Nursing Competencies Needed for Electronic Advance Care Planning in Community

Cathy Smith
Nurse Research Fellow
Rural Clinical School
University of Tasmania
Burnie, Australia

Isabelle Ellis
Professor of Rural & Regional Practice Development
School of Nursing & Midwifery
University of Tasmania
Burnie, Australia

Linda Jaffray
Research Fellow
Rural Clinical School
University of Tasmania
Burnie, Australia

Abstract—Advance care planning implementation occurs across the world using different legislative frameworks, different language to describe both the process and the outcome, and different models to develop these plans. Many countries are in the process of developing personally controlled electronic health records. Including advance care plans as part of this record is proposed in Australia. The Electronic Advance Care Plan (eACP) in Community project aimed to develop a model that will engage community dwelling older adults with chronic life-limiting illnesses in the process of advance care planning that is person-centred, evidence-based and has a focus of dignity of life. A systematic review was conducted to identify models of advance care planning information sharing and to examine the nurses’ role. A realist review comprising a metasynthesis of 8 qualitative studies and 9 quantitative studies was conducted. Nursing competencies need to be developed to include the medico-legal framework around advance care plan development, as well as information technology competencies and communication competencies so that nurses around the world are better informed for end-of-life care planning and practice in a digital world.

Keywords—nursing competencies, nursing model of advance care planning, elderly, community dwelling, chronic illness, electronic medical record

INTRODUCTION

Improving health and end-of-life care for older people is an international priority. Many countries are projecting large increases in their aged populations. The International Council of Nurses (2006) noted that: 'during the next 45 years, the number of persons in the world aged 60 years or older is expected to almost triple' [1]. Advance care plans are thought to be one way of improving end-of-life care.

Models of advance care planning for older adults living in the community vary around the world. Developed countries like Australia, the United Kingdom, the United States, Canada and Japan have legislative frameworks around end-of-life decision-making which enable a person’s wishes to be enacted if appropriate [2-6]. In Australia these frameworks are not consistent across all jurisdictions. Registration of the relevant documents is not mandatory or consistent between jurisdictions [2]. Advance care plan documents can be as simple as ensuring that a legal power of attorney, or enduring guardian has been appointed in the event of mental incapacity to extensive end-of-life care plans that incorporate a person’s values and beliefs as well as their health and social care choices [4, 7]. Research has shown that knowing a person’s end-of-life wishes is not a simple process for most health agencies. Recommendations have been repeatedly made to incorporate this information in the electronic medical record to make it more readily accessible at the point of care [8, 9]. Although there has been documented societal and government support for advance care planning, the uptake in Australia has been limited [2].

The Australian Government has invested $467 million dollars in the Personally Controlled Electronic Health Record (PCEHR) project to better coordinate care and share information. This record has the capacity to hold details of advance care plan documents as well as other ongoing care information. To guide the implementation of the PCEHR, a number of lead projects have been undertaken [10].

The aim of this study was to identify the roles of nurses and/or nursing in the evidence-based models for electronic advance care planning for community dwelling older adults.

METHODS

A systematic review of the published and grey literature was conducted between January and July 2012. An electronic database PICO search using MESH terms and key word searches of the following 8 databases was conducted: Cochrane, PubMed, Embase, ProQuest, CINAHL., Psychinfo, Google & Google Scholar.

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Inclusion criteria were all studies in English that described model development or model testing for advance care planning for community dwelling older adults and electronic record sharing. Exclusion criteria included narrative reviews, models of advance care planning in residential aged care facilities or acute care facilities and papers that proposed models but did not test them. A scoping search was conducted to establish the appropriateness of the search terms and to identify index papers. The scoping search revealed that there were no articles that included electronic health records in the title and the search was broadened to incorporate all of the studies that reported models of advance care planning and community dwelling older adults. These search terms, see figure 1 were combined to identify the relevant papers. The role of nurses and nursing was distilled from the models identified. Grey literature including policy documents, national frameworks and relevant references from included papers reference lists were also included.

