Abstract

Aim:

The aim of this metasynthesis was to develop an understanding of the existing theoretical perspectives around nurse prescribing and to identify any gaps in knowledge which would support further research into the lived experience of the nurse prescriber in the primary care setting.

Background:

Nurse Prescribing has been the focus of many research studies since its introduction, with many benefits to the patient, the prescriber and service identified. However, there remains variation in the utilisation of the prescribing qualification, particularly in primary care settings. Although a range of quantitative and qualitative studies have been undertaken which aimed to explore the influences on prescribing, few have used a research methodology which supports the in-depth exploration of the nurse prescribers experience.

Methods:

An extensive literature search was undertaken in April 2015 (20th-24th) which included UK and non-UK studies since 1999. Inclusion and exclusion criteria were applied to search for studies where participants included nurse prescribers who practiced in primary or community care settings. Studies which only used a quantitative methodology and those not available in English were excluded. The literature search yielded 124 papers, with 50 papers remaining after the initial screen of full papers against the inclusion/exclusion criteria. The papers were reviewed and graded for their quality, with a further 13 papers excluded.

A three-step qualitative analysis technique of meta-synthesis was applied to the remaining 37 papers. Identification of similarities and differences enabled first order interpretations to be identified which were grouped into broader themes (second order interpretations) by identifying concepts which applied to two or more studies. Further interpretation through synthesis of translation enabled third order interpretations to emerge.

Findings

From the metasynthesis of the 37 papers, nine themes emerged: patient-centred care; benefits to the service; the need for knowledge; professional accountability and boundary-setting; safety-consciousness; barriers to effective prescribing; role-preservation; power-shifts and interprofessional relationships and culture of prescribing.
Nurse Prescribing in Primary Care: A Metasynthesis of the Literature

Introduction

Nurse prescribing is increasingly being recognised as an important activity in nursing practice, with countries including Spain, Norway, Finland, Sweden, Ireland, The Netherlands, New Zealand, South Africa, Colombia, Australia, Canada, and the United States of America enabling nurses to legally prescribe (Kroezen, Francke, Groenewegen et al, 2012, Gielen, Dekker, Francke et al, 2014, Weeks, George, Maclure et al, 2016). However, the application of nurse prescribing varies between countries, with some, including the UK, enabling independent prescribing and others, applying strict conditions and supervision (Kroezen et al, 2010). In the UK, the Royal College of Nursing (2012), identified that there were 54,000 nurses and midwives qualified to prescribe in 2012. Of these, 35,000 were Community Practitioner Nurse Prescribers (CPNPs), with the remaining 19,000 being independent and supplementary prescribers. Figures presented in Health Education North West’s (2015) large-scale economic evaluation of Non-Medical Prescribing (NMP), suggested that although numbers in secondary care are increasing, there continues to be more [non-medical] prescribers in primary and community care settings. Despite the steady rise in nurse prescriber numbers, there is evidence that some nurse prescribers choose not to prescribe (Earle, Taylor, Peet et al, 2011) whilst others do not prescribe to their full potential (Coull, Murray, Turner-Halliday et al, 2013).

The primary focus of research in non-medical prescribing to date has been on its impact, identifying an overall positive effect on patients, practitioners and the service (Courtenay, Carey and Burke, 2006, Bissell, Cooper, Guillaume et al, 2008, Hacking and Taylor, 2010, Gielen, 2014, Health Education North West, 2015). In addition to the range of benefits, these and other studies identified a number of barriers to effective prescribing. Watterson, Turner, Coull et al’s (2009), Scottish study found that prescribing was inhibited by a range of issues, which included a lack of access to training and a lack of support. However, the study also identified motivators, such as job satisfaction and the opportunity to improve patient care, which was linked to increased prescribing activity. It is evident that there are wide ranging influences upon nurse’s prescribing, including the trust of other members of the team (Bowskill, Timmons and James, 2013), the prescriber’s confidence (Downer and Shepherd, 2010), their experience (Hall, Noyce and Cantrill, 2008), the expectations of others (Nolan and Bradley, 2007) and the legislative controls enforced by different countries (Kroezen, 2014).

