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Title:

Entrepreneurial Nurses in the Literature: A Systematic Literature Review

Author name:

Gunn-Berit Neergård

E-mail: gunn-berit.neergard@ntnu.no

Phone number: +47 92834506

Affiliations:

- 1) Department of Industrial Economics and Technology Management, Faculty of Economics and Management, Norwegian University of Science and Technology, 7491 Trondheim, Norway
- 2) Engage Centre for Engaged Education through Entrepreneurship, Norwegian University of Science and Technology, 7491 Trondheim, Norway

Acknowledgements:

The author wishes to thank the editor and all anonymous reviewers, as well as Professor Lise Aaboen and Professor Diamanto Politis, for their thoughtful guidance and detailed reviews.

Conflict of interest:

None.

This article has been accepted for publication and undergone full peer review but has not been through the copyediting, typesetting, pagination and proofreading process, which may lead to differences between this version and the <u>Version of Record</u>. Please cite this article as <u>doi:</u> <u>10.1111/jonm.13210</u>

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Funding sources:

None.

Ethical approval:

Ethical approval was not required as this is a literature review.

MISS GUNN-BERIT NEERGÅRD (Orcid ID : 0000-0001-8226-2917)

Article type : Review Article

Entrepreneurial Nurses in the Literature: A Systematic Literature Review

Abstract

Aim: This study explores the main characteristics of entrepreneurial nursing.

Background: Nurses have acted entrepreneurially in a multitude of ways since the very beginning of the nursing profession. Still, it is unclear what it means for a nurse to be entrepreneurial. Entrepreneurial nurses are often described inconsistently, by non-inclusive terms not founded in research. There is a need to examine the essence of entrepreneurial nursing roles.

Evaluation: I conducted the research as a systematic literature review of 647 documents. Analysing empirical descriptions of entrepreneurial nurses' employment status, contexts, knowledge, activities, barriers and motivations led to the description of two entrepreneurial nursing roles.

Key issues: The employment status of entrepreneurial nurses represent an important difference in their activities, challenges and motivations.

Conclusions: Entrepreneurial nurses may act as nurse entrepreneurs or nurse intrapreneurs. These roles are empirically rooted in the field of nursing, and theoretically rooted in the field of entrepreneurship.

Implications for Nursing Management: Entrepreneurial nurses are influenced by the support they get and the challenges they face in the healthcare system. Knowing the characteristics of entrepreneurial nurses are important for nurse managers, as they lead employees who may become nurse entrepreneurs or nurse intrapreneurs.

Keywords: Entrepreneurial nursing; employment; entrepreneurship; management; nursing;

Introduction

'To meet future health-care delivery challenges, nurses and midwives need to be able to challenge current practice, be leaders of change, and show how they have a real impact on health care for patients' (Douglas, 2011, p. 698).

Entrepreneurship in the profession of nursing, entrepreneurial nursing, is seen as a prerequisite to handle global healthcare challenges, improve patient safety and achieve excellence in nursing (McSherry & Douglas, 2011; McSherry et al., 2012). Numerous entrepreneurial nurses have created, and are still developing, important products and services for our modern healthcare (Hughes, 2006). This has been happening since the beginning of the nursing profession. Indeed, Florence Nightingale acted entrepreneurially, revolutionising hygiene procedures in hospitals and establishing a nursing school in the middle of the 19th century (Hughes, 2006; Lyden, 2017; Nightingale, 1859). Since then, entrepreneurial nursing has occurred in various contexts and organisations; however, it has inconsistent labelling (e.g. 'self-employment' and 'social entrepreneurship') (Wilson et al., 2012). These terms do not reflect the nuances of being an entrepreneurial nurse – furthermore, the definitions are not always founded in a research field. As an example, the International Council of Nurses' (2004, p. 4) definition of entrepreneurship in nursing is based on three documents: the first is from the Registered Nurses Association of British Columbia dating back to 1990; the second is a practice-based guidebook for nurses wishing to start a business (Vogel & Doleysh, 1994); the third is a report about marketing and nursing (Kingma, 1998). While it is difficult to identify the theoretical and empirical foundations of these sources, the International Council of Nurses' guidelines are widely used in the nursing literature to define entrepreneurship (e.g. Arnaert et al., 2018; Fletcher, 2010; Sanders & Kingma, 2012; Vannucci & Weinstein, 2017; Wilson, 2003; Wilson et al., 2004). Thus, we must establish a solid basis for entrepreneurial nursing. This study explores entrepreneurial nursing via the following research question: What are the main characteristics of entrepreneurial nursing? I examine entrepreneurial nursing roles from the individual level of analysis. I use the term 'entrepreneurial nurse' to encompass all varieties of acting entrepreneurially as a nurse (e.g. being a social entrepreneur or a self-employed nurse).

