supervisor role is for in relation to the development of student advanced nurse practitioners, when compared to supervision within other health professions.

## 6.12 Learning in clinical practice; the importance of effective clinical supervision in supporting curriculum design.

Scott and Spouce (2013) attempt to draw distinctions between different clinically supporting roles. They refer to the role of ‘mentor’ as a person who supports someone in the relationship to learn. Other terms suggested by the authors that link with clinical support in relation to learning is ‘coaching’, which is suggested as someone who helps support a lasting change in behaviour by establishing goals and identifying how they might be achieved. The term ‘supervision’ is selected for those who oversee development and is usually related to individuals who are in a senior position and experienced (Scott and Spouse, 2013). It is the role of supervisor that I feel best fits the person required for advanced clinical practice development and accommodates the clinical need of ‘overseer’ for expansion of knowledge and skill at point of need, which is discussed in Chapter 5, section 5.5.5.

Despite such support there are challenges to teaching in the clinical environment and these are identified within the literature by McKimm and Swanwick (2010). The authors refer to challenges such as workload, increased paperwork to evidence learning, shifting expectations, time and resources, competing demands and concerns related to the delegation of work. Encouragingly, the authors identify ways in which such difficulties may be overcome. They indicate that clinical learning might be enhanced by being explicit to the learner about what the opportunities are. McKimm and Swanwick (2010) make clear that ‘how to do the job, is by doing the job’ (McKimm and Swanwick, 2010, pg. 38-42) and that by identifying what might be learnt and seen helps set goals and recognise areas for development and strategies to achieve a positive outcome. There is certainly evidence within this study that suggests that time is a challenge to facilitating effective clinical supervision (Chapter Five, section 5.5.8), but there is a willingness and desire by the medical clinical supervisors to offer their expertise and guidance and there is a sense of frustration in being unable to achieve this.

However, acknowledging the example given by McKimm and Swanwick (2010), identifying opportunities for learning through an event or situation allows the student advanced clinical practitioner to seek out knowledge and reflect upon its applicability at a later point via debrief. This form of delayed supervision is evident within the data emerging from this study and is referred to in Chapter Five, section 5.5.8 by one of the student advanced nurse practitioner participants speaking on the impact of self-directed exploration, followed up by later feedback with the clinical supervisor. Whether the clinical supervision is of the moment or arranged at a later point in the form of a debrief or case-based discussion, it is the fact that the supervision takes place and is of a high quality that appears important.

There is also support for effective clinical supervision within the literature by James Crossley (2014) who makes an interesting point in his paper entitled ‘Addressing learner disorientation: Give them a roadmap’. Crossley (2014) refers to the importance of clinical supervision, but supervision that is of a high quality, which allows transformation of the learner from indecision to self-assurance and certainty. The author speaks of a roadmap curriculum that can relate to the bigger picture but allows for a focus upon the complexity of learning in context. Crossley (2014) suggests that the notion of a road map curriculum will provide alignment of clinical capability through education, clinical practice and a clear route to professional development. Within the paper by Crossley (2014) there is acknowledgement of John Biggs (1996) who termed the phrase ‘constructive alignment’, which refers to aligning teaching, learning and assessment to reflect the required learning outcomes. What Biggs (1996) recommends is the combining of both theories related to constructivism and those of instructional design. By so doing, a framework is created to guide learning with instruction, which is aimed at measuring performance and higher-level thinking. Biggs points out that the levels of performance need to be arranged in hierarchy and that the students must be placed in an environment where the required learning can be accessed. The student is then expected to provide evidence that the required level of performance has been met. To achieve this outcome, Biggs (1996) proposes that the instructional assessment is merged within a framework of development to create a structure of assessment and progression that is aligned, termed constructive alignment (Biggs, 1996).

This alignment discussed by Biggs (1996) is to some degree applied to the ART model, Fig. 5. The model makes an association between theoretical academic knowledge and clinical exposure to an event and creates an affiliation between them that is structured. This affiliation helps support the development of higher-level thinking with the additional assistance provided by clinical supervision. Student advanced nurse practitioner participants within this study refer to the need for structure and emphasise its importance in generating motivation and providing a relationship between theory and practice which is discussed in Chapter 5, section 5.5.4.

This study identifies the importance of support within the clinical environment for the development of advanced clinical practice. It also identifies the significance of the clinical environment and its impact upon the students advanced nurse practitioners who took part in this study. Clinical learning requires recognition and support, and this is noted by Health Education England (2020) in their work related to workplace supervision. The study identifies a collaborative approach, to create education supervisors and workplace supervisors that generate a link between HEIs and the clinical environment. It is suggested that supervisors from across the health professions must be aware of the scope of practice to help expand advanced clinical practice roles to deliver high standard patient care (HEE, 2020) and address the individual professional development needs.

## 6.13 Emotional challenges to developing advanced clinical practice.

Despite structure and support, the ART Model (Fig. 5) also acknowledges the emotional stressors placed upon the student advanced nurse practitioners. These challenges are numerous and referred to throughout this study (see Chapter 5), but many relate to feelings of frustration, a lack of definition for the role of advanced nurse practitioner, a lack time to study and work, a lack of time for good quality clinical supervision, a need to be able to tie it all together and develop confidence to practice at an advanced level and feelings of obstruction to progression, which is irritating and concerning to the trainee. These emotions are discussed within Chapter Five sections 5.5.1 to 5.5.8. However, student advanced nurse practitioners are experienced clinicians and although this study considers nurses only, advanced practitioner roles are being developed from several health care professions, so these emotions may not be unique to nursing and could be the focus of further study.

From Novice to Expert developed by Pat Benner in 1982, explores the various development stages from a novice nurse, who has little if any experience, through to advanced beginner, competent, proficient, and finally expert. What is interesting is that Benner (1982) refers to experience as not necessarily resulting from longevity of service, but from the actual numerous and often practical experiences that accumulate, and which provide knowledge. On the other hand, theory, according to Benner, is a guide which helps enhance questioning via which practice can be adapted, but she insists that clinical practice is always the more real and often more complex than theory could ever hope to be (Benner, 1982). Experienced practitioners who may wish to access a programme of study aimed at developing advanced practitioners are often experts, in Benner’s view proficient, adaptable and extremely experienced. However, in their journey towards advanced practice the ‘novice’ advanced practitioner may struggle with little if any experience of the role and expectation of what it is to be an advanced practitioner, as do others who practice alongside them. This issue is raised in Chapter one, but evidence for this can be seen in the interview data associated with this study in Chapter 5, section 5.5.2.

Such experiences surrounding identity, lack of role definition and what is expected of an advanced practitioner are destabilising. From the interview data relating to this study, it is clear that the participants feel that until advanced practice is clearly understood by the health care professionals working alongside the advanced practitioners and public (see section 5.5.2), investment in its development will not be forthcoming. This destabilisation is echoed within the literature by Morgan *et al.* (2012) in their reflective article related to an advanced practice curriculum design. The authors highlighted the challenges experienced by advanced clinical practitioners as they journey from expert to novice and back again. Yet a structured approach to the education of advanced clinical practitioners may help to address this emotional yoyo. Taking into account educational theories associated with knowledge and skill acquisition, as discussed within this study, will help understand and structure curriculum that takes account of the impact of the world around us on our continued development and that challenges our perceptions. The ART Model (Fig. 5) which is embedded within the clinical environment, takes account of this and incorporates the point raised by Benner (1982), which is that clinical practice is often complex and real, unlike theory. The ART Model (Fig.5) utilises the complexity of clinical practice by incorporating ‘clinical exposure’,’ thought provoking encounters and ‘reflection’, but also advocating ‘application’ which is the clinically reasoned management of the clinical situation, facilitated by clinical supervision. In addition, ‘confirmation’ within the model acknowledges the correct application of skills and knowledge to clarify capability and competence using the support of the clinical supervisor. However, ‘theory’ is needed to support the development of clinical reasoning and therefore academia has a strong presence within the ART Model.

## 6.14 Limitations of the study.

I recognise that I have prior knowledge and understanding impacting on objectivity and unbiased interpretation. I discuss my positionality in Chapter Three, section 3.17 when referring to the methodology. I have knowledge of the students as the lead for the master’s programme they were studying at the time. This relationship and personal association with the students and the chosen case study itself, may have had some impact on the data collected, which in turn may have led to different conclusions being drawn. These points are also raised by Simons (2009), when speaking of the perceived limitations of case study qualitative research. Referring to Simons (2009), the author makes several points on the subject that I feel are relevant here. Transparency is key, an honesty regarding my involvement and relationship has been addressed, timelines and participants are identified which evidences the historical nature of the data. One key point to recognise is that qualitative case study is not there to generalise (Simons 2015), as generalisations, according to Thomas (2011) are difficult to make when we are dealing with the social world. What Thomas (2011) implies is that phronesis, which is practical knowledge based on personal understanding, helps to create meaning out of particular occurrences. However, Simons (1980) also indicates the impact of the inside and outside researcher, where the researcher may create an imbalance between themselves and the participant (see section 3.17 related to positionality). This may result in questions over who has rights over the work, as what emerges may not be as anticipated by the participant nor the impact of the professional and research knowledge held by the researcher on the outcome (Simons, 1980). As a result of this, there remain some limitations to this study that require highlighting.