Although there have been numerous studies with a focus on nurse prescribing, there is still much more to discover. Many of the themes emerging from previous studies, such as confidence, competence and changes in role and relationships, suggest that the individual lived experiences of nurse prescribers are worthy of further exploration. There appears to be a need for a clearer insight into experiences and perceptions in prescribing practice in order to identify more effective ways to motivate and support nurse prescribers to prescribe more effectively. It is important to note that although many of the larger studies, such as those of Latter, Blenkinsopp, Smith et al (2010) and Health Education North West (2015) acknowledged that NMP in the UK was still predominantly
undertaken in the primary care setting, many did not include CPNPs. As such, there is a clear need to learn from the lived experiences of our current prescribers in order to support them and our future NMPs more effectively.

This metasynthesis formed part of phase one of a phenomenological study aiming to explore the lived experience of the nurse prescriber in the community or primary care setting in the UK. The aim of the metasynthesis was to develop an understanding of the existing theoretical perspectives around nurse prescribing in order to identify any gaps in knowledge and any potential for new ideas.

Method

Metasynthesis

Systematic review utilises transparent, structured processes to review literature and this approach is equally important when reviewing qualitative literature as it requires the identification of clear criteria to support credibility, transferability, dependability and confirmability (Bearman and Dawson, 2013). Metasynthesis is a systematic approach to the synthesis of findings from qualitative studies, allowing key ideas and concepts to be identified (Erwin, Brotherson and Summers, 2011) whilst clearly identifying the quality measures employed throughout the process. This iterative approach enables a focus upon the question being asked (Downe, 2008) and can introduce an additional layer of interpretation to those identified by the authors of the individual studies (Bearman and Dawson, 2013).

Literature Search

The literature search was undertaken in April 2015 (20th – 24th), using a range of databases and resources selected due to their relevance to the subject area (table 1). In order to gather an insight into factors which could impact upon the lived experience of the nurse prescriber, a broad approach was taken to the literature search, which included qualitative and mixed methods papers. As such, the literature search included other reviews as well as primary studies. Studies which only gathered quantitative data were excluded as it was felt that the methodologies used would not provide data in the depth necessary to be relevant to a phenomenological study. International literature was included in the search, excluding only those not available in English. As the aim was to explore the perspectives and experiences of the nurse prescriber, studies which only explored the perspectives of other prescribers (doctors, physicians, pharmacists, physiotherapists, radiographers, podiatrists/chiropodists, optometrists, and dentists), other staff or patients were excluded. Relevant professional nursing groups with prescribing rights were included (independent nurse prescribers; supplementary nurse prescribers; V100: V150 and V300) but this was limited to those practicing in a community or primary care setting. Whilst no lateral searches were undertaken, search terms were tested using Medical Subject Headings (MeSH) to ensure that terms used in the final searches captured all relevant data. Inclusion and exclusion criteria is identified in table 2. The outcome of each stage of the literature search process is recorded in figure 1.
Qualitative Analysis Techniques

Walsh and Downe's (2004) qualitative analysis technique was used, which 'attempts to integrate results from a number of different but inter-related qualitative studies' and as such, was seen as appropriate for analysis of the range of data yielded from this literature search. In support of this technique, an adaptation of the Template for Metasynthesis and the grading system developed by Downe et al (2009) were utilised. The first stage of Downe et al's (2009) approach required an initial screen of the full-text papers, resulting in 15 papers being rejected as the inclusion criteria was not met, a factor not clear on initial reading of the abstracts. The quality of the remaining 50 papers was reviewed by the author and two other members of the research project supervisory team, using the Quality Assessment Tool questions shown in table 3. This stage of the qualitative analysis process gave consideration to the clarity of the aims, appropriateness of the sample, design and methodology, as well evidence that the findings were justified. The review also considered reflexivity, ethical issues and rigour. Based upon the quality assessment, papers were graded using Downe et al’s (2009) grading system (table 4) where failure to meet any of the quality measures was identified as a flaw. The final grades were agreed between the three reviewers. In view of significant flaws evident in the papers graded D, these were excluded. Whilst acknowledging that the papers graded C contained some flaws which may affect credibility, transferability, dependability and/or confirmability, it was deemed that they added to the overall data and met the initial inclusion criteria. After exclusion of the 13 papers graded D, 37 remained and were included in the metasynthesis.