Background

Entrepreneurship is a process that unfolds over time – the entrepreneur identifies an opportunity worth pursuing and acts upon said opportunity (McMullen & Dimov, 2013; McMullen & Shepherd, 2006). Shane and Venkataraman (2000) argue this begins with something to act upon – an opportunity the entrepreneur wishes to explore. The opportunity is just that – it is not a promise, nor does it have a predictable result. Entrepreneurs act under uncertainty using their beliefs and knowledge to decide what to do and fuelled by their motivations for why they should do it (McMullen & Dimov, 2013; McMullen & Shepherd, 2006) – this mechanism also applies to entrepreneurial nurses (Wilson & Averis, 2002). The entrepreneur is the essential person driving this process forward, either alone or in a team (Bruyat & Julien, 2001). Entrepreneurship does not happen in a vacuum – it is dependent upon the context in which it occurs. Entrepreneurs from different social backgrounds may perceive different opportunities, motivations and resources to accomplish their goals. Furthermore, all social ties – such as potential customers, suppliers,

partners or competitors – may influence the process and its outcomes (Anderson & Jack, 2002; Anderson & Miller, 2003). Entrepreneurship may unfold in any industry, new or established. Entrepreneurship in an established organisation is called intrapreneurship and entails identifying and pursuing opportunities related to the organisation's products, services, procedures, etc. An intrapreneur is the person responsible for this process (Antoncic & Hisrich, 2003). An intrapreneur shares the risks and benefits of the process with the employer organisation and pursues opportunities in line with the organisation (Wilson et al., 2012).

Four previous reviews and conceptual papers from the field of nursing have shed light on entrepreneurial nursing. One aspect regarded the applicability and relevance of entrepreneurial nursing in society (Wilson & Averis, 2002) and in various types of organisations (Drennan et al., 2007). Wilson et al. (2012) explored the differences between entrepreneurship, intrapreneurship and social entrepreneurship in nursing. Arnaert et al. (2018) addressed the educational gaps related to entrepreneurial nursing. These four papers have provided important insights relevant to grasping the complexity of entrepreneurial nursing; however, they do not clarify the terminology or create a solid, inclusive basis for global entrepreneurial nursing. Previous research about entrepreneurial nurses must be synthesised to understand various entrepreneurial nursing roles.

Methods

In this literature review, I follow the process that Tranfield, Denyer and Smart (2003) suggested; I began by defining core concepts.

[Figure 1: The Systematic Review Process]

Data Collection

I searched in Scopus, a scientific database including both medicine and business publications. To include a wide array of research about nursing and entrepreneurship, I combined nurs* with either entrepren*, self-employ* or intrapren*. I chose journal articles written in English, resulting in 647 documents. I read all of the available abstracts and excluded the following: articles that did not include both nursing and an entrepreneurial topic; non-empirical texts and texts about undergraduate nursing students, as I wanted to explore the processes and characteristics of practicing entrepreneurial nurses; and non-research (e.g. documents not describing their methods). Excluding non-research was a challenging task, as 49% of the results were non-scientific texts, such as news items, feature articles, opinions, personal stories, advertisements and texts for membership or union journals. Wilson and Averis' (2002) and Drennan et al.' (2007) literature reviews also describe this. A total of 296 documents did not have abstracts; thus, I read the first paragraph of the text instead. To keep track of my selection process, I briefly annotated my choices, such as 'Exclusion, this is a news story from *TIME Magazine*, not research'. Abstract selection reduced the number of documents to 164 papers. I applied the same exclusion criteria while reading the 164 full papers, leaving a final included sample of 37 documents.

Analysis

I started this inductive thematic analysis by mapping all of the studies in terms of aims, study topic, methods, empirical contexts, results, definitions of entrepreneurship and author backgrounds (details in Appendix 1). I followed the six phases of thematic analysis Braun and Clarke (2006) described: 1) familiarising myself with the data, 2) generating initial codes, 3) searching for themes, 4) reviewing themes, 5) defining themes, 6) producing the report. One initial code that became a theme was the differences in the entrepreneurial nurses' contexts (see Table 1 for details). Nurses were working as employees and business owners in rural and/or urban areas; in primary care, secondary care and private practices; in businesses; and in the education sector. As a second theme, I found that knowledge and lack thereof was a reoccurring topic in the literature. I identified three sub-themes of knowledge and skills: 1) clinical nursing expertise, 2) entrepreneurship and 3) management (see Table1). All nurses have nursing skills; however, the majority of the nurses in the literature were clinical experts with several decades of clinical experience and/or advanced nursing degrees (e.g. nurse practitioners and midwives).

[Table 1: Inductive Thematic Analysis]

The literature also describes entrepreneurial nurses' activities. I divided this third theme into five subthemes: 1) clinical nursing and consultancy; 2) opportunity recognition and creation; 3) networking and collaboration; 4) management and administration; 5) marketing, sales and funding; and 5) research, education and training. A fourth theme to emerge was the multiple barriers to entrepreneurial nursing: 1) hierarchy, (lack of) power and tradition; 2) finance, law and reimbursement; 3) lack of knowledge and skills; 4) personal conflicts and negativity; and 5) time management. I defined the fifth and final theme as motivation. The literature shows that entrepreneurial nurses wish to 1) improve the quality of care, 2) maintain their professional identities, 3) improve their work situations, 4) achieve financial gain and 5) achieve selfrealisation.