The student advanced nurse practitioner participants are at the end of their journey and reflecting upon that experience. A different view may have been obtained if the study commenced at the beginning of their studies and tracked their complete journey and experiences at different stages. This could form a longitudinal study for future exploration (Braun and Clarke, 2013) and is indicated here for possible further investigation.

The pilot study was not indicated for use in the original ethical approval. As this included some interesting participants, one of whom had experience of becoming a nurse, an advanced practitioner and then a doctor, in hindsight this may have been prudent to include.

The study considered one cohort of student advanced clinical practitioners at one university within the East Midlands. Whilst this allowed an in-depth case study of those nine students aligned to this methodology, comparison with other groups was not achieved which could have offered further insight into the experiences of student advanced practitioners incorporating more than one university and more than one cohort and curriculum. This could be the focus of a future study, where the findings of this study could be expanded upon, to compare professional differences across a number of universities and advanced practice programmes.

It was unfortunate that only two medical supervisors responded to the request for participation within this study. Although there was representation from both primary and secondary care, greater numbers would have potentially offered further data that could have further informed the outcome of the study.

As discussed within the study, advanced practice educators were not selected for possible participation. The reason for this has been discussed and relates to the focus of the study on seeking the experience of those who actually journey through the development and those medical supervisors who support them and work alongside them. This would, however, make for an interesting future study.

Advanced clinical practitioners are not solely recruited from the nursing profession, therefore the experiences within this study cannot be said to reflect those practitioners from other professions. For this reason, the findings of this study may be helpful to those designing curricula for other professional groups, but any differences between the professions would need to be considered, such as the different models of clinical supervision discussed earlier in Chapter 5, section 5.5.5. This could certainly be the focus of a future study, although I am sure, having contributed to the examination of advanced clinical practice education, several of the points raised in this study will resonate with other professions outside of nursing.

It must be noted that as can be the situation in case study methodology, data analysis did not take place until the data collection was complete and therefore it was undertaken as a complete process. Due to this, it is not possible to confirm data saturation. This is discussed further in Chapter 3, section 3.8.

The participants within the study were offered the opportunity to verify the transcription of their interviews, however they were not invited to offer’ member checking’ of the data post analysis. This would have been extremely challenging, as to accurately extrapolate data related to a particular participant that impacted on the wider themes would not have been feasible. Peer review during early data analysis did occur via a Doctor of Education Colloquium and through County held advanced clinical practice development meetings, where elements of the data analysis were presented. This is discussed further is Chapter 3, section 3.11.

In summary the strengths of this study lie in the inclusion of the participants voice in both the findings post analysis of the interview and diary data and their continuation into the discussion. This places the participant at the heart of this study and creates a transparency to the outcomes and recommendations discussed in Chapter 7. In addition, the choice of case study allows for the participants’ stories to be told and as Simons (2009) suggests creates an opportunity to scrutinise policies and programmes and how they impact in differing circumstances. This study identifies with educational theorists who link with the findings of this study and help create suggested educational models that may well assist academics to create curricula for the development of advanced clinical practice. However, as indicated above, there are areas that would have strengthened this study and should be considered if it were to be replicated. Although case study has allowed for an in-depth consideration of a single cohort of student advanced nurse practitioners and two of their medical supervisors, other methodological approaches may have supported a different approach to data analysis, such as Phenomenology and Grounded Theory. Although these approaches were rejected for reasons discussed earlier in this work, they could be considered in any future study or replication of this study to offer an alternative approach to management and analysis.

## 6.15 Conclusion.

This chapter brings together the voice of the participants within this study, the polices and national drivers for development of advanced practice and the learning theories that support advanced practice education and the acquisition of knowledge and skills. I have also linked Chapter Five and the emerging four themes generated by this study those of Clinical, Academia/Education, Reflection and Confirmation. Chapter Six has focused upon the findings of this study and interwoven these, with some of the participants voice, educational theorists and the national drivers related to advanced clinical practice. This has supported the development of the two educational models, The ART Model Fig. 5 and the Focussed Thinking Funnel Model Fig. 6, helping to structure advanced clinical practice educational curricula. The models help achieve this goal by identifying the need for an overarching generalist programme that can be focused onto the advanced practitioner’s area of clinical practice (Focussed Thinking model, Fig. 6). With clinical exposure, creating challenges and thought-provoking reflection on experiences that are related to the reality of clinical practice, the application and management of the situation, which is confirmed and supported by effective clinical supervision, can facilitate development of advanced practice (The ART model, Fig. 5). Although the national policies help determine the capabilities and competence required for advanced practice, they do not specifically say how this could or should be adopted into an educational programme. Universities already map to such policies, but it is anticipated that the outcome of this study helps enhance this question and indicates how a curriculum might be considered to support the development of advanced clinical practice, when dealing with the ever-changing demands of the clinical environment: a very bottom-up approach to curriculum design, which is concluded in Chapter Seven.

# CHAPTER 7 - Conclusion and recommendations for future developments.

## 7.1 Introduction

This study set out to consider the impact of a curriculum, designed to support the development of advanced nurse practitioners. It sought to explore their experience of how the master’s programme influenced their education and their clinical and professional needs as they journeyed towards advanced clinical practice. Policies and drivers that have and continue to guide and effect progression of advanced clinical practice have been discussed and their influence debated. The outcome has been the development of educational models, which are designed to aid in the structure of curricula that supports advanced clinical practice and those that study it. The design of the educational models has taken into account educational theory and the participant’s voice and experiences.

## 7.2 The emerging themes: their reflection within current practice.

The themes emerging from this study: confirmation, clinical, academia/education and reflection echo the experiences of the participants and focus heavily on the clinical aspect of their professional role. Although the literature is limited in relation to educational curriculum design aimed at advanced clinical practice, where it is available there appears to be an agreement that a curriculum that supports the development of clinical knowledge and skill, and which can be supported through clinical supervision, aids the transition to advanced clinical practice.

The key themes generated from the data analysis within the study have provided a basis for the suggested models, which will help inform curricula design and create debate around the subject of advanced clinical practice education. In Chapter Six, section 6.12, I make the case for HEIs to collaborate with those who reside within the clinical environment and are responsible for the education and development of advanced practitioners. To do this, HEIs must in many ways, adapt and become responsive to the larger influential environment that is clinical practice. One way this might be enhanced is through the development of the regional faculties which have been created by Health Education England (HEE, 2020). The seven regional faculties, which cover England, help to deliver updated pathways of care, improve patient safety and help with efficacy and value as identified in the NHS Long Term Plan (2019). To achieve this each region has appointed a team to help identify and support the needs of the local communities, highlight the value of advanced practice and importantly, collaborate with universities within the region, supporting accreditation for those who apply and meet the criteria (HEE, 2020). This offers an opportunity for universities to work with HEE and health care providers to effect change and support development of advanced clinical practice. To facilitate these regional requirements a broad generalist curriculum will provide the fundamental skills associated with advanced clinical practice which are outlined in related national policies (HEE, 2017; IFA, 2018). Utilising these generic skills, a student advanced clinical practitioner can focus upon their specific additional needs which are related to their area of clinical practice. Collaboration and the provision of excellent clinical supervision, by those who have expertise in the clinical field, is key to enhancing and supporting advanced clinical practice development.

## 7.3 The need for effective clinical supervision: incorporating the educational models.

Effective clinical supervision is without doubt essential to the success of placing the emphasis for educating and developing advanced practitioners primarily within clinical practice. Reflection at the point of, and after clinical exposure to events and situations, offers an opportunity for the learning to be placed in ‘real time’. This is enhanced using feedback and debrief with a clinical supervisor, utilising acquired academic knowledge which supports clinical reasoning (see The ART Model Fig. 5). This will allow for the student advanced clinical practitioner to experience, debate, have an opinion on and share sentiment that is then negotiated within the supporting communities of practice fostering transformation. It is important that the right person, with the right knowledge supports the trainee advanced clinical practitioner at the right time and in the right place, for the learning to be meaningful. This will take time to develop and a framework of support for the clinical supervisors will need careful consideration, which will also require investment. There has recently been a great deal of interest in the opportunities that effective clinical supervision can bring (HEE, 2020), which is discussed in Chapter Six, section 6.12 and this work would need to be dovetailed into the suggested models provided by this study. What this document does suggest is that clinical supervision should be provided not only by those who have the correct skills and knowledge, but also by supervisors who have insight into the requirements of the different professions. To offer such diversity a multi-professional approach to clinical supervision is required which is discussed in Chapter 6, section 6.12. This would help address the complex requirements related to specialist practice and the professional need that cannot be met by a single supervisor (HEE, 2020). This is a great opportunity for trained ACPs from different professions to use their skills in supporting and supervising the clinical development of trainee advanced clinical practitioners. However, support for supervision education will be required. An outline of how this will be addressed can be found in Workforce Supervision for Advanced Practice (HEE, 2020), section 7.4, with the exercises and support detailed in the document being found in Appendix 2. This will require the support of the employers, whose investment in supervisors would take the form of time out for supervisors to support trainee ACPs to meet the four pillars of advanced practice (HEE, 2020).