Participants in the included papers represented nurse prescribers from a range of countries: United Kingdom, United States of America, Canada, Botswana, Zimbabwe, Australia, Ireland, New Zealand and Sweden. 23 of the 37 papers were qualitative studies, whilst 11 used mixed methods. Qualitative data from 4 of the mixed methods studies was collected using surveys or questionnaires which incorporated open questions, with the remainder also using either interviews or focus groups. Only the qualitative data from the mixed methods papers was used for this metasynthesis. However, it is important to acknowledge that in some of the studies, it was not always possible to clearly determine if the themes identified by the authors were based solely on the qualitative data.

The final 3 papers were reviews of other studies (2 literature reviews and 1 metasynthesis). Consistency of the findings of these 3 papers, with the data cited from the primary studies, was reviewed. The process used by the authors to assess the quality of the papers they included, was also reviewed. The rigour of this process was used to inform the grade awarded to each of the three studies. Darvishpour et al’s (2014) metasynthesis included 11 papers which met their inclusion criteria. The quality of the included papers was assessed using both the AMSTAR tool and the CASP tool, with all papers graded as either strong or moderate with both tools. Similarly, the systematic review by Bhanbhro et al (2011) used the CASP tool and of the 23 papers identified, 6 were excluded following quality review, due to insufficient detail on the research design and/or methodology used. Whilst the scores were not stated, the detail provided in the supplementary appraisal notes were
suggestive of the quality of all included papers being strong or moderate. Harris and Taylor’s (2004) literature review included 44 papers which met the inclusion criteria. The quality of these was assessed using an evaluation tool devised by the authors, which included review of the evidence typologies used. Again, the detail provided in the evaluation matrix aligned the quality of all included papers to grades of strong or moderate. The characteristics of the 37 studies are identified in table 5.

Walsh and Downe (2004) identify a three-step approach to metasynthesis which begins by identifying relationships or differences in the studies by comparing and contrasting the data. The next stage, reciprocal translation, attempts to translate the findings of one study into another by identifying concepts which could apply to both studies. Walsh and Downe’s (2004) final stage is that of synthesis of translation, where the reciprocal translations are synthesised to identify new concepts or develop a more enhanced meaning. This approach was used by the author and nine themes were identified from the literature (Table 6). These themes were agreed by two other members of the supervisory team.

**Emerging Themes**

‘The need to provide patient-centred care’

The theme of ‘the need to provide patient-centred care’ was identified from fifteen papers, two of which were literature reviews, one metasynthesis and three mixed methods studies. A benefit of nurse prescribing which featured in many of the studies was the nurse prescriber’s ability to provide and improve patient-centred care, suggesting a need to integrate care into prescribing by using a holistic approach. The district nurse prescribers interviewed in Bowden’s (2005) and Downer and Shepherd’s (2010) studies, referred to an improved or better quality of care as a positive outcome of NMP. Support of these findings was demonstrated in studies by Mahoney and Ladd (2010) and Carey, Stenner and Courtenay (2014) as well as a metasynthesis by Darvishpour, Joolaee and Cheraghi (2014). A variety of factors influenced the nurse prescriber’s ability to provide patient-centred care through prescribing, including the ability to increase effectiveness through the timely delivery of complete episodes of care (Bhanbhro, Drennan, Grant et al, 2011). The importance of timeliness was reflected by Lewis-Evans and Jester (2004) and by Coull, Murray, Turner-Halliday et al (2013) in their Scottish study, specifically referring to NMPs having time to explain treatments. In addition, the ability to tailor prescribing to the needs of the patient was identified as a key enabler in studies by Hall (2006) and Stenner and Courtenay (2008a), with the desire to benefit the patient and to avoid harm identified as important.

However, the drive to provide patient-centred care through nurse prescribing activity may not be without its consequences. Luker and McHugh (2002), who carried out a postal survey across three UK Primary Care Trusts, found that nurse prescribers sometimes felt that patients expected more from them than they were able to offer. Similarly, the 2011 large scale study by the Department of
Health (DH), identified that NMP does not enable all nurses to meet the needs of all patients, largely due to concerns about prescribing for patients with co-morbidities. However, it would be fair to suggest that this issue is not exclusive to prescribing.

