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# Advanced practice nursing for enduring health needs management: A global perspective

Liisa Koskinen <sup>a,\*</sup>, Irma Mikkonen <sup>a,1</sup>, Iain Graham <sup>b,2</sup>, Linda D. Norman <sup>c,3</sup>, Jim Richardson <sup>d,4</sup>,
Eileen Savage <sup>e,5</sup>, Mavis Schorn <sup>f,6</sup>

- <sup>a</sup> Savonia University of Applied Sciences, PL 1028, 70111 Kuopio, Finland
- b Southern Cross University, School of Health and Human Sciences, Southern Cross University, PO Box 157, Lismore NSW 2480, Australia
  - <sup>c</sup> Vanderbilt University School of Nursing, Room 215 Godchaux Hall, 461 21st Avenue South, Nashville, TN 37240, United States
  - d HESAS, University of Glamorgan, Pontypridd, CF371DL, Wales, UK
  - e Catherine McAuley School of Nursing & Midwifery, Brookfield Health Sciences, University College Cork, Ireland
  - f Vanderbilt University School of Nursing, Room 348 Frist Hall, 461 21st Avenue South, Nashville, TN 37240, United States

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#### SUMMARY

Advanced practice nursing expertise has been acknowledged worldwide as one response to the challenges 24 arising from changes in society and health care. The roots of advanced practice nursing education are at the 25 University of Colorado where the first known programme started in 1965. In many countries advanced 26 practice nurses (APNs) have taken responsibility for routine patient care formerly carried out by physicians in 27 order to reduce their workload. However, more and more, APNs have taken responsibility for new service 28 areas and quality programmes not previously provided. Chronic disease management is one of these new 29 service areas because long-term diseases are increasingly challenging service systems globally. This article is 30 based on an international APN partnership. The aim of the article is to describe how the partnership will 31 design a 15 ECTS credit course on Enduring Health Need Management as a cross-cultural collaborative 32 endeavour. The adaptation of an inquiry based learning framework will be described drawing on four main 33 principles of the theory: authentic learning communities; student encouragement in analysing gradually 34 more complicated problems; networking in knowledge creation and; student engagement and activity. The 35 cross-cultural online course aims to increase APNs' intercultural competence as well as their global and international work orientation.

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#### Introduction

The pressure for cost-effectiveness in health care service provision combined with ever more complicated health needs of populations have challenged service systems worldwide. Therefore many countries are seeking ways to improve health care delivery by reviewing the roles of health professionals including the promotion of new and more advanced roles for registered nurses. The roots of advanced practice nursing were established in the USA during 1965, with the devel-

\* Corresponding author. Tel.: +358 44 785 6463; fax: +358 17 255 6422. E-mail addresses: liisa.koskinen@sayonia.fi (L. Koskinen).

Irma.mikkonen@savonia.fi (I. Mikkonen), iain.graham@scu.edu (I. Graham), linda.norman@vanderbilt.edu (L.D. Norman), jrichar3@glam.ac.uk (J. Richardson), e.savage@ucc.ie (E. Savage), mavis.schorn@vanderbilt.edu (M. Schorn).

- <sup>1</sup> Tel.: +358 44 785 6469; fax +358 17 255 6422.
- <sup>2</sup> Tel.: +1 447 257 273; fax: +1 2 6620 3880.
- <sup>3</sup> Tel.: +1 615 3223 804; fax: +1 615 3221 708.
- <sup>4</sup> Tel.: +44 1443 483123.
- <sup>5</sup> Tel.: +353 21 4901552.
- $^{6}$  Tel.: +1 615 343 5876; fax: +1 615 322 1708.

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opment of a nurse practitioner (NP) certificate program (Pearson, 51 1999). However, the term "advanced practice nursing" first did not 52 appear in the nursing literature until the 1980s (Ruel and Motyka, 53 2009).

The International Partnership for Advanced Practice Nursing 55 Education and Research (international APN partnership), as presented 56 in this article, was established in London in 2009 as an endeavour by 57 four universities, across three continents, to enhance the develop- 58 ment of a collaborative advanced practice nurse (APN) education 59 model. The partner universities in Europe, Australia, and the USA, had 60 earlier jointly been involved in various cross-cultural competency 61 developments and student exchange programmes since 1994. Thus 62 the partnership was built on trust and friendship among the faculty of 63 the partners. In two years, the partnership (Box 1) has expanded and 64 now covers seven universities that constitute an international and 65 multi-centre project team with a varied range of experiences in 66 setting up and developing advance practice nursing. The central goal 67 of the two-year project is to design a shared online course at master's 68 level, which will be offered as an integrative course within each 69 university's existing APN education programme. The online course is 70