To ensure the thematic analysis covered the most important topics in the literature, I read each article several times to look for new themes. When I reached saturation, I read all papers again in alphabetical order and coded them into a final matrix (Table 1). I noticed that the nurses' employment status split the literature in two: 22 articles described business owners, and 18 articles described employees; only three articles described people that fit both categories. Thus, as a final step, I compared the employment statuses to detect differences in knowledge, activities, barriers and motivations (Table 2). I compared the two groups (employees vs business owners) by counting the presence of each theme (knowledge, activities, barriers, motivations) and looked at the percentage coverage of each theme in each group. This analysis illustrated similarities and differences between employees and business owners.

[Table 2: Comparing Employment Status]

Results

Beginning with general findings, the combination of nursing and entrepreneurship is researched globally – this review includes papers from 16 countries. Of the 37 articles, 27 were written by authors specialised in nursing. Further, 22 (60%) were based on qualitative research methods, 13 (35%) used

quantitative methods and two used mixed-methods. The most common terms associated with entrepreneurial nurses in the literature were variations of the word 'entrepreneur', such as 'nurse entrepreneur' and 'social entrepreneur' (e.g. Andrade et al., 2015; Elango et al., 2007; Farmer & Kilpatrick, 2009; Wilson et al., 2003, 2004). Crofts (1994) combined 'entrepreneur' with clinical nursing credentials: 'certified nurse-midwife entrepreneur'. Nurses working in private or public institutions were portrayed as enterprising nurses, intrapreneurs, public sector entrepreneurs or change agents (Gibson, 2013; Marques et al., 2019; Sundin & Tillmar, 2008; Wall, 2014). Finally, nurses running clinical businesses were called self-employed nurses, independent contractors, independent nurses and private practice nurses (Caffrey, 2005; Lyden, 2017; Rolfe et al., 2008; Waite, 2019). Wilson et al. (2004) explored 'private practice nursing' by researching 'self-employed nurse entrepreneurs' (p. 488), thus using several terms interchangeably or simultaneously. Of the 37 articles, 25 (68%) did not define entrepreneurship or related concepts. In what follows, I present entrepreneural nursing regarding all the themes from my analysis: contexts, knowledge, activities, barriers and motivations.

Contexts

Entrepreneurial nurses work in both primary care (e.g. elderly homes) and secondary care (e.g. hospitals). Of the 37 articles, 18 (49%) were on nurses in private practices (e.g. clinics providing primary and/or secondary care). Nursing businesses that do not deliver care occurred in four papers (11%). Finally, nurses often run small businesses with 1–10 employees (Sankelo & Åkerblad, 2008, 2009; Wilson et al., 2004).

Knowledge

Of 37 papers, 27 (73%) described entrepreneurial nurses as clinical experts with advanced nursing degrees or decades of clinical experience (Neidlinger, Bartleson et al., 1992; Neidlinger, Drews et al., 1992; Richter et al., 2019). However, some nurses began their ventures directly after graduation (Thompson, 2019). Knowledge about entrepreneurship and/or management is described in 13 articles (35%). As an example, Sankelo and Åkerblad (2008, 2009) found that their participants had relevant education and experience in both business and nursing before starting their own company. This does not regard all entrepreneurial nurses, as 10 articles described a lack of entrepreneurial knowledge and skills and a lack of infrastructural support (Elango et al., 2007; Rolfe et al., 2008; Sharp & Monsivais, 2014). By offering learning activities, Jahani et al. (2018) found that entrepreneurship education affected nurses' self-efficacy and entrepreneurial intentions, which is in line with Marques et al. (2018). Marques et al. (2019) found aspiring entrepreneurs to be more self-confident about their managerial skills and risk-taking and slightly more self-motivated than nurses without entrepreneurial ambitions.

Activities

The majority of the literature, 36 papers (97%), describes clinical nursing and consultancy as key activities for entrepreneurial nurses. Some provide patient care in their practices (Caffrey, 2005; Lyden, 2017; Rolfe et al., 2008; Waite, 2019; Wall, 2014, 2015), and others are employed as clinical staff in institutions (Gibson, 2013). However, to be entrepreneurial, they also perform activities such as opportunity recognition and creation, mentioned in 23 papers, 62% of the literature. Entrepreneurial nurses generate ideas, utilise resources and initiate projects (Farmer & Kilpatrick, 2009; Richter et al., 2019). Some establish ventures and perform activities such as retail, wholesale and equipment rentals (Andrade et al., 2015). They convey their

ideas to others, they build support and gain approval to initiate, manage and evaluate their initiatives (Austin et al. 2006). Eleven papers also describe entrepreneurial nurses who perform research or participate in education and training (Caffrey, 2005; Farmer & Kilpatrick, 2009; Mitchell et al., 2010; Neidlinger, Bartleson et al., 1992; Richter et al., 2019). Managers and medical staff with extended authority can encourage and facilitate the initiation of entrepreneurial activities (Åmo, 2006; Austin et al., 2006; Bagheri & Akbari, 2018; Neidlinger, Bartleson et al., 1992; Neidlinger, Drews et al., 1992).