‘Benefits to the service’

In addition to benefiting the patient, seven of the papers, including one literature review and two mixed methods studies, indicated that prescribing has a positive impact upon the service in which it is implemented. Bhanbhro et al (2011) identified a perception by nurses that their prescribing activity reduced doctors’ workloads but as a consequence, nurses’ workloads increased. Interestingly, doctors themselves did not recognise any reduction in their workload. It is worthy of note that nurse prescribers acknowledge time saved for other colleagues as a benefit, suggesting a shared responsibility for patient care and the ability (and willingness) to see benefits from a wider perspective. Davies (2005) also identified that prescribing could save time for doctors and for the patient themselves but this required them to spend more time with the patient. As a result, the extra time spent with one patient was often at the expense of the time available to other patients. However, some of the nurse prescribers in the study by Hall (2006) offered a degree of counter-balance, suggesting that the extra time that the nurse prescriber had to spend with individual patients (compared with GPs) meant they were able to undertake a more thorough assessment, a finding shared by Lewis-Evans and Jester (2004). As a consequence, they were able to fully explore the appropriate strategy and therefore were actually less likely to prescribe, supporting Coull et al’s (2013) finding that NMP was perceived to result in a better use of resources and improved cost effectiveness. Importantly, the improved access and appropriate prescribing of medicines through NMP is seen as having the potential to manage the many demands on health services and consequently has potential to reduce patient dissatisfaction (Bhanbhro et al, 2011).

‘The need for knowledge’

An issue featuring in nineteen of the papers, including seven mixed methods papers, a metasynthesis and a literature review, was the need for adequate knowledge by nurse prescribers. This including the knowledge required to initiate prescribing following a programme of education and for ongoing updates and continuing professional development opportunities (Bowden, 2005). The Scottish Government (2009) found that nurses who had undertaken a prescribing programme generally felt that it was fit for purpose, equipping them to make more appropriate use of their skills and more effective as nurses (Coull et al, 2013). However, Hall (2006) identified the desire for on-going education amongst nurse prescribers and additionally, the desire for feedback on their prescribing practice to ensure that this remained effective. The on-going nature of learning and development is supported by Coull et al (2013) who found that the prescribing skills of the participants in their study appeared to have increased over time. Bowskill (2009) referred to this as ‘an assimilation of
knowledge’ whereby nurse prescribers continue to gather knowledge as they prescribe, a concept also identified by Stenner and Courtenay (2008a).

Unfortunately, despite this need for knowledge and continuing professional development (CPD), nurses prescribers had experienced difficulties in accessing it, particularly CPD arranged by the employers (Luker and McHugh, 2002; Harris and Taylor, 2004). Whilst acknowledging that these studies were undertaken relatively early on in the lifespan of nurse prescribing, the later study by Hall (2006) also found this to be the case. More recently, Cousins and Donnell’s (2012) study, which focused on job satisfaction and work-related stress in general practice, again identified a lack of access to updates and a lack of support from general practice for their CPD. However, worthy of note is that nurses had differing perceptions of whose responsibility it was to provide CPD opportunities, with some accepting it as their own and actively seeking CPD activities, whilst others expected their employer to provide this for them (Hall, 2006). As such, the CPD accessed varied, with some seeking support from colleagues and using information from drug companies and journals to update themselves, whilst those in more specialised fields of practice accessed CPD which was more specialised (Luker and McHugh, 2002; Carey, Courtenay and Burke, 2007; Carey, Stenner and Courtenay, 2010). The reality of the situation was effectively summarised by the Scottish Government (2009) who suggested that a lack of support for CPD could compromise patient safety.