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University	Country
Savonia University of Applied	Finland, Europe
Sciences	
North Karelia University of	Finland, Europe
Applied Sciences	
Glamorgan University	Wales, Europe
University College Cork	Ireland, Europe
Medical University of Varna	Bulgaria, Europe
Southern Cross University	New South
	Wales, Australia
Vanderbilt University	Tennessee, USA

Box 1. The international APN partnership.

titled "Enduring Health Needs Management". The aim of the crosscultural online course is to increase APNs' intercultural competences and global perspectives in local care provision, leadership and research.

The International Council of Nurses (ICN, 2010) has defined the NP/APN as follows:

"A Nurse Practitioner/Advanced Practice Nurse is a registered nurse who has acquired the expert knowledge base, complex decision-making skills and clinical competencies for expanded practice, the characteristics of which are shaped by the context and/or country in which s/he is credentialed to practice. A master degree is recommended for entry level."

APN has been used as an umbrella term signifying nurses practicing at a higher level than do traditional nurses (Sheer and Wong, 2008). The APN concept incorporates a number of advanced practice roles, such as nurse practitioner (NP), clinical nurse specialist (CNS), nurse anaesthetist (NA) and certified nurse-midwife (Cronenwett et al., 2011). While the overall goal is to bring APN education to master's level, not all countries have reached this goal (Sheer and Wong, 2008). In the USA, preparation for advanced nursing practice has been developed at doctoral level. The first practice-focused doctoral degree programme in nursing was established at Case Western Reserve University in 1979. Since then, Doctor in Nursing Practice (DNP or DrNP) programmes have emerged with the intent to improve health care systems through administrative leadership and advanced practice roles (Cronenwett et al., 2011). In this article, APN will be used as a generic term for nurses practicing at a higher level consistent with the ICN definition presented above.

It is widely agreed that advanced nursing practice is a unique blending of nursing (caring) and medicine (curing) (e.g. AANP, 1993a; Donato, 2009). In some countries such as the USA, the APN is a licensed, independent practitioner, who practices autonomously and, in collaboration with an interdisciplinary team to assess, diagnose, treat, and manage the patient's health problems and needs (AANP, 1993a).

Delamaire and Lafortune (2010) remind us that evidence shows 107 how using APNs can improve clients' access to services, reduce waiting 108 times and save health costs. APNs have been shown to deliver the same 109 quality of care as doctors for various health problems and routine 110 patient follow-ups, provided they have received education and 111 training (Mundinger et al., 2000). Wilson et al. (2002) state that 112 APNs can reduce cost and general practitioners workload without 113 compromising quality of care or patient satisfaction, although 114 physicians may perceive APNs as a threat to their role. High patient 115 satisfaction with APNs delivering health care services has also 116 been reported by Agosta (2009). Patient satisfaction is mainly due to 117 the fact that nurses spend more time with the patients and provide 118 information and counselling from a more holistic view (Delamaire and 119 Lafortune, 2010).

Advance practice nursing combines the roles of provider, mentor, 121 educator, researcher and administrator (Byrant-Lukosius et al., 2004). 122 However, many challenges exist with regard to the increasing numbers of APNs globally. These include proliferation of APN titles with a 124 confused scope of practice, differing educational requirements and 125 qualifications, fragmentation and variability in educational standards 126 as well as standardization of the educational programmes (Schober 127 and Affara, 2006). Fawcett et al. (2004) asks nurses and the public to 128 question the nature of advanced practice nursing when it chiefly 129 incorporates activities traditionally associated with medicine, and is 130 apparently not valued by physicians.

The aim of this article is to describe the work of the international 132 APN partnership while designing the Enduring Health Needs 133 Management Course and the application of the progressive inquiry 134 framework as the pedagogical approach in the development process. 135

#### Scope of Advanced Practice Nursing

In many countries, the development of the APN role has been a 137 reaction to the needs of our changing societies. The growing elderly 138 population, changing demography, lifestyle health issues, and 139 concerns about access, quality, and cost have fed this development 140 and evolution (Donato, 2009). In all countries around the globe, the 141 need for expanding the APN role is connected with political, demo- 142 graphic and societal health issues. The role of nursing as a whole is 143 being scrutinized in many fora, in terms of skill mix, shortage, and 144 career frameworks. The APN role is perceived to be important in the 145 battle against the increase in enduring and life style diseases and in 146 balancing the health and well-being inequalities seen between 147 different client groups (Sciamanna et al., 2006).