Barriers

In all, 26 papers, 70% of the literature, describes barriers to entrepreneurial nursing. For example, nine articles mention personal conflicts and negativity, as nurses can face scepticism and criticism for merging business and caring (e.g. Wall, 2015). 12 papers regards challenges related to financing, legal matters and reimbursement, as nursing initiatives are often left out of insurance and reimbursement policies (e.g. Elango et al., 2007; Wilson et al., 2004). Furthermore, many entrepreneurial nurses lack entrepreneurial knowledge and skills (e.g. Sharp & Monsivais, 2014). Hierarchic healthcare with power imbalances between professions, role conflicts and friction between colleagues may hinder entrepreneurial development (Andrade et al., 2015; Austin et al., 2006; da Silva João & Saldanha Portelada, 2019; Elango et al., 2007; Sharp & Monsivais, 2014; Wall, 2013; Wilson et al., 2004).

Motivations

Entrepreneurial nurses often wish to improve the quality of care (e.g. by serving an underserved population, accepting poor clients and improving patient outcomes) (Kirkman et al., 2018; Rolfe et al., 2008; Sharp & Monsivais, 2014; Waite, 2019). In all, 16 papers, 43% of the literature, describes how nurses choose entrepreneurship to maintain their professional identity by, for example, working after retirement (Rolfe et al., 2008), practising advanced clinical skills (Waite, 2019; Wall, 2013) or practising entrepreneurial skills (Austin et al., 2006; Marques et al., 2018). According to 19 studies, 51% of the literature, nurses choose entrepreneurship to control their workdays and careers and to increase autonomy and job satisfaction after feeling discontent with traditional employment (e.g. Sankelo & Åkerblad, 2008; Waite, 2019; Warmelink et al., 2015). Twelve articles mention financial success as a motivation or as a result of the entrepreneurial journey (e.g. Roggenkamp & White, 1998; Sankelo & Åkerblad, 2008). However, some nurses just want to supplement their retirement income, maintain their services and avoid financial issues (Rolfe et al., 2008).

Employment Status

When comparing employment status, I found important differences in nurses' activities, barriers and motivations. First, the literature describes that business owners perform activities related to management and finances more frequently than employees. As an example, 59% of the literature about business owners mentions marketing, sales and funding in comparison to 17% of the literature about employees. Second, business owners are more present in the literature describing barriers tied to finances, lack of entrepreneurship knowledge, personal conflicts and time management. Third, business owners are more present in the literature about entrepreneurial motivations, especially the wish to improve quality of care and to achieve financial success and self-realisation. Knowledge of entrepreneurship knowledge is a bigger challenge

for business owners than for employees, as this is described in 36% of the business owner literature and only 17% of the employee literature. Challenges regarding hierarchy and traditional roles in healthcare seem to be an important barrier for both groups (mentioned in 39% and 41% of the literature, respectively).

Discussion

Based on my findings, I discuss what it means for a nurse to be entrepreneurial. The literature portrays entrepreneurial nurses as nurses first and foremost (Wall, 2013b, p. 981). Their nursing backgrounds and contexts influence their entire entrepreneurial processes. As an example, 36 of 37 papers describe clinical nursing as a key activity for entrepreneurial nurses; 18 of 37 papers focus on private practices. Thus, entrepreneurial nurses identify opportunities related to clinical nursing.

This literature review reveals that entrepreneurial nurses' employment status represents an important difference in their activities, challenges and motivations. Activities and worries related to management and finances are more often related to business owners than to employees. Business owners are also more often described as being challenged by the lack of knowledge and skills in entrepreneurship. These findings are not surprising, as business owners manage their new ventures through uncertainty and by taking financial risks (McMullen & Shepherd, 2006). Employees experience other challenges, e.g. lack of decision-making power in the organisation (Austin et al., 2006). Employees also have different resources than business owners, e.g. being surrounded by a safety net of multidisciplinary colleagues and managers in an established organisation (Neidlinger, Drews et al., 1992). Entrepreneurs who start new ventures are driven by motivations (McMullen & Shepherd, 2006). This aspect further separates business owners from employees, as the literature on business owners focuses more on entrepreneurial motivations. Employees may not be dependent upon motivations to the same extent as those leaving their traditional jobs for business, as managers may influence their entrepreneurial actions (Åmo, 2006). Two entrepreneurial nursing roles emerge from these differences: the nurse entrepreneur and the nurse intrapreneur. The first drives an entrepreneurial process through new venture creation, the other initiates an entrepreneurial process as an employee.

Nurse Entrepreneurs

Nurse entrepreneurs establish new ventures to create new value. Some care for patients through their businesses, for instance, by establishing healthcare institutions or home visit services (Ippoliti et al., 2018; Rolfe et al., 2008), whereas others establish ventures that offer products and services excluding direct care. They may work with retail, wholesale and equipment rentals (Andrade et al., 2015; Thompson, 2019) or establish non-profit initiatives in the realm of social entrepreneurship (Moshabela et al., 2013). Nurse entrepreneurs often have vast knowledge and experience from their clinical work – they seek entrepreneurship as an escape from traditional, stressful employment (e.g. Roggenkamp & White, 1998; Waite, 2019; Warmelink et al., 2015). Their lack of business knowledge is a challenge – nurse entrepreneurs seldom have access to entrepreneurship courses and networks (Wall, 2015; Wilson et al., 2003). They also face financial risks and legal challenges whilst managing daily operations, overseeing sales and marketing and leading potential employees (e.g. Elango et al., 2007; Rolfe et al., 2008; Sharp & Monsivais, 2014; Wilson et al., 2004). Juggling different roles within a small company (acting as an owner, manager, clinical nurse, colleague

and friend), as well as the ethical considerations of starting a business in the care sector, may lead to personal conflicts (Elango et al., 2007; Vannucci & Weinstein, 2017; Wall, 2013).