‘Professional accountability and boundary setting’

In ten of the qualitative, four of the mixed methods papers and the metasynthesis paper, the theme of ‘professional accountability and boundary setting’ emerged. Nurse prescribers demonstrated accountability in a range of guises, including awareness of boundaries, competence and confidence. The perception of accountability differed dependent on the prescribing situation, particularly when prescribing products (or for patients), where the risk was perceived as greater (Bowden, 2005). A prominent factor linked to accountability was the use of formularies and guidelines in setting boundaries and supporting the nurse’s prescribing practice. Stenner, Carey, and Courtenay (2010) found that nurse prescribers were more likely than GPs to follow guidelines and used these to support their decision-making, whilst deviation from these was linked to a higher level of decision-making, acknowledging the individual’s accountability for complex decisions. Similarly, Hall (2006) found that nurse prescribers who did deviate from guidelines and formularies tended to be more experienced nurse prescribers.

Darvishpour et al (2014) identified competence as one of the key facilitators of prescribing and having clear links to professional accountability and to the need for knowledge. Maddox (2011) aimed to examine factors which influenced competency in NMPs and found that even though they perceived themselves as competent, they were less sure that others health professionals were able to make that same judgement about them. The nurses in the study related their competence to their level of
pharmaceutical knowledge, their skill in considering differential diagnoses and establishing a
diagnosis and an ability to effectively monitor and modify the treatments prescribed.

Many studies which explored nurse prescribers’ experiences identified confidence as a key influence
on their prescribing activity. Stenner and Courtenay (2008a) reported an increased confidence in
recommending medications amongst nurse prescribers, with Carey et al (2014) similarly reporting a
general increase in confidence. Interestingly, confidence was seen as developmental (Luker and
McHugh, 2002; Downer and Shepherd, 2010), in that there was a perception of building up
confidence to prescribe. In fact, lack of opportunity to build up and develop confidence was seen as a
barrier to prescribing (Hall et al, 2003; Bradley, Hynam and Nolan, 2007). Completion of the
prescribing programme was seen by nurse prescribers as a starting point from which confidence
would grow, with many using their colleagues as a conduit for developing competence (Bradley et al,
2007). It is apparent that nurse prescribers give much consideration to their professional
accountability and that they set boundaries on their prescribing practice in line with this.

‘Safety Consciousness’

Safety featured in four of the mixed methods studies, the metasynthesis paper and nine of the
qualitative studies reviewed, with evidence of nurses adopting their prescribing practice to maintain
the safety of their patients. Bradley et al (2007) found that nurse prescribers perceived their current
prescribing as safer than the ‘by proxy prescribing’ previously used, as they were prescribing on the
basis of their own assessment of the patient’s needs. Nurses were able to identify key processes and
practices in prescribing as supporting safety, including accountability, responsibility for keeping up to
date and undertaking regular audits of their practice (Bradley et al, 2007). However, Carey et al
(2014) identified that the increased responsibility for nurse prescribers often resulted in increased
anxiety, with nurses worrying about making mistakes or being penalised for their prescribing
decisions. Interestingly, although there was no evidence of any mistakes having been made, the
nurse prescribers in Jones et al’s (2007) study identified concern about making mistakes as a barrier
to prescribing, suggesting that nurse prescribers perceive a blame-culture.

Factors which nurse prescribers considered as risks emerged in a number of studies and were closely
linked to the desire to avoid harm. Maddox (2011) identified that nurse prescribers perceived a
‘degree of risk’ with certain prescribing situations, such as prescribing outside of guidelines,
prescribing high doses or off-label and prescribing high risk medicines. Other concerns related
specifically to characteristics of the patient, with some nurses feeling uncomfortable if prescribing for
the very old and/or the very young (Hall et al, 2003). Both Maddox (2011) and Carey et al (2014)
identified that nurse prescribers appeared more concerned about safety when the patient had co-
morbidities and were therefore considered higher risk, compounded in situations where support for
the nurse prescriber was not readily available. It is evident from the literature that a range of
strategies are used by nurse prescribers to maintain the safety of their patients. The use of a personal
formulary was often used to support safe prescribing as it was exclusively made up of drugs which the
nurse felt she/he was competent and safe to prescribe but with the decision made not to prescribe when there were safety concerns (Maddox, 2011). It would seem that nurse prescribers have a safety consciousness which influences their prescribing practice, although it is unclear if this is as a result of prescribing or if it is already inherent in their nursing practice.