## 7.4 The support for a generalist advanced practice programme that has a clinical focus.

In addition to developing the support network offered to advance clinical practitioners through clinical supervision, adopting the national policies and drivers requires mapping into educational curricula. If we are to avoid a ‘tick box’ exercise in relation to their incorporation into the academic and clinical agenda, there needs to be a strong collaborative approach to their adoption. As discussed in Chapter 6, universities already map their curricula to the four pillars of advanced clinical practice (HEE, 2017), but further clinical collaboration as suggested by this study, may help incorporate the theoretical knowledge further to support clinical reasoning. A curriculum that is clinically based and developed from the bottom up with a focus on the exposure and reality that the clinical environment can bring, will allow for a mapping of the competencies and capabilities to the reality of practice (HEE 2017, IFA 2017). However, this structure will require involvement of the clinical provider in both the organisational structure and participation in the educational curriculum design. HEIs must seek such collaboration, utilising their knowledge of adult education and the national standards for masterly academic work. A generalist programme will offer a foundation of fundamental skills required by all advanced clinical practitioners, which can subsequently be focused to the needs of specialist practice. The Focused Thinking Funnel, Fig. 6, proposes a model to meet these needs, which is designed using educational theory, national policy, evidence-based practice, with the views and experiences of those who have knowledge and understanding of the subject and have thus participated in this study.

The models proposed within this study help support the design of curriculum aimed at the development of advanced clinical practice. However, they still allow individual educationalists the freedom to be innovative in how the indicative content and capabilities (HEE, 2017; IFA, 2018) are implemented and assessed. What is important is that this study indicates that a ‘bottom up’ approach to curriculum design is required, which is responsive to clinical need, but which utilises an educational structure that makes theoretical knowledge readily available and pertinent to clinical practice. This can be achieved at a local level, as previously discussed, via collaboration with HEE (2020) regional faculties and local stakeholders, to focus upon the health needs of patients and their families within a specific region. At a national level, this bottom-up approach to curriculum design is responsive to individual regional need, but with the ability to help fuse the four pillars of advanced practice (HEE, 2017) firmly within clinical practice where they can be discussed, critiqued, applied and confirmed in the reality of the clinical environment. This pedagogical view is reflected in the findings of this study and the discussion presented within Chapter Six.

From utilising both models, goalsetting and supervised self-development can be encouraged, documented and assessed. From this conclusion I recognise the current extensive support offered by HEIs within their advanced clinical practice curriculum and offer the following recommendations (section 7.5) to further enhance advanced practice curricula based on the findings of this study.

## 7.5 Recommendations.

* Continued collaboration between clinical and academic providers to map the national policy, capabilities, competency and behaviours related to advanced clinical practice and the opportunity for real time exposure.
* Further utilisation of the regional faculties identified by HEE (2020) to assist in identifying the specific regional health needs of patients and their families and focus the underpinning generalist knowledge to specific specialist needs of the population.
* Consideration of the themes emerging from this study, those being ‘clinical, academia/education, reflection and confirmation’, as the basis for a ‘bottom up’ clinical focus to curriculum design. This ‘bottom up’ approach is driven by clinical need, but is embraced by educational understanding, that correctly places the theoretical underpinning knowledge, making it accessible and applicable to clinical practice. This is the basis for the ART Model, Chapter 6, section 6.7.
* Consideration of the educational models proposed within this study as guides to implementing curriculum design that meet the academic, clinical and professional needs of student advanced nurse practitioners (see Chapter Six, ART Model section 6.7, Focus Thinking Model section 6.10).
* Consideration of the ART Model in its suggested support structure for advanced clinical practice development, acknowledging that learning may not necessarily be vertical or horizontal, but revisited, reinforced and re-invented. The ART Model, seen in Chapter 6, section 6.7, provides a structure that helps facilitate the application of theory to clinical practice by identifying the opportunity for:

**Clinical exposure**- the opportunity for enhancing capability would arise from exposure to a situation via clinical immersion.

**Thought provoking clinical encounter**- this exposure and subsequent stimuli, provides an opportunity for thought. This in turn creates an occasion for critical thinking, which is enhanced by the learning being in context and of the moment, therefore relevant and meaningful for that clinical setting.

**Reflection**- reflection upon previous exposure, knowledge/academia and skill, supports clinical reasoning and is a two-way process.

**Application-** is the ‘doing’, allowing for the clinically reasoned management of the clinical situation with the support of clinical supervision.

**Confirmation**- acknowledges the correct application of skills and knowledge to develop capability and confidence and is supported by clinical supervision.

The above staged approach, with the addition of effective clinical supervision can help utilise the student’s clinical environment and optimise opportunity for learning. It takes a clinical encounter and provides a thoughtful approach to making the most from the environment the student finds themselves in, such as a consultation, a clinical examination or reviewing a patients set of investigations. The structure requires an acknowledgment of thought regarding the situation, what knowledge is known, where there are gaps in that knowledge, how the situation will be managed, and the clinical reasoning applied. Clinical supervision supports the application of ‘doing’ within the clinical environment and the reasoned approach to the management of the situation by the student, therefore confirming when the correct action is taken and supporting continued development.

* Consideration of a ‘bottom up’ approach to curriculum design, to fuse the four pillars of advanced clinical practice within the clinical environment to help the discussion, critique, application and confirmation of their use within the reality of clinical practice. The ART Model (Chapter 6, section 6.7) structures this bottom-up approach, indicating the influence of the clinical environment and optimising the impact of academia, thought, reflection, application to practice and confirmation of correct management of the situation through this staged approach.
* Consideration of a curriculum which is entwined with clinical experience and reflective of this exposure, whilst providing a generalist theoretical approach to learning, acknowledging the application of such skills to specific clinical environments that require specialist understanding. This is depicted within the Focused Thinking Model (see Chapter 6, section 6.10) which proposes that a generalist programme provides a broad theoretical knowledge base, which coupled with diversifying clinical exposure orientated and adapted to clinical need, enhances wider skills set.
* Consider the need for structured, supported and monitored clinical supervision within the clinical environment, which is mapped to the national policy and is uniform. Whether the clinical supervision is of the moment or arranged at a later point in the form of a debrief or case-based discussion, it is the fact that the supervision takes place and is of a high quality that appears to be an important factor in the development of advanced practitioners and is noted within the ART Model (see Chapter 6, section 6.7).
* Consideration for the support that a strong community of practice, aimed at advanced clinical practice education and development, can bring by utilising a multi-professional team to share and facilitate skill and knowledge acquisition. If higher education institutions and health organisations can continue to collaborate or enhance existing collaboration, then a shared approach between theory and practice can be enhanced. Therefore, a community of practice that jointly creates a curriculum embedded in the reality of practice can cultivate opportunities where capability can be nurtured.
* Consider and embrace the opportunity for qualified ACPs to be supported and developed into clinical supervisors that will help the multi-professional approach to clinical supervision, as advocated by HEE (2020). A community of practice offers such an opportunity for advanced practitioners to come together through a common interest in advanced level practice and feel supported to develop knowledge and skill that will help enhance their expansion to the role of educator.

These recommendations have begun to materialise within my own practice area. Locally, I have always maintained a close working relationship with the local health care providers both primary and secondary care. The findings of this study have been utilised in discussions related to advanced clinical practitioners’ education and development which are county-wide. This has resulted in work to map the competencies, capabilities and behaviours into clinical practice, and this offers a unique opportunity to review the current indicative content of the master’s programme and create a clinically focused curriculum as described in this study.