Nurse Intrapreneurs

The process of nurses acting entrepreneurially through their employment in established organisations and institutions is called intrapreneurship (Antoncic & Hisrich, 2003). Nurse intrapreneurs are often clinically experienced and educated. They seldom have business skills; however, some intrapreneurial nurses receive training from their employers (Mitchell et al., 2010). As nurse intrapreneurs do not leave traditional employment, they experience fewer risks and financial worries than nurse entrepreneurs. Nurses often lack the authority to create changes (Austin et al., 2006), meaning that nurse intrapreneurs must engage their peers and managers in their entrepreneurial processes. They must understand the organisation as a whole and establish their initiative in line with the employer organisation. Thus, nurse intrapreneurs are guided and inspired by managers who facilitate strategic development (Åmo, 2006; Bagheri & Akbari, 2018; Mitchell et al., 2010; Neidlinger, Bartleson, et al., 1992; Neidlinger, Drews, et al., 1992).

Limitations

This is a systematic literature review of research from one database: Scopus. Papers about entrepreneurial nursing that were not available through Scopus may exist and could have contributed to the review. Furthermore, excluding non-empirical papers and non-research may have excluded valuable notions of entrepreneurial nursing from a conceptual or discursive viewpoint. Including only English literature may also have excluded important papers in different languages. I lean on papers from the research field of entrepreneurship. By not choosing innovation as a search term, I may have lost cues of entrepreneurial nurses described as change agents or innovators – however, innovation and entrepreneurship are separate research fields (Landström et al., 2012), and there was a need for a review focused on entrepreneurship literature.

Conclusion

This is a systematic literature review of 647 documents about entrepreneurial nursing, with an inductive thematic analysis of 37 empirical papers. I explored the contexts, knowledge and skills, activities, barriers and motivations of entrepreneurial nurses described in the literature. I propose nurse entrepreneurs and nurse intrapreneurs to be distinct entrepreneurial nursing roles. The two roles cover all aspects of entrepreneurial nursing whilst also being clearly separated. The two roles are empirically rooted in the field of nursing and theoretically rooted in the field of entrepreneurship. This review contributes to the nursing profession by clarifying terms and including all the nuances of entrepreneurial nursing in two separate roles. Knowledge about entrepreneurial nursing may lead nurses to choose it, enable managers to facilitate it, help educators to teach it and encourage colleagues to support it. Future empirical research should target each entrepreneurial role to explore more nuances in differences and common denominators. The recent literature presents few examples of nurse entrepreneurs with ventures that are not delivering care services, and there is a need for more research to exemplify the vast opportunities for venture creation in healthcare. Future

research should also investigate entrepreneurial nursing from the research field of innovation, exploring the role of innovation in entrepreneurial nursing processes.

Implications for Nursing Management

Entrepreneurial processes do not happen in a vacuum (Bruyat & Julien, 2001), and the meanings and actions of nurse managers, educators and colleagues may impact entrepreneurial nurses' attempts to create change (Dackert, 2010; McSherry et al., 2012; Weng et al. 2015). Nurse managers are important facilitators of entrepreneurial processes. Thus, the insights from this paper will be valuable for nurse managers leading aspiring entrepreneurial employees, for managers facilitating their employees' journey into entrepreneurship or intrapreneurship and for both parties navigating through barriers and motivations.

Appendix 1: Literature Overview

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[Appendix 1: Literature Overview]

Citation	Journal	Method	Study topic	Definition of entrepreneurship	Author specialisation	Empirical country
(Andrade, Dal Ben, & Sanna, 2015)	Revista brasileira de enfermagem	Quant. Registry data. N= 196 nursing companies.	Entrepreneurship.	Not defined.	Nursing	הו מלוו
(Austin, Luker, & Ronald, 2006)	Journal of Clinical Nursing	Qual. Interviews and observation. N=22 clinical nurse specialists.	Entrepreneurial characteristics.	Not defined.	Nursing	UK
(Bagheri & Akbari, 2018)	Journal of Nursing Scholarship	Quant. Questionnaire, 273 nurses.	Innovation work behaviour + innovation + entrepreneurial leadership	Not defined.	Entrepreneurship	Iran
(Caffrey, 2005)	Journal of Gerontological Nursing	Qual. Interviews. N= 7 nurses + 6 clients.	Community care nursing.	Not defined.	Nursing	USA
(Crofts, 1994)	Journal of Nurse- Midwifery	Qual. Single Case study. Interviews. N=1.	Nurse practitioners.	Not defined.	Nursing	USA
(da Silva João & Saldanha Portelada, 2019)	Journal of Interpersonal Violence	Quant. 3227 nurses.	Nursing profession + mobbing.	Not defined.	Nursing, psychology	Portugal
(Dehghanzadeh et al., 2016)	Acta Medica Iranica	Quant. Questionnaire. N=58 nurses + N=167 nurses	Personality characteristics of entrepreneurs	Nurse entrepreneurs have an autonomous function to develop nursing practice models in hospital settings.	Environmental health engineering	Iran
(Elango, Hunter, & Winchell, 2007)	Journal of the American Academy of Nurse Practitioners	Qual. 2 focus groups. N=5 nurses + N= 20 nurse practitioner students	Entrepreneurial creation. Opportunity recognition, entry barriers, operational competencies.	A nurse entrepreneur is an autonomous independent nurse working directly with clients in a private practice.	Economics	USA