RESULTS

One hundred and twenty five titles were identified that met the inclusion criteria. Duplicates were removed. Seventy one abstracts were retrieved and reviewed identifying 18 studies that met the inclusion criteria for full text analysis. Of the 18 full text articles, 8 qualitative studies and 9 quantitative studies were reviewed. One study was excluded as it was an opinion piece. Of those studies only two studies included nurses or nursing in the model. One study was conducted in Japan which used nurses to deliver the intervention and the other study was conducted in the United States which used trained nurse facilitators [11]. The role of nurses was promoted in a range of national and international position papers and policy documents.

The study by Matsui (2010) was a non-randomized quasi-experimental study of 112 participants allocated into 2 groups to understand participant’s acceptance of advance care planning. Intervention group members were recruited from 2 senior citizen centres; controls were recruited from 4 other centres in the same region. All participants were aged >65years. The intervention group received a 90 minute educational program to discuss life sustaining treatments at their end-of-life, the control group received an information hand out. The intervention consisted of viewing a video, listening to a lecture from a nurse with the information hand out and participating in a 10 member group discussion run by the nurse. Participants were surveyed pre and post intervention with a one month follow up to identify changes in attitudes towards life sustaining treatments and advance care planning. Wilcoxon rank sum was used to analyse changes in attitudes towards advance care planning and McNemar’s test was used to examine the effect of the program on each group. The findings show that there was a significant positive change in attitude between pre and follow up surveys towards advance care planning in the intervention group and a significant increase in the number of intervention group members who had end-of-life care discussions with physicians and/or family members at follow up 20.4% to 38.9% (p=0.031). There was a greater acceptance of the program in the intervention group compared with the control. The author noted a limitation of the study being the absence of distributing advance directive documents to the participants [12].

The pilot study by Schwarz et al (2002) was a randomized control trial of 61 participants, recruited from 2 geriatrician practices and an independent living centre and randomized using blinded envelopes. The aim was to conduct a prospective study of one element, the facilitated interview, of the successful community wide program ‘Respecting Choices’ on the effectiveness of improving participants’ knowledge of legal and practical aspects of advance care planning, and agreement between health care providers and participants on participants’ wishes for end-of-life care. The intervention consisted of a structured interview and information giving session lasting approximately 1 hour with a nurse facilitator, which was documented using a checklist and included the completion of an advance care plan. The control group received standard care and ‘Health Care Proxy’ form to take home and complete. Participants were surveyed at baseline and at 2 months post intervention. Health care agents were surveyed only at 2 months post intervention. Participants completed a 9 item knowledge questionnaire adapted from the original study with an α reliability co-efficient of 0.78. Participant treatment preferences were assessed using a validated tool, the modified Emanuel and Emanuel Medical Directive. Agreement between the participant and their health care agent was measured using an adaption of the Medical Directive questionnaire administered to the health care agent. Paired t tests were used to measure change over time in participants’ and health care agents’ knowledge about advance care planning. Agreement between the participant regarding
their wishes and the health care agent’s understanding of those wishes was calculated using t tests. Results of t tests were converted to a measure of effect size (ES) using Cohen’s formula. The findings show a small increase in knowledge in the intervention group compared to the control (ES=0.22). There was a medium increase in agreement between the groups. The intervention group had a 76% overall agreement and the control group had a 55% overall agreement, (ES=0.43) [13].

The International Council of Nurses (ICN) (2012) Position Statement on nurses role in providing care to dying patients and their families, acknowledges there is still debate about the role of nurses in advance care planning. They recommend that nurses must know about legislation as it relates to end-of-life care in their own countries [14].