‘Barriers to effective prescribing’

Unsurprisingly, factors identified as supporting prescribing, featured as barriers when absent, a theme which emerged in the metasynthesis paper as well as four of the mixed-methods studies and seven qualitative studies. A lack of pharmaceutical knowledge was acknowledged as a self-imposed factor in preventing nurse prescribers writing a prescription (Carey et al, 2007; Coull et al, 2013; Darvishpour et al, 2014). As such, when training and support were perceived to be lacking or inadequate, this was seen as a further barrier (Davies, 2005; Carey et al, 2007; Maddox, 2011; Cousins and Donnell, 2012; Coull et al, 2013; Brodie et al, 2014; Courtenay et al, 2014). Brodie et al (2014) identified time and resources as barriers to prescribing as well as the act of prescription writing itself, which Bowden (2005) referred to as the ‘chore’ of writing prescriptions. This perception of prescribing as time-consuming was mirrored in the initiation and implementation of clinical management plans when using supplementary prescribing (Carey et al, 2007) and in the prescribing of controlled drugs (Maddox, 2011). In these instances, referring the patient to the GP was seen as a quicker method of ensuring the patient received the necessary medicines.

For some, the clinical setting added to the challenge of prescribing. Hall, Cantrill and Noyce (2006) found that the challenges of documenting the prescribing activity was exacerbated by the setting itself. HVs identified busy clinics as settings where prescribing was particularly difficult due to time constraints, with some nurse prescribers choosing not to reveal that they were able to prescribe. For others, the legal limitations of their prescribing rights and formulary limitations meant that they did not initiate prescribing, as they were concerned about providing a fragmented service (Davies, 2005). Although all the barriers identified so far have emerged from data collected from studies within the UK, Klein (2015) reported on Clinical Nurse Specialists in Oregon, with some similar findings. Whilst some of the barriers such as insurance costs, clearly reflected the US system, others such as role restrictions and time pressures were consistent.

It appears that the barriers to prescribing are at least in part, attributable to a general lack of infrastructure to support prescribing (Scottish Government, 2009). Coull et al (2013) identified fragmented implementation of prescribing policy which resulted in variations in implementation. Two of the initial barriers to prescribing were difficulty in getting a prescription pad and a lack of agreement regarding budgetary arrangements (Hall, 2006; Hall et al, 2006; Carey et al, 2007; Coull et al, 2013). The lack of preparation for prescribing was reflected in the need for some nurse prescribers to build relationships with GPs to gain agreement to prescribe across practices (Hall, 2006; Carey et al, 2014) and some nurses experienced explicit objection to their prescribing (Hall, 2006, Hall et al, 2006).
Interestingly, even though they were able to identify a number of benefits to the patient and to their role, a number of studies made reference to the nurse prescriber’s assertion that they undertook the role of prescriber without ‘reward’ through grade or pay (Davies, 2005; Scottish Government, 2009; Downer and Shepherd, 2010; Cousins and Donnell, 2012; Darvishpour et al, 2014). This desire for recognition by many nurse prescribers of the additional work and responsibility that nurse prescribing brings, may be associated with their perception of the nursing role itself.

‘Role Preservation’

A concept represented in a third of the studies reviewed (fourteen qualitative; three mixed methods and a metasynthesis), was that of ‘role’, with a desire to preserve the nursing aspect of this. Prescribing was seen as an essential component of the nurses’ role, particularly for specialist nurses (Bowskill, 2009; Carey et al, 2014). The nurse prescribers in Maddox’s (2011) study stated they would not prescribe if they did not feel that it was within their role, yet the perception of how prescribing was accommodated within a nursing role varied. Bradley and Nolan’s (2007) study produced some rich data in relation to this issue, with some nurses feeling it legitimised their role by enabling them to ‘integrate caring and curing’, a perspective mirrored by Mahoney and Ladd (2010) who identified that nurses felt they were ‘more than a prescriber’. However, some nurses did make a distinction between prescribing and nursing, using terms such as ‘spending more time on prescribing than nursing’ and ‘wearing lots of different hats’, demonstrating that some nurses did not see it as integral to their nursing role (Bradley and Nolan, 2007). What appears to emerge from many studies, is that there is a desire to differentiate the role of the nurse prescriber from that of the doctor.