Nationally, academic conversations with other providers of advanced practice Master’s programmes through my work as an external examiner have also impacted on the development of this study. I have explored the findings from this study with academic colleagues and written a discussion piece which has been cited by others in three international journals. The two models created by this study have been disseminated via national conference attended by Health Education England and the National Health Service and as part of a poster submitted to a conference relating to advanced clinical practice hosted by Keele University, both in November 2020. These additional and future projects will, I hope, help explore the findings of this study further via the following indicated in section 7.6:

## 7.6 Future research possibilities.

* Further research into the outcome of applying a clinically focused curriculum and the challenges of providing and monitoring effective clinical supervision.
* Further study into the impact of changes in the curriculum from a service provision perspective and the academic influence experienced by trainee advanced practitioners.
* A study into the experiences of trained and trainee advanced clinical practitioners from professions outside of nursing and their educational, professional and clinical needs to aid progression.
* Further study into the potential challenges of confidence to prescribe seen within primary care and identified within this study.
* A possible study into multiple universities and the experience of students undertaking other advanced clinical practice programmes within HEIs.
* A study into the experiences of academics responsible for teaching and delivering a curriculum aimed at advanced clinical practice education.
* Future study into the impact of programme accreditation (HEE, 2021) upon curriculum design and its influence on ensuring education quality, with a particular focus on how a national approach to educating advanced practitioners has affected the workforce in meeting service demands.
* A possible study into the impact of credentialling being adopted into generalist curriculum design, the HEI, student and employer experience.

## 7.7 Current research.

Currently I am leading on a study, in collaboration with a local acute Trust, to consider the experiences of student and trained advanced clinical practitioners undertaking a simulated scenario. The scenarios, which are designed by the simulation team within the Trust and led by a consultant from the emergency department, relate to complex clinical events, which are enhanced using actors. Within my thesis the use of simulation to support advanced clinical practice education was mentioned, but infrequently (Chapter Five, section 5.5.5), therefore its potential impact is of interest as it may offer some support in the curriculum design. The study aims to explore the impact of this simulated learning through the eyes of a student advanced clinical practitioner. Preliminary findings from the study questionnaires relating to simulation, do suggest that it is a safe and effective way of keeping the learning experience real and supported through debrief. Final completion and dissemination of this study is expected in June 2021.

## 7.8 Final thoughts.

This doctoral thesis sought to answer a question related to curriculum design aimed at advanced clinical practice education by asking the following question.

*What impact has a master’s curriculum, designed to support student advanced nurse practitioners’ educational and clinical needs, had on their professional development?*

The study has answered that question through the voices of student advanced nurse practitioners’ experiences undertaking a Master’s in advanced clinical practice, together with the perspectives of two of their medical supervisors. The unique contribution offered by this study is in its suggested educational models, which are devised through the data provided by the participant interviews and diaries and the exploration of educational theory. Through the experiences of the participants a case is made for a generalist programme of study that will offer the fundamental knowledge and skills required by advanced clinical practitioners as identified by HEE (2017), but with a focus upon the potential specialist needs required for service provision. This is depicted in the Focused Thinking Model (Fig.6) which utilises a broad theoretical knowledge base and a diverse clinical exposure, which relates to clinical need, allowing for the development of a wide skills set. This form of programme design, coupled with the ART Model, places the underpinning theory within the rich environment that is clinical practice, helping to relate theory to practice.

This study also highlights the impact of clinical practice in keeping the learning real and applicable. The ART Model (Fig. 5) suggests how this might be structured and identifies the importance of clinical learning that is considered, critiqued, discussed and applied with the support of effective clinical supervision to confirm safe clinical practice. Together and with the support of the participants and relevant educational theories, the models created by this study offer a guide to advanced clinical practice curriculum design. The models structure and support the case for an overall generalist curriculum, placing the development of fundamental skills and knowledge at the heart of clinical learning, but in a structured way to accommodate the reality of practice. The models are underpinned by educational theories that identify the impact of the changing environment on the experiences and perception of the world that is inhabited by the student advanced nurse practitioners, and the adaptions they make by reflecting on their daily lives. The uniqueness of the models is that they help reinforce the approach taken by many HEIs in the adoption of a generalist curricula that maps to the HEE (2017) Multi-professional framework. The models help strengthen the argument for the close collaboration between HEIs and health care providers that is required to ensure pedagogical approach is meaningful, current and relevant for advanced level practice and the support provided by effective clinical supervision that is needed and endorsed by HEE (2020). The models help underpin the approach taken in the development of such curricula and help justify the skills, knowledge, development and clinical support required to create individuals prepared for advanced level practice.

However, there should always be the opportunity for personal innovation, and I make no claim that this is the only way one should view curriculum design. On the contrary, this is a guide offering models from which to ponder how the structure of the curriculum may be developed and from which debate and further research can be influenced.

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## APPENDIX 1

Table- A summary of the nine identified studies (based on examples by Aveyard *et al.* 2016 pg. 96 and Bridges, 2015 pg. 41-43).

|  |  |  |
| --- | --- | --- |
| **Author, year, country study aims and design** | **Findings** | **Study evaluation** |
| Crathern *et al* (2016), UK, CPD reflective paper on developing an advanced neonatal practitioner programme.  Reflective piece. | * Working collaboratively with education and stakeholders * Keeping the learning ‘real’ * Modular development * Use of direct observation, learning contract, OSCE’s, MCQ’s simulation. | Reflection upon a programme design process (an informative discussion piece), evaluation of the programme yet to be considered. |
| Bergstrom and Lindh (2018), Sweden, development of advanced nurse practice utilising a blended learning programme and the impact of that approach.  A qualitative study aiming to identify how a master’s programme prepares ANP students for the diverse needs for knowledge, using thematic analysis of interview data. | * Participants n=18, n=7 agreeing to interviews. * Thematic analysis applied to data, with consideration for a theoretical framework identifying two types of knowledge (common sense and theoretical), which is further subdivide into horizontal (clinical) and vertical (academic) knowledge. | Good identification of the programme modules, design, and relevance.  Exploration of why the students choose to study towards advanced practice, what they choose to study in relation to their practice.  The main findings identified the student’s perspective of boundaries between clinical practice and academia.  Advanced nurse practice at the time of the paper remained a fairly new concept, legislation and policy were in their infancy.  The horizontal (clinical) and vertical (academic) knowledge created a challenge for curriculum design when considering the diversity of need. |
| Bench *et al* (2018), UK, A qualitative study to consider the educational and training needs of advanced clinical practitioners, using focus groups and one individual interview to capture their experiences.  Utilises students enrolled on a master’s in advanced practice. The data set was analysed using inductive thematic analysis. | * n=17 participants only. * Recognition of the role needs addressing * Mixed responses to the educational needs of ACP’s * Challenges of programme delivery to meet all ACP need. | A similar study to my own. Differences are no inclusion of medical staff, but inclusion of people directly responsible for ACP’s, multi-professional inclusion.  Three key themes identified: recognition of advanced practice, education of advanced practitioners and programme delivery.  Improved collaboration between stakeholders and HEI’s.  Highlights issues with the development of a generic programme and calls for flexibility.  Only considered the experiences of student studying at one HEI |
| Illingworth *et al* (2013), UK, A qualitative study to consider the students experience of educational preparation for advanced nursing roles within the community.  Data captured via focus groups and semi structured interviews.  Data analysis was conducted through thematic analysis. | * n=15 * Vertical distribution within this study refers to the extension of tasks from one professional group to another without the same level of preparation.   Horizontal redistribution refers to professionals with similar levels of training performing tasks that are normally provided by others.  This point is made in relation to the boundaries between nursing and medicine and the introduction of advanced practice.   * Identifies the wide variety of titles related to advanced practice | Three themes were identified: re-inventing roles, re-creating selves, re-engaging with learning.  Issues noted surrounding professional identity.  Varying experience re-engaging with learning, some concerns about placement support, positive feedback on the use of action learning sets, self-directed focus of the programme.  Interestingly, as the student progressed the need for clinical skills development gave way to the need for complex thinking skills.  Making use of the educational knowledge appeared to have an emotional toll.  Points made regarding vertical and horizontal learning, which are related to expansive/sideways learning. |
| Dover *et al* (2019), UK, A review of educational preparedness of advanced clinical practitioners.  A mixed methods approach and rapid systematic review of the associated literature, using Tricco’s seven- stage process. | * Identification of an unregulated workforce, ill-defined within the UK, with various job titles suggesting advanced practice. * Theory to practice gap noted * Issue with consolidating learning and clinical support. * The diversity in relation to developing and accessing competency | No quality appraisal of the studies was undertaken.  Rapid review is less rigorous.  The authors propose theoretical and clinical elements are needed within an ACP curricula.  Support within the clinical environment is of importance.  The curriculum needs to acknowledge the development of clinical reasoning in complex situations.  Role transition needs to be managed well |
| Fitzgerald *et al* (2013), Australia, Curriculum design to support teaching of health assessment skills to ACP’s through sustainable, flexible learning.  Action Research using interviews, focus groups and journal reflections. | * Design for an on-line programme, therefore, support in the use of technology was identified. * Differing approaches existed between the programmes considered in the study. * Constructive alignment approach utilised with effect. * A facilitator’s guide was developed to guide expectation of the cadmic and clinical requirements. | Clinicians as teachers were felt to strengthen the programme.  This approach helped “think theory to practice”.  The modules were required to link to clinical practice. |
| Schwendumann *et al* (2019), Switzerland, a report on the review of a master’s in nursing science curricula for the 21st century.  A curricula analysis via work packages, programme accreditation and legal policy. | * Mapping process of the curricula to the competencies developed by the WHO * Following the Bologna process, assuring that the programme was recognisable and comparable to other European HEI’s. * Utilised a structured process of Preparation, Revision and Regulations to achieve the mapping process. | The programme was found to map well to the competencies set by national and international organisations.  From the review research and public health appeared the focus for advanced practice development.  A mapping process only. |
| Morgan, Barry and Barnes (2012), UK, Mater’s programme in advanced nursing practice: new strategies to enhance design in neonatology and paediatrics. Liverpool John moors University.  A literature review. | * Noted issues with role definition and identity. * Challenges from experience nurse to novice ACP. * Recognition of the need for clinical supervision. * Filling gaps in service challenges career pathways for neonatal ACP’s. * Advantages of securing a probationary year. * Developing modules and pathways that are economically sustainable. * Challenges to the NMP speciality in neonates impacts on advanced practice development. | Challenges noted to the lower numbers of speciality neonatal ACP’s and therefore inter-professional learning with medical students devised to facilitate professional identity, role appreciation and shared learning.  Use of simulation and case-based discussion utilises technology to assist in development of clinical reasoning.  Foundation modules assures numbers and fundamental skills are supported, with division into three pathways for specialist needs to be met.  Small numbers aid the quality of clinical supervision. |
| Gaskill and Beaton (2010), UK, Inter-professional learning within a master’s in advanced practice- lessons from one UK education programme,  Salford University.  Reflection upon the impact of the MSc Advanced Practice programme and its programme design. | * Focus on WBL and IPL. * Collaborative working with health providers and the universities is advocated in programme design. * Placing the student at the centre of the learning is identified. * WBL improves theory to practice. * WBL supports clinical reasoning in the workplace. * Challenges to WBL, staff shortages, loss of protected time, different working patterns. | WBL and IPL help with clinical development providing an opportunity for using clinical logs and the production of action plans.  Education is enhanced by the inclusion of expert clinicians to teach, drop-in session for personal development and the use of OSCE’s to aid progression and critical thinking. |