The partner countries are at different stages in implementing APN 149 roles, the USA being a pioneer with over 40 years of experience. The 150 USA recently developed a consensus model to clarify the roles of 151 APNs while also standardizing education, licensure and certification 152 (Stanley et al., 2009). Certified nurse-midwives are considered one 153 type of APN in the USA. Other countries educate midwives differently, 154 so they are commonly not considered an APN outside the USA 155 (Duffield et al., 2009).

The first APN programme was introduced in New South Wales in 157 Australia in 1990 under the work titles of clinical nurse specialist (CNS) 158 and clinical nurse consultant (CNC) (Appel et al., 1996). In Europe, the 159 development of the APN role has been slow. In 1991, the first NP 160 programme was introduced in the Royal College of Nurses in the United  $\,$  161 Kingdom (UK) (Sheer and Wong, 2008) thus catalyzing the develop- 162 ment in the UK. In Ireland, the first "advanced nurse practitioner" was 163 accredited in 1996, and a career pathway towards advanced nursing 164 practice was established following a Commission on Nursing in the late 165 1990s (National Council for the Professional Development of Nursing 166 and Midwifery, 2005). Many European universities have established 167 APN degree programmes at master's level. For example, the University 168 Medical Center Groningen in Netherlands, has the programme since 169 1997, (Donato, 2009), with specialities on managing chronic illness, 170

critical and intensive care, acute care, prevention and psychiatric care. The University of Basel in Switzerland has the programme since 2000, with speciality on managing chronic illness, (Sheer and Wong, 2008).

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Although the formal recognition of the APN is still in its infancy, Finland has much experience with advanced collaboration between doctors and nurses in primary care health centres (Delamaire and Lafortune, 2010) and master's level APN programmes have been established in the country since 2009. The Eastern European countries, including Bulgaria, are rapidly adopting new economic and political reforms that affect many sectors including health care. Bulgaria and many other Eastern European countries still have obstacles and severe financial problems in organising health care services and education (Wright et al., 2005).

The APN's professional role is to diagnose and manage acute episodic and chronic illness, and to promote health and prevent illness by counselling individuals, families and groups (AANP, 1993b). By promoting evidence-based care and patient adherence to health promotion recommendations, APNs are champions of quality improvement (Kleinpell, 2007). According to their practice speciality, APNs work in the acute care, long term care, primary care (Fawcett et al., 2004), community settings, and home health (Schober, 2007).

Delamaire and Lafortune (2010) distinguish between two broad types of activities of APNs: substitution of tasks and supplementation of tasks. The first includes certain tasks formerly carried out by physicians that are transferred to APNs, such as diagnosis and treatment of commonly occurring health problems. The second includes tasks where APNs take responsibility for new services not previously provided. They may act as part of a new chronic disease management programme or promote higher quality of care in community and hospital settings.

The international APN partnership will work by clarifying the scope of advanced practice within the context of respective countries and will describe the country specific educational needs. The partnership believes, however, that the nature of nursing is dynamic and forever changing. The advanced practice roles are connected with the historical and societal characteristics of each country. The partners agree with Brown (1998) who states that in spite of versatile roles, advanced practice nursing has recurring characteristics that reflect core values of the profession. These include viewing health and illness holistically and believing that health and patient strengths should be addressed to the same extent as illness and problems. Moreover, APNs clearly employ a nursing orientation, even when their role involves management of physiological conditions traditionally managed by physicians.

The partnership is concerned that APNs carry out functions from a health oriented nursing world view. By developing the Enduring Health Needs Management Course, it is hoped to take nursing into a future where patients with chronic ailments will be empowered decision makers of their own health and care. The APN will be the enabler, advocate, and constructor of a social and physical environment; the one who will provide cure and care in collaboration with the patient and interdisciplinary health care team.

#### **Progressive Inquiry in APN Education**

The work of the international APN partnership is based on the progressive inquiry framework. Progressive inquiry or inquiry based learning can be defined as a learning framework characterised by the following features: (1) authentic learning communities, (2) student encouragement in analysing gradually more complicated problems, (3) networking in knowledge creation and (4) student engagement and activity (Hakkarainen et al., 2004).

As previously mentioned, society and health care is undergoing rapid and profound changes globally. According to Hakkarainen and his colleagues (2004), a networked society is emerging and therefore new skills and competences will be demanded of health care professionals. Work in health care organizations is increasingly becoming managed by

collaborative multidisciplinary teams supported by technology. The 235 work is increasingly characterized by networked activities and 236 distributed expertise. Thus expertise is shared within and across 237 teams and networks (Hakkarainen et al., 2004).