Ð	Citation	Journal	Method	Study topic	Definition of entrepreneurship	Author specialisation	Empirical country
C	(Farmer & Kilpatrick, 2009)	Social Science and Medicine	Qual. Interviews. N=38 health professionals	Social entrepreneurship.	Not defined.	Business, law, education	UK / Australia
	(Gibson, 2013)	Qualitative Health Research	Qual. Discursive analysis. Documents + interviews, N=26 nurses.	Nursing subjectivity. Governmentality.	Not defined.	Nursing	Australia
	(Ippoliti, Falavigna, Montani, & Rizzi, 2018)	BMC Health Services Research	Quant. Binomial regression models. EU-project.	Social entrepreneurship.	Not defined.	Economics	Italy
	(Jahani, Babazadeh, Haghighi, & Cheraghian, 2018)	Journal of Clinical and Diagnostic Research	Quant. Questionnaire. 76 nurses.	Self-efficacy.	Not defined.	Nursing	Iran
F.C.	(Kirkman, Wilkinson, & Scahill, 2018)	Journal of Primary Health Care	Qual. Interviews with 7 nurse practitioners.	Social capital + social entrepreneurship	Nurse practitioners work autonomously as lead healthcare providers for healthcare consumers.	Nursing, management	New Zealand
	(Lyden, 2017)	Journal of the American Association of Nurse Practitioners	Dissertation. Mixed-methods. Survey (n=142). Interviews (n=13).	Organizational empowerment + job satisfaction.	Nurse practitioners own private practices. They are reimbursed for the health care they provide.	Nursing	USA
	(Marques, Marques, Ferreira, & Ferreira, 2019)	International Entrepreneurship and Management Journal	Quant. Structural equation model, 536 nurses.	Intrapreneurship.	An intrapreneur creates innovation within the healthcare organisation. (Manion, 1990)	Innovation, management	Portugal
Ü	(Marques, Valente, & Lages, 2018)	Journal of Nursing Management	Quant. Questionnaire. N=638 nurses	Entrepreneurial intentions + intrapreneurship.	Not defined.	Nursing, management	Portugal
	(Mitchell et al., 2010)	British Journal of Nursing	Qual. Written accounts from clinical nurse specialists. N=6.	Advanced nursing practice.	Not defined.	Nursing	UK

Ð	Citation	Journal	Method	Study topic	Definition of entrepreneurship	Author specialisation	Empirical country
	(Moshabela, Gitomer, Qhibi, & Schneider, 2013)	PLoS ONE	Qual. Longitudinal. Interviews with people in 61 organisations. Among these, 5 nurses.	Lay health workers. Non-profit organisations.	Not defined.	Medicine	South Africa
	(Neidlinger, Bartleson et al., 1992)	Journal of Nursing Administration	Qual. Interviews. N= 10 nurse executives + 30 nurse intrapreneurs	The venture actualization in a nursing model	Not defined.	Nursing	USA
	(Neidlinger, Drews et al., 1992)	Advances in Nursing Science	Qual. Interviews. N= 10 nurse executives + 30 nurse intrapreneurs	Innovation. Intrapreneurship.	Nurse innovators are intrapreneurs. A nurse innovation is a venture, new to one's hospital setting. (Pinchot, 1985, Rogers 1983)	Nursing	USA
	(Richter, dos Santos, Kaiser, Capellari, & Ferreira, 2019)	ACTA Paulista de Enfermagem	Qual. Interviews, 12 nurse leaders.	Gender + social entrepreneurship	Not defined.	Nursing	Brazil
	(Roggenkamp & White, 1998)	Health Care Management Review	Qual. Interviews and observations. N= 4 nurse entrepreneurs.	Management and organizational theory.	An entrepreneur perceives an opportunity and creates an organization to pursue it (Bygrave & Hofer, 1991)	Nursing and health	USA
	(Rolfe, Leshabari, Rutta, & Murray, 2008)	Health Policy and Planning	Qual. Multiple case study, 9 case districts. 58 focus group discussions and 125 interviews.	Private practice + private provision + maternity care	Not defined.	Nursing and health	Tanzania
Ũ	(Sankelo & Åkerblad, 2009)	Journal of Clinical Nursing	Quant. Questionnaire. N= 84 nurses	Well-being at work + Job demands	Not defined.	Nursing	Finland
	(Sankelo & Åkerblad, 2008)	Journal of Nursing Management	Quant. Questionnaire. N= 84 nurses	Management	Not defined.	Nursing	Finland