## APPENDIX 2

Semi-Structured Interview Schedule.

**Study Question.**

An exploration into the curriculum development of a master’s programme designed to support advanced nurse practitioner education: analysis of a case.

**Study aims.**

* To explore the experience of advanced nurse practitioner trainees currently undertaking a MSc in Advanced Practice in relation to their education and clinical practice.
* To explore the experience of medical supervisors supporting clinical development of advanced nurse practitioner trainees undertaking an MSc in Advanced Practice.
* To consider the findings of the investigation in order to propose recommendations for MSc Advanced Practice curriculum design.

**Introductions**

Introduction preamble: ‘In my participant information leaflet I said that I was interested in exploring themaster’s education programme you have undertaken, which was designed to support the development of advanced nurse practice education’.

Thank the participant for their attendance and clearly identify the purpose of the session using the student participation information leaflet, reiterate the length of the interview as approx. 1 hour.

**Voluntary**

Ensure that the interviewee is participating voluntarily and has read, understood and agreed with the student participation information leaflet and has signed the consent form. Interviewer to reiterate that the arrangements for withdrawal of consent and removal of any data from the study.

**Code allocation**

Interviewer to allocate each participant with a code to help protect identity.

**Recording**

Interviewer to inform the interviewee that the session is recorded and that the recording is held securely and protected by password access, that the recording will be used for the purpose of the study only and destroyed once the recording is transcribed. All transcriptions will be held within a locked draw within a locked office and destroyed once the study is completed. This is in keeping with the information given within the student participation information leaflet. Any notes made during the interview will be checked for accuracy with the interviewee by the interviewer at the end of the interview. Interviewer to verbally confirm that the interviewee agrees to the session being recorded.

**Dissemination of findings**

Interviewer to indicate to the interviewee that any data collected will be used to support curricula development within the MSc Advanced Practice. The information will be shared with those involved with development of advanced nurse practice education, which may include stakeholders and dissemination to a wider audience (conferences).

Interviewee to commence recording, state date and time of session and interviewee’s code.

**Ensure the safety and comfort of the interviewee throughout the interview.**

**Participant data;** circle as appropriate

Participant code;

Participant gender; Male Female

Participant age group; 25-35, 36-40, 41-45, 46-50, 51-55, 56-60, 60+

Participant professional qualifications; SRN, RGN, RMH, RSCN, other

Participant academic qualifications; Diploma, BSc, BSc (Hons), PG Cert, PG Dip, MSc, MA, PhD, other

Participant number of qualified years;

Participants focus; Primary Care Secondary Care

**Questions for the Interview;**

‘I would like to ask about your thoughts on advanced nurse practice’;

Interviewer to consider the following in response during the discussion;

Follow up questions, *can you give more detail, what did you mean*

Probing Questions; *do you have any examples, can you say a bit more about*

Specifying Questions; *what happened when that occurred, what happened next?*

Interpreting questions; *do you mean that, is it correct that?*

Direct Questions; *answers may be yes or no leave to the end*

Remember the questions can be asked in any order, allow the interviewee to guide the decision.

Q1. ‘Can you tell me when you first thought about becoming an advanced practitioner’? Questions for students undertaking the programme only

*(Interviewer - pause to listen)*

Probes; What motivated you?

What led up to this?

Was there a moment or an experience that affected the decision?

What do you think influenced you?

All participants asked the following questions

Q2. I’d like to get your thoughts and ideas regarding developing advanced nurse practitioners, in your experience what do you see as important?’

*Pause*

Probes; Do you have examples?

Can you say a bit more?

Do people need support, if so what?

Q3. ‘As a student who has undertaken the MSc Advanced Practice programme of educational study, what can you say about that experience?’

*Pause*

Probes; ‘can you say if the experience changed anything in relation to becoming an advanced practitioner?’

‘Did it change things in other ways?’ (if needed offer professional identity, transformation, confidence?)

Did you learn anything to support your development? Can you give examples?

Q4. ‘What do you think was your biggest challenge in working towards becoming an advanced practitioner’?

*Pause*

Probes; ‘What happened when that occurred?’

‘How did you find that experience?’

‘Was there anything that might have helped prepare you for this?’

Q5. ‘What now? In your opinion and from your experience is there anything needed to support the educational journey towards developing advanced practice skill and knowledge?’ Final direct question

*Pause*

Probes; ‘Is there anything that needs to be included to support development in both skill and knowledge?’

‘If so what and why?’

Q6. ‘Do you have anything you would like to add that you feel is important when considering how advanced nurse practice education is currently supported and what is needed for now and the future?’

*Pause*

Confirm that the notes are representation of the participant’s thoughts and ideas.

Thank the participant for their time and participation in the study.

**References**

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Yinn, R. (2016) *Qualitative Research from Start to Finish,* 2nd edn. London, The Guilford Press.

## APPENDIX 3

Consent form.

**Consent form**

Title of Study

An exploration into the curriculum development of a master’s programme designed to support advanced nurse practitioner education: a case study analysis.

Please read the following.

* + I have received appropriate information prior to agreeing to participate and understand the purposes of the study
  + I have been given adequate time prior to undertaking this semi-structured interview to have the opportunity to ask questions
  + I am fully aware that I can choose to withdraw from the study until the point of and prior to the analysis of the data (*date to be included once interviews have been arranged)*
  + I have been assured that any information which might possibly identify me will not be used in published material
  + I consent to the interview being recorded and notes taken which will be held in accordance with the information provided on the participant information leaflet
  + Reflecting on the above, I agree to participate in the study as identified to me.

Name………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

Date……………………………………………………………………………………………………………………………………………………….

Signature…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

## APPENDIX 4

Ethical approval University of Derby.



Dr Deborah Robinson

On Behalf of the College of Education Research Ethics Committee

**15th December 2016**

Dear Julie.

Re: Ethics decision for the proposal related to the project: **An exploration into the curriculum development of a master’s programme designed to support advanced nurse practitioner education: analysis of a case**

I am pleased to inform you that your application has been approved with recommendations. Reviewers ask you to reflect upon the following points.

* There are some changes that the proposer should consider but these changes do not effect the ethical nature of the study as a whole:
* Include the audio recording of the interviews in the information sheet and consent form.
* As the participants are students\*, make a firm commitment in the information sheet that taking part or not taking part will have no influence at all on any aspect of teaching or assessment for the students\*.

This is an interesting study which demonstrates the networking of your own scholarship with your teaching. All the best with your research.

Yours Sincerely,

Dr Deborah Robinson

Chair of College of Education Research Ethics Committee

\*The inclusion of medical supervisors was made clear when ethical approval was sought, this is not reflected in the letters when permission was granted/waivered.

## APPENDIX 5

Ethical approval from the local Trust.