‘Medicalisation’ of the nursing role was identified as a concern by nurses in a number of studies (Bradley and Nolan, 2007; Scottish Government, 2009; Coull et al, 2013), with a clear resistance to the suggestion that prescribing leads to medicalisation (Davies, 2005; Bowskill, 2009; Stenner et al, 2010). Brodie et al (2014) identified that in view of prescribing moving from an activity once exclusive to doctors, there had to be a necessary shift in power to enable this, reflecting what Carey et al (2010) termed ‘shared territory’. Indeed, prescribing was found to bring with it more job control and enhanced status (Cousins and Donnell, 2012), suggesting a strengthening of the professional role of nurses through increased status and trustworthiness (Wilhelmsson and Foldevi, 2003), increased recognition and respect (Scottish Government, 2009; Coull et al, 2013; Darvishpour et al, 2014) and an ‘increased credibility and confidence to recommend medicines’ (Stenner and Courtenay, 2008a).

‘Power-shifts and inter-professional relationships’

Seventeen of the papers reviewed, which included five mixed method papers, a metasynthesis and eleven qualitative studies presented data which was representative of the theme of ‘power-shifts and
inter-professional relationships’, identifying a need for adjustments in professional relationships in order to enable effective implementation of prescribing. Bowden (2005) found that nurse prescribers experienced inappropriate expectations from other health care professionals, indicating a lack of understanding of the professional and legal boundaries of the role. Furthermore, some prescribers experienced resistance which some perceived as professional rivalry (Bowskill, 2009). Although nurse prescribers felt support from nursing colleagues was desirable (though not essential) (Bowskill, 2009), when prescribing in more complex situations, where clinical decisions were perceived as higher risk, a team approach to prescribing was seen as a necessity (Stenner and Courtenay, 2008; Stenner et al, 2010; Carey et al, 2010; Lewis-Evans and Jester, 2014).

Indeed, nurse prescribing has provided opportunity to develop relationships with other health professionals (DH, 2011; Darvishpour et al, 2015; Coull et al, 2013), with the nurse-pharmacist relationship most frequently cited (Stenner and Courtenay, 2008, Bradley, 2007, Hall, 2006, Bowden, 2005). Pharmacists are perceived by NMPs to have a key role in safety (Bradley et al, 2007) and are a key source of support (Klein, 2015). Similarly, the nurse prescriber–doctor relationship was seen as important in supporting prescribing (Bradley et al, 2007; Northern Ireland Practice and Education Council for nursing and midwifery (NIPEC), 2007; Bowskill, 2009; Stenner et al, 2010). Some nurse prescribers encountered a lack of understanding by doctors of the boundaries of their role and their awareness of budgetary issues (Wilhelmsson and Foldevi, 2003; Carey et al, 2010), sometimes to the extent that they would not support nurse prescribing (NIPEC, 2007). In addition, some nurse prescribers perceived that doctors considered the prescribing rights of nurses as a threat to their own profession (Bradley et al, 2007) and that prescribing should be exclusive to their profession (Wilhelmsson and Foldevi, 2003), to the extent of employing financial or managerial control on nurse prescribing without having any authority to do so (Fisher, 2010). However, others had a more positive experience, with doctors trusting nurse prescribers to set their own boundaries (Carey et al, 2007; Bowskill, 2009; Mahoney and Ladd, 2010). Prescribing was felt to have given nurses increased confidence to debate with doctors (Bradley et al, 2007) and provided more opportunity for cooperation between them (Wilhelmsson and Foldevi, 2003). Indeed, it was recognised that new boundaries of practice had to be agreed in order to work collaboratively and to enable nurses to define their prescribing role (Bowskill, 2009).