Citation	Journal	Method	Study topic	Definition of entrepreneurship	Author specialisation	Empirical country
(Sharp & Monsivais, 2014)	Journal of the American Association of Nurse Practitioners	Qual. Interviews. N=24 nurse practitioners.	Transition to rural practice for nurse practitioners	Not defined.	Nursing	USA
(Sundin & Tillmar, 2008)	Scandinavian Journal of Management	Qual. Longitudinal. Interviews. N=2.	Institutional / organizational entrepreneurship	Not defined.	administratio n	Sweden
(Thompson, 2019)	Mobilities	Qual. Interviews, 35 nurses.	Nursing + migration	Not defined.	Development geography	Philippines
(Waite, 2019)	Journal for Nurse Practitioners	Qual. 17 nurse practitioners.	Stark's theory of meaning.	Nurse practitioners who () create marketable services are considered innovative nurse entrepreneurs (Wallis, 2013)	Nursing	USA
(Wall, 2015)	Gender, Work and Organization	Qual. Interviews. N= 20 self- employed nurses	Female entrepreneurship. Precariousness. Self- employement.	A self-employed nurse runs a private or independent practice.	Nursing, sociology	Canada
(Wall, 2014)	Journal of Health, Organisation and Management	Qual. Interviews. N= 20 self- employed nurses	Institutional theory. Change agents + change strategies.	Not defined.	Nursing, sociology	Canada
(Wall, 2013a)	Nursing leadership (Toronto, Ont.)	Qual. Interviews. N= 20 self- employed nurses	Healthcare structure. Self-employment.	Not defined.	Nursing, sociology	Canada
(Wall, 2013b)	Qualitative Health Research	Qual. Interviews. N= 20 self- employed nurses	The nursing profession.	Private practice means that employed nurses function independently. Self-employment means being one's own boss.	Nursing, sociology	Canada
(Warmelink, Wiegers, de Cock, Spelten, & Hutton, 2015)	Human Resources for Health	Quant. Questionnaire. N=98 primary care midwives.	Midwife profession. Career intentions.	Not defined.	Nursing, psychology	Netherlands

	Citation	Journal	Method	Study topic	Definition of entrepreneurship	Author specialisation	Empirical country
U	(Wilson, Averis, & Walsh, 2004)	International Journal of Nursing Practice	Quant. Questionnaire. N= 54 nurse entrepreneurs.	Entrepreneurship.	Entrepreneurship is a process. Not confined to private practice.	Nursing	Australia
	(Wilson, Averis, & Walsh, 2003)	Public Health Nursing	Mixed method. Delphi. N=59 nurses in private practice	Nurse entrepreneurship. Private practice.	A nurse entrepreneur develops, organizes, manages and assumes the risks of a business (ICN, 1994).	Nursing	Australia
	(Åmo, 2006)	International Nursing Review	Quant. Questionnaire. N=555 nurses and other healthcare workers.	Corporate entrepreneurship. Important others. Employee innovation behaviour.	Not defined.	Entrepreneurship	Norway

Table 1: Inductive Thematic Analysis

Main themes			Empi	irical o	ontex	đ		Kn	owled	dge			Activ	/ities				E	Barriei	rs		Motivations					
Sub-themes	Rural area	Urban area	Business owner	Employee	Private clinic/service	Business	Higher education institutions	Specialised in clinical nursing*	Entrepreneurship	Management	Clinical nursing/consultancy	Opportunity recognition/creation	Networking/collaboration	Management/administration	Marketing/sales/funding	Research/education/training	Hierarchy/power/tradition	Finance/law/reimbursement	Lack of knowledge and skills	Personal conflicts/negativity	Time management	Improve the quality of care	Maintain professional identity	Improve work situation	Achieve financial gain	Achieve self-realisation	
(Andrade et al.,2015)		x	x			x					x	x		x	x	x						x		x	x		
(Austin, Luker, & Ronald, 2006)	x			x				x			x	x	x		x		x					x	x	x			
(Bagheri & Akbari, 2018)		x		x				x			x	x															
(Caffrey, 2005)	x		x		x						x			x	x	x	x	x			x					x	
(Crofts, 1994)			x		x			x	x		x							x	x								
(da Silva & Saldanha Portelada , 2019)				x							x	x								x							
(Dehghan zadeh et al., 2016)		x		x							x																
(Elango et al., 2007)			х	x		x	x	x		x	x	x				x	x	x	x	x							
(Farmer & Kilpatrick, 2009)	×			x							x	x	x	x	x							x	x	x		x	
(Gibson, 2013)				x							x			x							x						
(Ippoliti et al., 2018)	x		x		x						x											x					
(Jahani et al., 2018)		x		x					x		x					x			x								
(Kirkman et al. <i>,</i> 2018)	x		x	x				x			x		x									x			x		
(Lyden, 2017)	x	x	x		x			x			x	x		x			x		x		x	x	x	x	x	x	