RE: Julie Reynolds EdD student University of Derby

Dear Julie,

Thank you for getting in touch regarding your research study and apologies that you have not received a response previously from the R&D team here.

I have looked over the information you have sent, and from my understanding it appears that all the NHS employees that you may interview are also students\* of Derby University and all research activities will take place at UoD as well. We therefore acknowledge that you need no further input from us, but please do let us know if anything changes at all or if there is any reason for which you may need to come on site here.

We wishes you the best of luck with your research,

Kate

Dr Kate Threapleton

Study Support Service Facilitator

Tel:  01332 786509

Research and Development Office

Royal Derby Hospital | Room 5033 | University of Nottingham GEM School

Derby Teaching Hospitals NHS Foundation Trust

Uttoxeter Road | Derby | DE22 3DT

***(To ensure your query is dealt with quickly please ensure you quote the Local Project Reference Number (e.g. DHRD or DEV number) and/or full study title on all correspondence)***

\*The inclusion of medical supervisors was made clear when ethical approval was sought, this is not reflected in the letters when permission was granted/waivered.

## APPENDIX 6

Ethical approval from the Health Research Authority.

RE: 223130: Exploration into advanced nurse practitioner education: case analysis

Hi Julie,

Many thanks for the response that’s very helpful.  As you are recruiting participants/students\* based on their involvement in the MSc. Programme., the study does not take place during NHS time nor on NHS premises, and the study questionnaire regards the Programme and not specifically their involvement with the NHS ( although  I understand the NHS involvement may be part of the programme itself). The study would not be considered as involving the NHS, and does not require HRA Approval.

We will withdraw your application as ineligible for HRA Approval.

If you have any queries or wish to discuss please let me know.

Many thanks

Agnieszka

|  |  |  |
| --- | --- | --- |
| cid:image001.jpg@01D1BC1B.146FB8A0 | |  | | --- | | Agnieszka Ziolek| HRA Approval Performance Manager |HRA Approval **Health Research Authority**  Bristol HRA Centre, Level 3, Block B, Whitefriars, Lewins Mead, Bristol, BS1 2NT  Tel: 02071048099 E: [agnieszka.ziolek@nhs.net](mailto:agnieszka.ziolek@nhs.net) | |

\* The inclusion of medical supervisors was made clear when ethical approval was sought, this is not reflected in the letters when permission was granted/waivered.

## APPENDIX 7

Participant Information Sheet.

**PARTICIPANT INFORMATION SHEET**

**Title of study**

An exploration into the curriculum development of a master’s programme designed to support advanced nurse practitioner education: analysis of a case.

Thank you for your interest in this study and for considering to take part. It is important that before you make a decision to participate you are aware of what is involved. Please take time to read this information sheet and if there is anything that is not clear or that you would like more information on please ask.

**What is the purpose of the study?**

The purpose of this study is to explore the curriculum development of a master’s programme designed to support advanced nurse practitioner education (ANP). I want to find out your views and experiences of undertaking an MSc programme of study, your experience of learning as a trainee ANP and the role of the MSc programme in facilitating your education. This study will also include participants who have supported your educational study. This exploration will offer a broader view of the potential influences which may impact on the education of ANPs. I am interested in creating a depth of understanding that will then inform curriculum design and alignment of assessment to support development of advanced nurse practice education.

**What will happen if I take part?**

You’ll be invited to attend an interview on a one-to-one basis lasting approximately one hour. This will take place at the University of Derby at a mutually convenient time and will be recorded and notes will be taken. At the end of the session all notes will be disclosed to you so that you are aware of the content and that it represents your thoughts at that time. I would like access to your portfolio which you would have completed for the Consolidating Advanced Practice module, so that further meaning using another source of your learning process and your voice can be added to the exploration.

**What happens if I do not want to take part?**

Nothing at all, if you do want to take part that is absolutely fine, it is strictly recruitment on a voluntary basis only. Not taking part will in no way influence any aspect of your studies or assessment at the University.

**What are the other possible disadvantages and risks of taking part?**

I will be asking you to give up your time to participate in the interview and also explore the contents of your portfolio for inclusion in the study.

**What are the possible benefits of taking part?**

The study will provide information to enable me to add further curriculum development to the MSc Advanced Practice and offer insight for discussion and debate to a wider audience interested in advanced nurse practice education at master’s level.

**What happens when the study stops?**

I hope to use the findings to support future curricula development in the field of advanced practice education and offer insight into the student’s needs and experiences.

**What will happen if I don’t want to carry on with the study?**

If you do decide to participate and complete the consent form you can still withdraw at any time, up and prior to the point of data analysis.

If you do decide to withdraw, if you could let me know as soon as possible that would be most helpful. My contact is provided at the end of this leaflet.

**What if there is a problem?**

If you have a problem with the study at any point please do contact me, my contact details are at the foot of this information sheet. If you wish to contact someone who is not associated with the study but can offer support please contact Dr Wendy Wesson [w.a.wesson@:derby.ac.uk](mailto:w.a.wesson@:derby.ac.uk) 01332 592348.

**Will my taking part in this study be kept confidential?**

Yes, at all times. All names will be removed and your transcribed interview will be given a code known only to myself. Any names that are included in the verbatim transcript will either be removed or replaced by pseudonyms. The data will be stored securely at the University of Derby by myself and your name will not be identified in any public report or document arising from this research.

**What will happen to the results of the research study?**

It is hoped that the results of the study will be published and help inform the development of the current MSc Advanced Practice programme of study and where applicable be presented at conference.

**Who is organising and funding the project?**

I am the organiser of this study which supports my work towards the Doctor of Education.

**Who has reviewed the study?**

The study has been reviewed by the College Research Committee for Education here at the University of Derby. It has also been approved by the University of Derby Ethics Committee (Education), the Derby Hospital Trust Research and Development Department and the Integrated Research Application System (IRAS).

**This Information Sheet is for you to keep and you will be provided with a copy of the signed consent form if you agree to participate.**

Thank you for taking time to read this information sheet and for considering to take part in this study.

Julie Reynolds,

Senior lecturer

Programme Lead MSc Advanced Practice

University of Derby.

[j.reynolds@derby.ac.uk](mailto:j.reynolds@derby.ac.uk) 01332 593036

## APPENDIX 8

Photograph- of the planning and management process to assist in data analysis: a form of concept mapping/model building.

![A picture containing timeline

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4TpaRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjExOjA2IDE0OjI5OjM4AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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## APPENDIX 9

Photograph-Structured analysis of question 1-6: Question 1.

![Text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4UU8RXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjExOjA2IDE0OjMwOjI3AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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## APPENDIX 10

Photograph- Developing codes, patterns and categories for each of the questions 1-6 from the transcripts.

![Text, letter

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4T8IRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjExOjA2IDE0OjMxOjA0AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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LCH5VkQFsZJA4ryMVWnGq0mebVinK4wafbRncqDn3FO+zRBipGCBnpmsVXqdzFwRt2181xcAIECKxUNnk+/p2rStWxOEycepI5rjqKwkx+ueZDqmm7FGRBOcHkHlKzftmOJLcZCc7Tj9Pyrsw2EVeipXO6jT5oXEW8gzuxIpA5PXH8qqahdg6hYYb5mZhyMfLj/wDVSngp0/eexNam4xuOMoJVjgdic/4U+C68jcW3HjHHt9a5OW6OfqNOoQlclZFAIGNvAP60xb+waQ75SGI7I3/xNbU8PUlG8TaF5bFTVZ7WWyjit5d7iZWI2kHv7VGj4YDBHvxXrYGnKFO0kdVJNLU0NBjEdwsxTLHJB/OujS5BQlxnoMf/AKxXm5mv3i9Dhpbv1HfaFXACnjnJAPP4GmTXLfZpyHOfLOMHA6ema86EfeRo9jB0jzN0suAN0bYqjdMdqP1OODwO/uRX1dP438jTA/w36mVczgJkNkH9apDPIZTjnuK2OiT1NfTMC3kKg8sM1Mxw3PzDtxXh4r+Mzjq/EMMpPAOD3P8Ak1IpfHDYHuaxitTBiaXczfZ0aHyug3HGRkjOB9K2Y7oxFSxDSZ4Aizk/ga7/AKlTle5g5NGleX7XWsW80tsUijtWhcbS3zMQcgcf3R+tUbjUdMVjHLJKjYwf9HbH5jNdOGpexp8h6OErx5eVmc91phB8q7Xd3yjDP5is3UZRJd2LwEP5Uhzg9sVpVjzRsXiZx9m7F5VuSozGCvbaajaX5cFVRiK8eWFqR6HnqaY5JItuCQMsMHHXmq8kUiSHMZxnA4zmu/AJxi0+524ZqzIyFAPTPrU8XmsdoPQcHH/6q7jrT7GjZPtv441+6OMVpb8NgZG3g5H/ANf6dq8PMV78fQ82n19R28qu1jndycH0z9PWiWUiB/lBXYcMF68fWvPiveRo3oZukhi8xY8eWQBjpWddlo4Pmc4AxjHvX01P+JL5GmC/hs564dpZCST16VFkgn5SR2re5o31N6wiMOnrI/SRtw55xSFxgcH147frXg1pc1WTRyTld3G5YrgE8dsf/rqbICrvxn0pQ+JGUnoQ6SIhpsbStGny8D1qwbu4kj8u1lUAct5QwcfXrXspanPfQhJZp95kl3+pyauJdTq+BcIzf3ZR1/GrJJmu4jgXWnA543xEVct5dNeP92dkmORIuMUDcm1Zk5jjlhChipbj5e1VHtpEAAuAeOARQaU6kYq0lcmt7CORQblFkOSR8oFF3bpsyjSBV4CI1JxuEJe/o7JmesNojbpDccnjIzj8qsRJA/MchK+/GPzpqJvKdSmrqV0NGYpg6MuRyCPrSnUJt3+tjbsQwFYVsNCr8RjTc224jhqQXrCpx/dYj/GmS6xbQwNvjkGVKqOD+tcMsualeLLdVrSSMeLxDLA7GG0V1IwdzVSvdUuZuGtlXPpJn+lenGFpN9x0cQ6cXEz83DtxGB+BqZIJWX5mA/CqaE8TJl8TXwgSGOVPLQYGUpm68IC74+P9muV4SDdzPnk0TxC53AF4jn1Wsrxdc3entZtDP5fmBshB1xj1+tKOEjGVyZSezP/Z/+Ex5Gh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRvclRvb2w+V2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NDwveG1wOkNyZWF0b3JUb29sPjx4bXA6Q3JlYXRlRGF0ZT4yMDIxLTExLTA2VDE0OjA0OjU2PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48L3JkZjpSREY+PC94OnhtcG1ldGE+DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIC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## APPENDIX 11