Advance care planning is being progressed throughout the world, with many countries having legislation and frameworks, such as the USA, Canada, UK & Australia [2-6]. The legislation is complicated by the differing terms and the specific legal nature of the definitions. There were differences between countries & even within countries (states/counties). For example, the USA has legislation titled the Patient Self Determination Act (1991) and terms used are advance directives, living wills, durable power of attorney for health care [5, 15]. The United Kingdom’s legislation is called the Mental Capacity Act (2005) and use terms such as advance decisions and lasting power of attorney [4, 6, 7]. Whilst Canada and Australia do not have national legislation, both countries have national frameworks in relation to advance care planning. In Canada terms used are advance directives and substitute decision makers [3]. Within Australia, terms even differ from state to state with terms used such as: advance care directives; advance health directive; anticipatory directives, enduring power of attorney, and enduring power of guardianship [2]. In addition there are differing terms used to describe both the process and the documents such as advance care directives and advance care plans. Advance care plans are commonly completed by lawyers with medical staff often noted as the key health professional in the discussion [2].

Globally, the uptake of completion of written advance care directives/decisions is low. The Canadian National Framework (2011, p.7) reported that ‘a recent review of the literature found that most of the general public (60 – 90 %) is supportive of advance care planning, but only 10 to 20 % of the public in the US, Canada and Australia have completed an advance care plan document of any kind’ [3].

The National Framework documents from Australia, Canada and the United Kingdom (UK), promote a clear role for nurses in advance care planning [2-4, 7]. For example, the Canadian National Framework (2012, p. 17) discuss that ‘nurses act as educators and advocates for their patients’ that ‘patients are often comfortable discussing advance care planning with nurses’ and that ‘nursing research has found that their presence is an important factor in helping patients to develop advance directives’ [3].

**DISCUSSION**

Many countries are projecting large increases in their aged population. Therefore the capacity to provide care for this ageing population is also on many countries health care agendas. Advance care planning discussions are required across the continuum of care between primary health care, acute care and residential aged care. Research by Schiebel, et al (2012) highlights the need for up-to-date information and timeliness of communication regarding advance care plans. This study found that 11 % of patients with initial Do Not Resuscitate (DNR) orders had them changed to full resuscitation during their hospital stay. Their research demonstrated that ‘these patients were at particularly high risk for being incorrectly designated DNR’ thereby having ‘resuscitation efforts accidently withheld’ (p. 7). The use of an easily recognised and standard location in the electronic record for the most up to date order was shown to reduce the incidence of incorrect or outdated orders being implemented [9].

Current evidence suggest that there is a gap in people’s preparation for end-of-life, with people more prepared to engage with issues of funeral arrangements and preparation of wills, rather than pre-death issue such as advance care planning [16-18]. Strategies to address social norms and reluctance for discussing end-of-life issues are vital in any initiative to promote effective advance care planning. Research indicates that strategies that combine more than one element are more successful in engaging people in advance care planning [12, 13, 16] and that multiple professionals should be involved, not just doctors. Nursing and allied health professionals have a key role in supporting people with advance care planning across the care continuum and at different stages in their life journey [3, 7, 13, 19, 20].

From the empirical studies reviewed, the role of nurses in advance care planning is portrayed as being that of the provider of education around advance care planning prior to the patient having a discussion with a medical practitioner and the collection and documentation of advance care plans and information for the medical record. In the two studies that investigated the effectiveness of nurse facilitators, both reported a significant effect on advance care plan discussions with family members and physicians and uptake.

A range of health professionals are engaged in developing competencies for end-of-life care [3, 7, 21, 22]. The UK and Canada have recognised the unique position of nurses as patient advocates being in constant close relationships with patients and their families at the end of life. They have developed core common competencies for advance care planning for nurses as part of the health and social care staff.
group [3, 21]. The United Kingdom’s National Health Service (NHS) is leading the way with published competencies for advance care planning. The NHS (2008, p.10) state that ‘All health and social care staff should be open to any discussion which may be instigated by an individual and know how to respond’ [7]. The 5 dimensions that comprise these end of life core competences (2012, p. 4) include communication skills, assessment and care planning, symptom management, comfort and well-being; and advance care planning [21]. Knowledge and skills outlined in the advance care planning core competencies (2012, p.11) include knowledge of the legal framework of advance care planning and mental capacity; assessment skills in the timing of conversations; sensitiveness around the conversations of people’s preferred wishes and care, and communication skills around conversations with patient’s families and health workers [21].