Main themes			Empi	rical c	ontex	¢t		Kn	owled	lge			Activ	vities				E	3arriei	rs			Mo	otivati	ons	
Sub-themes	Rural area	Urban area	Business owner	Employee	Private clinic/service	Business	Higher education institutions	Specialised in clinical nursing*	Entrepreneurship	Management	Clinical nursing/consultancy	Opportunity recognition/creation	Networking/collaboration	Management/administration	Marketing/sales/funding	Research/education/training	Hierarchy/power/tradition	Finance/law/reimbursement	Lack of knowledge and skills	Personal conflicts/negativity	Time management	Improve the quality of care	Maintain professional identity	Improve work situation	Achieve financial gain	Achieve self-realisation
(Marques et al., 2019)				x				x		x	x						x		x							x
(Marques et al., 2018)				x				x	x	x	x						x						x	x	x	x
(Mitchell et al., 2010)				x				x	x		x	x		x		x						x	x			
(Moshabe la et al., 2013)	x		x		x			x	x		x	x	x									x	x	x		×
(Neidling er, Bartleson et al., 1992)				x				x		x	x	x	x	x	x	x					x			x		
(Neidling er, Drews et al., 1992)				x				x		x	x	x	x	x												
(Richter, et al., 2019)	x			x				x	x		x	x	x	x		x	x	x				x	x	x		x
(Roggenk amp & White, 1998)			x		x	x		x	x		x	x	x	x	x	x			x			x	x	x	x	x
(Rolfe et al., 2008) (Sankelo	x	x	х		x			x			x				x		x	x	x			x	x		x	
& Åkerblad, 2009)			x		x			x	x	x	x	x	x	x	x						x			x	x	x
(Sankelo & Åkerblad, 2008)			x		x			x	x	x	x			x					x	x						
(Sharp & Monsivais , 2014)	x		x		x			x			x		x	x	x			x	x	x	x	x				

	Main themes		Empirical context							owled	lge			Activ	vities				E	Barrie	rs			Mo	otivati	ons	
	Sub-themes	Rural area	Urban area	Business owner	Employee	Private clinic/service	Business	Higher education institutions	Specialised in clinical nursing*	Entrepreneurship	Management	Clinical nursing/consultancy	Opportunity recognition/creation	Networking/collaboration	Management/administration	Marketing/sales/funding	Research/education/training	Hierarchy/power/tradition	Finance/law/reimbursement	Lack of knowledge and skills	Personal conflicts/negativity	Time management	Improve the quality of care	Maintain professional identity	Improve work situation	Achieve financial gain	Achieve self-realisation
	(Sundin & Tillmar, 2008)				x				x			x	x	x	x			x							x		
	(Thompso n, 2019)		x	x			x						x		x	x								x	x	x	x
	(Waite, 2019)			x		x			x			x	x		x							x	x	x	x	x	x
	(Wall, 2015)			x		x			x			x	x	x	x	x		x	x		x		x	x	x	x	x
	(Wall, 2014)			x		x			x			x	x	x	x	x	x	x	x		x		x	x	x	x	x
	(Wall, 2013a)			х		x			x			x	x		x	x		x	x		x		x	x	x		x
	(Wall, 2013b)			x		x			x			x	x		x	x		x	x		x		x	x	x		x
	(Warmeli nk et al., 2015)	x	x	x	x	x			x			x													x		
	(Wilson et al. <i>,</i> 2004)	x	x	x		x			x			x	x		x	x	x		x								
	(Wilson, 2003)			x		x		x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	(Åmo, 2006)	x			x							x			x			x									
Ð	In sum	13	6	22	18	18	4	2	27	6	7	36	23	14	23	16	11	15	12	10	6	∞	18	16	19	12	16

*Specialised in clinical nursing: the nurses described having continuing clinical education (e.g. as a clinical nurse specialist, a nurse practitioner or a midwife) or having extensive experience in clinical nursing (e.g. more than one decade).

Table 2: Comparing Employment Status

													. .							
	Main	K	nowledg	ge			Activ	lities					Barriers				IVI	otivatio	ns	
	theme																			
	S		1				r							1			1		r	
tic.	Sub-themes	Specialised in clinical nursing*	Entrepreneurship	Management	Clinical nursing/consultancy	Opportunity recognition/creation	Networking/collaboration	Management/administration	Marketing/sales/funding	Research/education/training	Hierarchy/power/tradition	Finance/law/reimbursement	Lack of knowledge and skills	Personal conflicts/negativity	Time management	Improve the quality of care	Maintain professional identity	Improve work situation	Achieve financial gain	Achieve self-realisation
	Business owners	82%	23%	14%	%96	68%	36%	68%	59%	32%	41%	50%	36%	36%	27%	64%	50%	59%	50%	55%
	Employee	%29	22%	28%	100%	61%	%6E	%††	17%	28%	%6E	11%	17%	11%	11%	28%	28%	%6E	11%	22%
	Difference	15%	1%	14%	4%	7%	3%	24%	42%	4%	2%	39%	19%	25%	16%	36%	22%	20%	39%	33%

Accelerate Level

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