Photograph- Developing codes and themes: exploring through questioning, visual graphics, and concept mapping/ model development.

![Text

Description automatically 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## APPENDIX 12

Table-Electronic version of the manual analysis of the diary data.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **EMERGING CODES FROM THE DIARY ANALYSIS**  **Red Code** secondary care participant, **Green Code** primary care participant | NI7 | NI8 | NI5 | NI6 | NI1 | NI3 | NI4 | Total | **EMERGING THEMES**  **CONFIRMATION**  **PRESCRIBING**  **EDUCATING**  **REFLECTION** |
| Challenges to ACP’s determining care- reluctance to carry out ACP’s suggestions and hostility to decision making by staff and patients | 16 | 1 | 7 | 2 | 1 | 3 | 4 | 34 |
| Seek confirmation of decision making to boost confidence- Dr’s seeking ACP support, ACP’s seeking assurance of progression, supervisory feedback | 29 | 1 | 21 | 3 | 8 | 22 | 20 | 104 |
| Making changes to improve working practice- feeling good at being able to do this, inclusion of audit, setting up and attending journal clubs | 9 | 2 | 1 |  |  | 1 | 4 | 17 |
| Assuming that senior clinicians or any grade, are able to carry out clinical procedures | 2 | 1 |  |  | 2 |  | 2 | 7 |
| Taking the initiative- seeking what needs doing and acting on it | 2 |  | 1 |  |  |  |  | 3 |
| Teaching junior ACP’s and supporting development through education- supporting each other (ACP’s), reflection upon what they actually know and the role | 15 | 1 | 10 |  | 2 | 13 | 14 | 55 |
| Positive feedback- clinical practice and skill | 4 |  | 1 |  |  | 2 |  | 7 |
| Prescribing decisions- feelings of being nervous, offering education and de-prescribing | 10 | 30 | 11 | 37 | 4 | 17 | 9 | 118 |
| Greater understanding of the challenges faced by medical staff in relation to patient care | 1 |  |  |  |  |  |  | 1 |
| Lacking confidence to request investigations or prescribe care | 4 |  |  |  |  |  |  | 4 |
| Personal or other (ACP’s) stress- changes in work patterns | 2 |  |  |  |  |  |  | 2 |
| Learning from role models- medical staff and consultants | 1 |  |  |  |  |  | 1 | 2 |
| Feelings of failure and inadequacy in skills and knowledge | 3 |  | 9 | 4 |  |  |  | 16 |
| Guilt about taking time away from clinical practice to learn | 1 |  |  |  |  |  |  | 1 |
| Lack of understanding regarding the role (ACP)- e.g. patients wanting to see a doctor and issues around what education is required to support ACP’s | 1 | 1 | 3 | 4 | 1 | 1 | 5 | 16 |
| Clinical meetings and opportunities for discussion | 3 | 10 |  | 2 |  | 1 |  | 16 |
| Time management- GP appointments, reception ‘fitting people in’ a sense of juggling |  | 22 |  | 3 |  |  |  | 25 |
| Educating patients on disease management- caring for sick children and educating their parents |  | 52 |  | 59 | 4 | 1 |  | 116 |
| Care continuity and familiarity- enhancing patient care |  | 2 |  |  |  |  | 2 | 4 |
| Time for team building |  | 4 |  |  |  |  | 1 | 4 |
| Educating carers in patient care |  | 8 |  |  |  | 1 |  | 9 |
| Positive feedback from patients- on their care and diagnosis |  | 3 | 1 | 1 |  |  | 1 | 6 |
| Breaking bad news and difficult conversations |  | 3 | 4 | 1 |  | 3 | 2 | 13 |
| Referrals- when knowledge has been exhausted and is not the ACP’s field or a speciality is needed |  | 11 | 5 | 23 | 1 |  | 2 | 42 |
| No access to full information- advise using ‘red flags’ |  | 1 |  |  |  |  |  | 1 |
| Guidelines- appropriate and pragmatic use in multiple co-morbidities |  | 3 | 2 |  | 3 | 2 | 1 | 11 |
| End of life- discussions regarding care and management/ advanced decision making |  | 2 | 1 |  |  |  | 1 | 4 |
| Failing capacity-ability to determine the patients issues, symptoms or change in the ability to consent/ care environment |  | 4 |  |  | 2 | 2 | 2 | 10 |
| Updating and recognising knowledge gaps |  | 2 | 16 | 2 | 3 | 6 | 8 | 37 |
| Communication between care homes and surgeries (challenges) |  | 1 | 3 | 1 | 1 | 1 |  | 7 |
| Professionalism- mental health issues and capacity to consent, patients choice and dealing with aggressive relatives |  |  | 4 | 1 | 2 | 1 |  | 8 |
| Feeling appreciated- feedback, able to use skills and act autonomously |  |  |  | 4 |  | 7 | 10 | 21 |
| Careful consideration and extra care taken when checking blood results and requesting lots of investigations |  |  |  | 2 | 2 | 3 |  | 7 |
| Challenges to ordering investigations in primary care |  |  |  | 1 |  |  |  | 1 |
| Reflecting on practice- considering decision making and how this may influence future practice |  |  |  | 4 | 12 | 13 | 51 | 80 |
| Effective communication- history taking and developing relationships with patients and colleagues |  |  |  |  | 3 | 20 | 2 | 25 |
| Team working |  |  |  |  |  | 1 | 4 | 5 |
| New skills development |  |  |  |  |  |  | 2 | 2 |
| Feedback from simulation training |  |  |  |  |  |  | 2 | 2 |
| Developing confidence |  |  |  |  |  |  | 2 | 2 |

## APPENDIX 13

Table to show the development of the categories from the interview and diary data codes