Educational organizations are challenged to find new pedagogical 239 models and practices in order to support the sharing and creation 240 of knowledge, and to cope with the challenges arising from the 241 multicultural world. It is believed that that the international community 242 is a nurturing context for new networked knowledge creation and the 243 development of a renewed APN role.

#### **Enduring Health Needs Management Course**

The Enduring Health Needs Management Course (EHNM) aims to 246 increase advanced practice nurses' intercultural competences and 247 global perspectives on local care provision, leadership and research. 248 The goal is to share patient care practices from other countries that 249 can be incorporated into nursing care delivery in the home country. 250

The planning work started in 2009 and has taken place through 251 face-to-face annual meetings and email. Each university has allocated 252 resources for one lead person who will work on the project and will 253 present at international conferences. An application for funding the 254 development of the course has been made to the Life Long Learning 255 Erasmus programme. The two-year Erasmus project comprising of a 256 15 ECTS credits course will be piloted in an international virtual 257 network simultaneously in each partner university. In the European 258 Credit Transfer and Accumulation System (ECTS) for higher education, 259 one credit corresponds to 27 h of work. The development work of the 260 partnership has taken place through the key principles of the 261 progressive inquiry framework as follows.

**Providing Authentic Learning Communities** 

A starting point of the progressive inquiry in EHNM course will be to 264 create a learning context where the investigated problems will be 265 reviewed in relation to central conceptual principles of both caring and 266 curing domains and to authentic, real-world problems arising from the 267 advanced practices of each participating country. Hakkarainen (2009) 268 emphasises that in progressive inquiry, the focus should be on 269 educational arrangements and models which exchange knowledge 270 between educational and professional communities. The authenticity of 271 the EHNM course will be realised within the processes whereby 272 students with different cultural backgrounds and experiences share 273 knowledge and expertise in a cross-cultural learning online community. 274 Thus the more advanced students will support the less advanced ones. 275 The unit will be conducted online and expert lecturers from the 276 participating universities will be utilised as learning resources.

Central to networking, is the task of defining the role of the 278 registered nurse and APN in contributing to models of best practice 279 designed to meet international healthcare needs. The course will 280 explore the relationship between chronic disease management, 281 health promotion, health care systems and policy frameworks in 282 different countries. It will explain how evidence-based practice and 283 health care delivery influences clinical decision making. The impact of 284 socio-political, cultural, and historical determinants on health 285 intervention in disadvantaged groups will be explored.

Student Encouragement in Analyzing Gradually More Complicated Problems

The inquiry based knowledge processing includes four stages: 289 setting up questions, generating working theories, searching new 290 information, and engagement in deepening inquiry (Lakkala, 2010). 291 The first stage, setting up questions, guides the learning and inquiry 292 process. It is important that the questions arise from students' own 293 needs to understand the problem and content. In addition, it is vital to 294

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engage students in a process of question generation. An essential aspect of inquiry is generating working theories. Students will form their own hypotheses, theories or interpretations for the phenomena being investigated. In order to develop the inquiry, it is necessary that students obtain new information and knowledge. Students will be encouraged to explore diverse information sources to find answers to their questions. The final stage of deepening inquiry is critical for student progress. It is this stage when students will focus on improving their theory by developing more specific questions and searching for new information.

The objectives of the EHNM course emphasise that students will attain global APN competences. To reach these objectives, the students engaged in our network will be encouraged to inquire about chronic disease patterns across different populations, critique international health care systems and policy frameworks, explore health care provision and design in the context of various cultures, as well as explain the independent and interdisciplinary role of APNs in an international context. The inquiry process will be carried out in cross cultural online student groups.

### Networking support in knowledge creation

According to Lakkala (2010), learning is participating in and growing up to a social community as well as developing one's identity. Networked learning communities enable access into various kinds of authentic expert knowledge, as well as a way to build connections between educational institutions and varied expert cultures and communities. When students work with their chosen problems, the collaborative group will seek to assess strengths and weaknesses of different explanations and identify contradictory explanations, gaps of knowledge, and limitations of intuitive explanations (Lakkala, 2010).

The EHNM network includes seven expert cultures and educational institutions (Box 1). Various kinds of authentic expert knowledge will be made available for the students participating in this project. The students themselves will be practising nurses and will have various professional backgrounds and practice environments. Societal structures, health service delivery frameworks, and demographic facts, as well as climate and geographic realities, vary in each of the participating countries thus providing a fruitful learning network for the APN students of this project.