The Canadian National Framework (2012, p.22) highlight that ‘the ability to facilitate’ advance care planning conversations ‘needs to become part of the core skill set for all clinicians’ and have developed eight core competencies around ‘the ability to define ACP and understand the importance of ACP; an understanding of consent; capacity and the legal framework for ACP; facilitation skills for ACP conversations; facilitating the creation and/or documentation of an advance care plan’; managing conflicts that may arise; familiarisation with relevant processes in their work environments in regard to flow of ACP information along with serving as a resource for ACP’ [3].

Nurses and allied health staff are key clinicians in the primary care setting, especially in regard to elderly people with life-limiting chronic illness. Nurses are in the prime position for these conversations around dignity of life and providing support and advice for decisions for future care as function declines. The Australian National Framework for Advanced Care Directives (2011, p.30) states that an advance directive ‘should be written by the person to whom it relates’. The Framework also proposed that nurses have an important role in providing information during care and identifying when health circumstances change warranting a review of the advance care plan [2].

Whilst a range of health professionals are engaged in developing competencies for end-of-life care [3, 7, 21, 22], these competencies do not currently address the changing health information landscape. There is a disconnect between the clinical competence to manage the communication and the health informatics competence to upload and manage electronic ACP information at the point of care. It is widely recognized that informatics competency is an essential requirement for nurse and other health care professionals to fulfill their clinical roles [23-25].

There needs to be a generalist model that depicts nurses’ roles in advance care planning across the globe. Agreement globally on the competencies required by a nurse for effective advance care planning is also recommended. Undergraduate nursing curricula should incorporate advance care planning as part of nursing role and competencies. Advance care planning and ongoing assessment of competence should also be included in professional development activities for registered nurses to ensure the current workforce is up-skilled to manage this new role. Organisations and nursing services need to have policies and procedures regarding advance care planning to guide practice. Time must be allocated for nurses to have these important and ongoing conversations with patients, just as their medical colleagues acknowledge the importance of time and appropriate remuneration [22].

The effectiveness of electronic communication of these advance care plans needs also to be monitored. There are validated tools to monitor effectiveness of advance care planning. The UK’s End of Life Care Strategy document discusses the After Death Analysis Audit tool and the National Care of the Dying which uses the VOICES questionnaire to survey bereaved relatives highlighting the need for ‘measurement of structure, process and outcomes’ [4]. The Canadian National Framework also proposes evaluation of effectiveness, including auditing patient care preferences and care received [3].

CONCLUSION

Nurses have a key role in primary health care, acute care and residential aged care supporting and advocating for their clients. Yet, the empirical research on models of advance care plan development, are described mostly from a medical (physician) perspective rather than a nursing perspective. Studies have shown that nurse’s knowledge of advance care planning is lacking [23, 26] and nurses use of informatics is also lacking. Electronic advance care plans are a reality in Australia now and nurses need to be prepared to ensure the best outcomes for their patients at the end-of-life.

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REFERENCES

Feasibility of End-of-Life Care Pathways in Australian Residential Aged Care Facilities

I live for today: a qualitative study investigating older people’s attitudes to advance planning and satisfaction related to network education.


Cathy Smith (RN, RM, BN, MB, MACN), works as a Nurse Manager, providing strategic and project support to the Executive Director of Nursing of the Tasmanian Health Organisation - North West. She is also a Research Fellow at the University of Tasmania, Rural Clinical School. Her professional interests include: evidence-based practice and the implementation of innovations into practice, particularly Telehealth and ehealth.

Isabelle Ellis (RN, RM, MPH & TM, MBA, PhD) is the Professor of Nursing: Rural & Regional Practice Development, as a joint appointment between the University of Tasmania and the Department of Health & Human Services. Her research interests include: evidence-based practice and the implementation of innovations into practice.

Linda Jaffray (BSW) is a Specialist Palliative Care Social Worker, who worked in a rural community based palliative care service on the North West Coast of Tasmania. She now works as a Research Fellow for the University of Tasmania’s Rural Clinical School in Burnie, on research projects exploring access, continuity of care and navigating health care services.