|  |  |  |  |
| --- | --- | --- | --- |
| **QUESTIONS AND RESPONSES** | **EMERGING CODES**  **INTERVIEW DATA**  **The Analysis of the interview and diary data to create emerging codes, leading to the creation of categories**  “Can you tell me when you first thought about becoming an advanced practitioner?”  **PRIMARY SOURCE** | **EMERGING CODES**  **DIARY DATA**  **SECONDARY SOURCE** | **PATTERNS/RECURRENCES/ CONTRAST BETWEEN INTERVIEW AND DIARY DATA**  **CATEGORIES** |
| **Question 1**  “Can you tell me when you first thought about becoming an advanced practitioner?” |  | | |
| *“I’d been there since I’d possibly qualified, so* ***a good 10 years*** *and* ***I liked the hands-on patients care*** *and I enjoyed the Sister’s role and what came along with it but knew that* ***I didn’t want to go into higher management****” (NI9).* | Wishing to remain clinical and providing care for the patient | Care continuity and familiarity- enhancing patient care. | **CLINICAL PRACTICE**  **PERSONAL QUALITIES**  **FRUSTRATION**  **ROLE DEFINITION** |
| *“Your only option was management to* ***further your career*** *and* ***it’s not me****, it doesn’t interest me,* ***I’d rather be hands on with patients****” (NI4)*. | Not wanting managerial positions  Feelings of frustration  Being at a crossroads in professional life  More that they can offer to support care | Effective communication- history taking and developing relationships with patients and colleagues |
| *“****I don’t think people know what an advanced practitioner is****, it’s not their fault,* ***we know what a nurse is****,* ***we know what a doctor is****, we* ***don’t know what an advanced practitioner is****, so* ***I think it is important that it is well defined****” (NI5).* | Role definition- uncertainty  Greater clarity | Lack of understanding regarding the role (ACP)- e.g., patients wanting to see a doctor and issues around what education is required to support ACP development.  Challenges to ACP’s determining care- reluctance to carry out ACP’s suggestions and hostility to decision making by staff and patients |
| **Question 2**  “I’d like to get your thoughts and ideas regarding developing advanced nurse practitioners, in your experience what do you see as important?” |  | | |
| *“I think it depends on* ***what level the service needs are*** *and if* ***the GP knows what level of skills you already have****, so* ***you may have some skills that are going to meet their needs****,* ***but they might not****, so they* ***develop you to what the needs of the practice are****” (NI7).* | Clinical needs of the practice area  Clinical roles in relation to ability, identity, and usefulness  Academic and clinical need including a speciality focus related to clinical knowledge | Greater understanding of the challenges faced by medical staff in relation to patient care  Learning from role models- medical staff and consultants  New skills development | **EXPERIENCE**  **EXPECTATION**  **ACADEMIA**  **CONFIRMATION**  **ACCEPTANCE**  **EQUALITY** |
| *(Participant* ***speaking of an adult clinical examination module******Clinical Decision Making, CDM****) “but also I think* ***as people complete the CDM****… you know when you’re writing on the ward round,* ***you know why the consultant is looking at the neck****, not just is he looking* ***at the JVP*** *or* ***you know when they are examining the abdomen what they’re looking*** *for,* ***that gives you confidence****” (NI6).* | Gaining confidence from academic study  Making you prepared to go into the workplace | Positive feedback- clinical practice and skill  Feedback from simulation training  Taking the initiative- seeking what needs doing and acting on it |
| *“Yep,* ***anyone can pick up a book****,* ***but its understanding and putting it into practice****” (NI1).* | Collaboration with education providers- universities | Positive feedback- clinical practice and skill |
| *(****Doctor speaking on the subject of education not preparing them for clinical practice****)” I think it’s from* ***the way I have seen them approach it,*** *it’s very much more* ***‘today I’m going to focus on the cardiac system’ and it’s very systems based******rather than patient based and holistically based****… I think that* ***at that point their breadth of experience isn’t wide enough, I don’t think the course quite prepares them for that****” (DI1)*. | Challenges set against academia  A structured approach  Clinically focused | Referrals- when knowledge has been exhausted and is not the ACP’s field or a speciality is needed  Communication between care homes and surgeries (challenges)  Professionalism- mental health issues and capacity to consent, patients’ choice and dealing with aggressive relatives  End of life- discussions regarding care and management/ advanced decision making |
| *“it sort of* ***underpins what you’re doing in practice,*** *and I think* ***that’s what you want to get out of a master’s degree****, you want it to* ***make you prepared to go into your workplace****, it’s* ***got to be reliable****, and it* ***gives you that underpinning confidence*** *really” (NI9).* | A programme that is meaningful and related to clinical need both academically and practically. | Feelings of failure and inadequacy in skills and knowledge |
| *“****I’ve been recently to a medical conference****… that was really nice because* ***it obviously meant that the profession were more accepting of us*** *now and* ***wanting us to be involved in their education*** *and how they become educated,* ***rather than us being a separate identity to them”*** *(NI4).* | Confusion and role clarity  Confidence impacted upon by lack of clarity and support for the role | Feeling appreciated- feedback, able to use skills and act autonomously |
| *“****well obviously they’re going to need mentorship****, its important* ***it’s got to be sustained mentorship,*** *but* ***it’s important to have that mentor that has a full understanding of what being a mentor*** *entails,* ***some proper clinical supervision****” (NI7).* | Supervision in the form of clinical support, mentoring.  Support for development within clinical practice  Clinical support for the role | Clinical meetings and opportunities for discussion  Teaching junior ACP’s and supporting development through education- supporting each other (ACP’s), reflection upon what they actually know and the role | **CLINICAL SUPERVISION**  **ROLE AS EDUCATOR** |
| *“****I have to think to myself every day, what have I learnt today****,* ***what could have I done different*** *today? Those sorts of things and then you think, well yeah, there’s actually quite a few different things” (NI3).* | Reflection  Use of reflective practice to support development | Reflecting on practice- considering decision making and how this may influence future practice |
| **Question 3**  ‘As a student (medical supervisor) who has undertaken (supported a student undertaking) the MSc Advanced Practice programme of educational study, what can you say about that experience?’ |  | | |
| *(Participant speaking of the master’s degree) “it provides and* ***increased my confidence in interpreting clinical investigation skills, clinical examination skills and decision making*** *and definitely* ***it boosted my confidence and encouraged me to go and do it****” (NI2).* | Collaboration between the university and what is required by clinical practice | Careful consideration and extra care taken when checking blood results and requesting lots of investigations  Challenges to ordering investigations in primary care  No access to full information- advise using ‘red flags’ | **KNOWLEDGE** |
| *“but* ***I do think having a masters and being at master’s level is really important*** *and especially in this final year as well, even if I fail my last year* ***what I have taken out of it encourages you to think beyond what you read, encourages you to think, that’s the evidence that makes you question it and that does translate into practice****” (NI5).* | Reflection upon development- promotion of lateral thinking through reflective practice | Guidelines- appropriate and pragmatic use in multiple co-morbidities | **REFLECTION**  **CONTINUED**  **PROFESSIONAL**  **DEVELOPMENT** |
| *“but then it’s* ***ongoing learning*** *for the MSc and I feel like* ***‘what do I do next?*** *cause* ***you want to know that you’re still developing****, but* ***I think your more focused on your clinical****” (NI9).* | Ongoing development, CPD | Guilt about taking time away from clinical practice to learn |
| **Question 4**  ‘(As a medical supervisor) What do you think was (the students biggest challenge) your biggest challenge in working towards becoming an advanced practitioner’? |  | | |
| *“****time, time, we don’t have enough time together****…, this is almost* ***done in my spare time****,* ***so I don’t get given time*** *per sae, we sneak together” (DI1).* | Time to support their trainee advanced nurse practitioner- clinical supervision | Time for team building | **TIME**  **CONFIDENCE** |
| *“I still* ***don’t know if it’s the trainee title or not that makes me feel that I’m a trainee****,* ***I still need support******I need someone to make those decisions****… I think it’s an easy excuse sometimes to say, ‘well I still a trainee’ its perhaps not the best thing to do, but I think it’s a buffer…****one of the challenges I’m not massively looking forward to is not having that in my title to hide behind if I’m honest****” (NI4).* | Personal feelings of confidence  Confidence- out of their comfort zone, a roller coaster ride experience | Failing capacity-ability to determine the patients’ issues, symptoms or change in the ability to consent/ care environment  Lacking confidence to request investigations or prescribe care  Prescribing decisions- feelings of being nervous, offering education and de-prescribing  Professionalism- mental health issues and capacity to consent, patients’ choice and dealing with aggressive relatives |
| **Question 5**  ‘What now? In your opinion and from your experience is there anything needed to support the educational journey towards developing advanced practice skill and knowledge?’ |  | | |
| *(Student speaking of time) “perhaps when you’re* ***at the outset*** *that* ***the mentor and the practitioner as a whole have a clear idea what the programme entails****… if you* ***think how structured the GP training is an the debriefs,******they get*** *and* ***the formal protected time they’re given to develop they’re skills****….* ***It might that I simply just didn’t ask enough,*** *and it could have been that busy day to day basis, you’ve just got to get through the day… yeah, partly that I didn’t ask enough” (NI7).* | Student status- recognising their place and role in clinical practice during their education | Effective communication- history taking and developing relationships with patients and colleagues  Seek confirmation of decision making to boost confidence- Dr’s seeking ACP support, ACP’s seeking assurance of progression, supervisory feedback | **COMMUNICATION**  **AUTONOMY** |

## APPENDIX 14

Template for the reflective log used for the diaries.

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| --- | --- | --- | --- |
| **REFLECTIVE LOG** | | | |
| The Learning Log is a diary of ‘events’, experience gained and reflection of that episode to help inform the student’s development of advanced practice. The learning Log will demonstrate events occurring within the week (we would envisage at least one event a day, five days/week). This can be written in the ‘first person’ | | | |
| **DATE** | **NATURE OF EXPERIENCE** | **BRIEF REFLCETION** | **LINK/CROSS REFERENCE (HEE, 2017)** |
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