Student assessment requirements of the unit will use a variety of environments and expertise. The assessment tasks will include participation in online discussion for a and two assignments focusing on enduring health needs management: (i) a critical comparison of health care systems between the student's country and another country; and (ii) designing an ideal health service delivery model.

### Promoting student engagement and activity

According to Lakkala (2010), most students do not spontaneously take responsibility for advancing inquiry among other students or among a whole community about topics of mutual interest. Thus, it is important to define explicitly the common goals of progress for both individual students and groups. Lakkala suggests that students should be guided to jointly make a summary of all inquiry results.

Moreover, a challenge is how to encourage students to share the entire process and its progression (including original ideas, drafts and intermediate knowledge products) for commenting and coconstruction through the online learning environment. To promote students to share the process, it is important to agree on some explicit, compulsory midway learning activities for presenting the intermediate outcomes among peers and groups (e.g. report drafts or written reviews of the current stage of the process). Such a process will support the development of students' metacognitive skills (Lakkala, 2010).

Metacognitive skills in this project can be defined as APN students, 356 abilities to integrate their own work into the wider societal and global 357 contexts as well as to base their own work on evidence. This can be 358 reached only if students are active in sharing experiences and engaged 359 in cross-cultural reflection.

**Discussion** 361

The health service provision worldwide is challenged by looking 362 for new types of professional expertise and changes in the distribution 363 of work. The international APN partnership (Box 1) was established in 364 order to develop a collaborative APN education model.

The partner countries represent different histories and health care systems as well as variations in nursing education and roles. As the project is in its early stages, there are not yet systematic data about the detailed expectations of advanced practice nursing roles or scope of practice within the different health systems among the partnership. 370 The key areas of similarity and difference will be described and as the foundation of the development work. During the two-year project a shared Enduring Health Needs Management Course will be planned and piloted online in the partner universities. By adopting both the progressive inquiry framework and health related nursing paradigm, the partnership is hoping to impact on the way the APN will practice and learn in the participating countries.

According to Koskinen and Jokinen (2007), gaining intercultural 378 competence is a learning process where the learners must critically 379 reflect on their earlier cultural and personal ideologies, seek new 380 knowledge, and be in dialogue with individuals of a different culture. 381 They believe that if educators want to prepare nurses to interact as 382 members of a multicultural health service in an intercultural 383 competent way, it is important to integrate intercultural experiences 384 as a part of nurse education programmes. The partners of the EHNM 385 course believe that by adapting pedagogical principles of inquiry 386 based learning (Hakkarainen et al., 2004; Lakkala, 2010), this goal will 387 be reached and both the students and faculty of the project will gain 388 intercultural competence.

According to WHO, "Health promotion is the process of enabling 390 people to increase control over, and to improve, their health....Health is, 391 therefore, seen as a resource for everyday life ... health promotion is not 392 just the responsibility of the health sector, but goes beyond healthy life-393 styles to well-being" (The Ottawa Charter for health promotion, 1986 394 p. 1). The general public is not lacking the knowledge for healthy living 395 but it is poorly motivated and supported with regard to maintaining and 396 promoting personal health (Scholz et al., 2008). Therefore, the APN 397 needs to be the practitioner with health orientation. Within the new 398 agenda for health and health policy, the APNs scope of practice will be 399 the provision of patient and family focused care and support for citizens' 400 self management capacity regarding enduring health needs in relation 401 to chronic diseases and illnesses.

Nursing is directed by the patient's articulation and expression of 403 need. This need extends beyond the event of illness or injury but 404 rather encompasses the need to promote health and well being. The 405 patient, particularly one with enduring health needs, is informed and 406 active, and is the one who gives the direction for the care or cure plan. 407 The APN responds in such a manner as to create the therapeutic 408 environment that patients require for their sense of coherence. In the 409 design of the course, the partnership views it as more than just 410 equipping the nurse with clinical skills. Rather, this course is central to 411 creating leaders and reformers of nursing who can and will enhance 412 the role of the patient in the provision of care.

Conclusions 414

The international APN partnership is a multi-centre project team  $\,415$  with different histories and experiences in developing advance  $\,416$  practice nursing and education. The partnership believes that through  $\,417$ 

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the development of the online Enduring Health Needs Management 418 Course, a new type of APN role will be developed. Most likely, the 419 APNs participating in this project will gain intercultural competence 420 421 in as well as global perspectives on care provision, leadership,

research, and improved skills for international networking.

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