‘Culture of prescribing’

It appears that for nurse prescribing to flourish, it needs to be recognised, understood and be integral to the organisation’s processes, demonstrating a culture supportive of prescribing; a theme which emerged in six of the included qualitative studies as well as two of the mixed method studies and a literature review. A clear policy on NMP, access to CPD, formal support mechanisms and a learning environment which encourages knowledge sharing across professions and the opportunity to influence policy were perceived as key factors indicative of a supportive organisation (Stenner and Courtenay, 2008). The ease with which nurse prescribing is implemented appears to be influenced by
how prepared the organisation was in relation to CPD, structures and processes (Stenner et al, 2010a; Jones et al, 2007; Stenner and Courtenay, 2008). Stenner et al (2010a) also made reference to support structures and culture, identifying that a range of CPD mechanisms were needed to achieve structures and cultures supportive of nurse prescribing. Where good inter-professional working relationships existed, this helped to promote a supportive culture for NMP and the support of the doctor was seen as key to this. However, the large scale study by DH (2011) found that only half of Trusts had a strategy for the development of NMP and it was largely driven by the practitioner to enhance existing services rather than enable service re-design, suggesting that its benefits are not yet fully appreciated in some areas. Indeed, even when the benefits are recognised by patients, colleagues and stakeholders alike, there is still evidence of fragmentation in policy and implementation (Coull et al, 2013).

Limitations

One of the key objectives of undertaking this metasynthesis was to provide context for the author’s subsequent research exploring the lived experience of the nurse prescriber in primary care, utilising a phenomenological approach. As such, a broad approach was taken to the literature search to capture the wide range of possible influences on nurse prescribing. In doing so, mixed-method studies were included. However, due to the limited participant quotes provided in some of these papers, it was not always possible to clearly determine if the themes identified by the authors originated from qualitative data, quantitative data, or a combination of both.

Summary and implications

This metasynthesis was undertaken in order to gain an insight into the factors which might influence the lived experience of the prescriber. Only a limited number of studies used a research methodology appropriate for exploring lived experience to the depth associated with a phenomenological approach, so the decision to include other qualitative studies was important in order to provide sufficient context for further research. Unsurprisingly, in view of the numerous settings and specialities in which nurse prescribers practice in primary care, a wide range of themes emerged. This was reflected in the metasynthesis of literature reviews and systematic reviews in nurse prescribing undertaken by Darvishpour et al (2014), who identified eight themes from the eleven papers included.

As the health service remains under increasing financial pressures, staff are increasingly required to identify positive outcomes from the interventions they undertake. As such, it is to be expected that many of the studies in nurse prescribing identify benefits to the patient and to the service, with the recent systematic review undertaken by Weeks et al (2017) reflecting this. However, of particular interest in this metasynthesis, is the understanding that nurse prescribers appear to express a need to
benefit the patient in order to validate their prescribing but also have an inherent need to provide patient-centred care, although this is not directly explored in the studies.

A number of themes emerged from the review of these studies which influenced the scope of the nurse prescriber’s prescribing activity and many of these were reflective of the professional and ethical frameworks associated with nursing. These themes include ‘professional accountability and boundary setting’ and ‘the need for knowledge’. Perhaps not surprisingly, safety was also a consideration but it appeared to present itself as a ‘safety consciousness’ which spanned the breadth of the prescribing process, rather than simply an awareness of safety issues. The source of this safety consciousness was not directly explored in any of the studies.

Relationships and their importance to prescribing was identified, with the nurse prescriber-doctor and the nurse prescriber-pharmacist relationships having some prominence. The challenges of taking on a role that was once exclusive to doctors, appears to have resulted in some internal conflicts regarding identity some practitioners, leading to activities to support ‘role preservation’. A number of studies provided a picture of what the issues relating to role are but the impact of these on the experience of the nurse prescriber was unclear. The context in which these challenges exist and how organisations and teams can support prescribing was also explored in some of the studies. It appears that the research to date is suggestive of the need for an environment where prescribing is embraced, in order for it to be effective. However, this has to be supported by a range other factors such as policy, recognition and knowledge sharing. In other words, it would appear that a culture shift is needed and although the literature often addresses the issues individually, the concept of culture warrants further consideration and it is evident that more needs to be discovered about nurse prescribing in order to effectively support it.

The systematic review of quantitative studies undertaken by Gielen et al (2014) which made comparisons between physician and nurse prescribing, provides a useful perspective from which to consider this metasynthesis. Whilst Gielen et al’s (2014) quantitative study maintained the need for further quantitative randomised control trials, it did acknowledged that nurse prescribing is embedded in the context of other nursing activity which could impact on the findings. As such, this metasynthesis of qualitative studies offers an insight into the issues and influences which contribute to that context.

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