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«Accelerating Master and PhD level nursing education development in the higher education system in Kazakhstan -  
AccelEd»

KA2 – Cooperation for innovation and the exchange of good practices –  
Capacity Building in the field of Higher Education  
STRUCTURAL PROJECT

**Nursing science and its development and importance in Kazakhstan**

# Nursing science and its development and importance in Kazakhstan

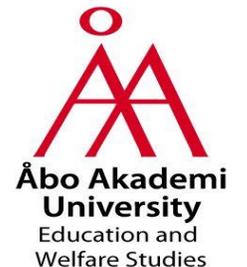
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# Content of the presentation

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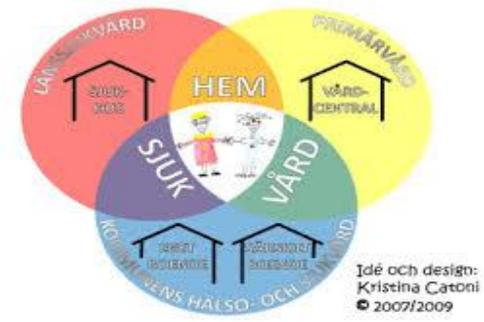
- 'What is nursing science?
- The definition of nursing in 2022
- A sustainable development of nursing science
- Outcomes in nursing research



# WHY IS NURSING SCIENCE IMPORTANT?

In NURSING/CARING SCIENCE we are developing knowledge about and for a complex reality

The complex care reality





# The meaning of a discipline versus a profession

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## DISCIPLINE

'A discipline is specific to academia and refers to a branch of education, a department of learning, or a **domain of knowledge**'. (Alligood 2018, p. 6)

## PROFESSION

'A profession refers to a specialized field of practice, **founded on the theoretical structure of the science** or knowledge of that discipline and accompanying practice abilities'. (Alligood 2018, p. 6)

# Describing nursing knowledge

- Fawcett and DeSanto-Madeya (2013) identified five components that can be used to describe nursing knowledge:

- Metaparadigm
- Philosophies
- Conceptual models
- Theories
- Empirical indicators

According to Fawcett (1984), the central concepts and themes, i.e., human beings, health, nursing, environment, are identified and formalized as **the metaparadigm of nursing.**

**'Paradigm is defined as those aspects of a discipline that are shared by its scientific community' (Kuhn 1977, p. 27)**

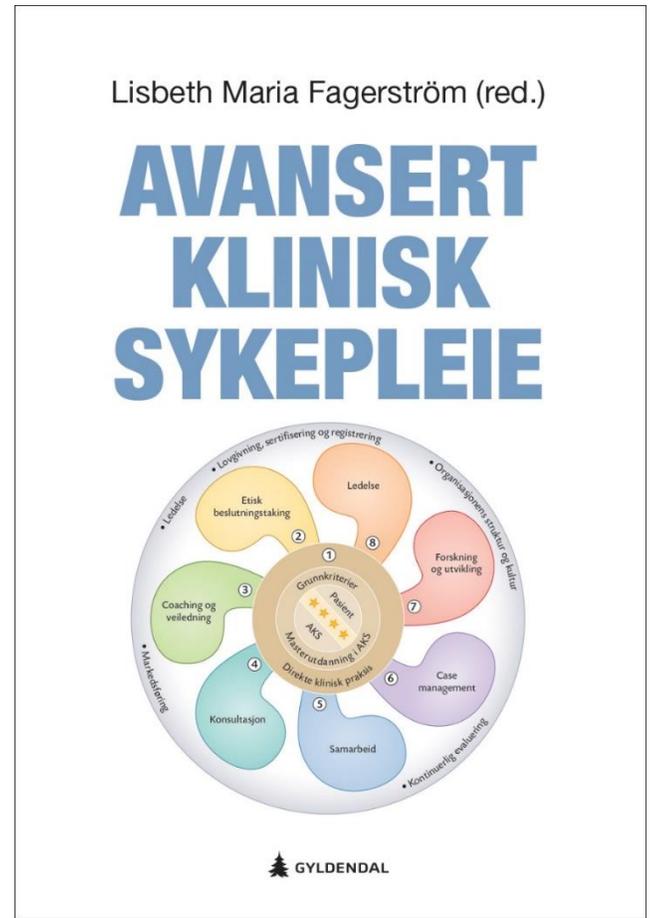
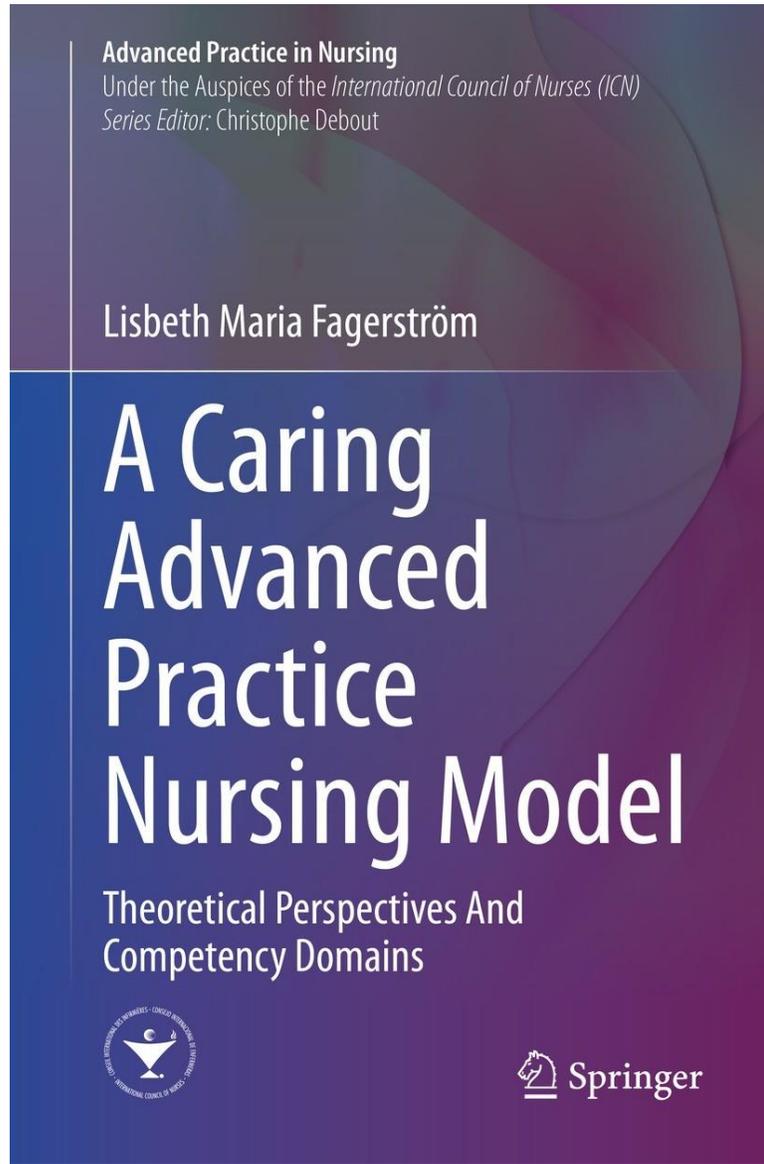
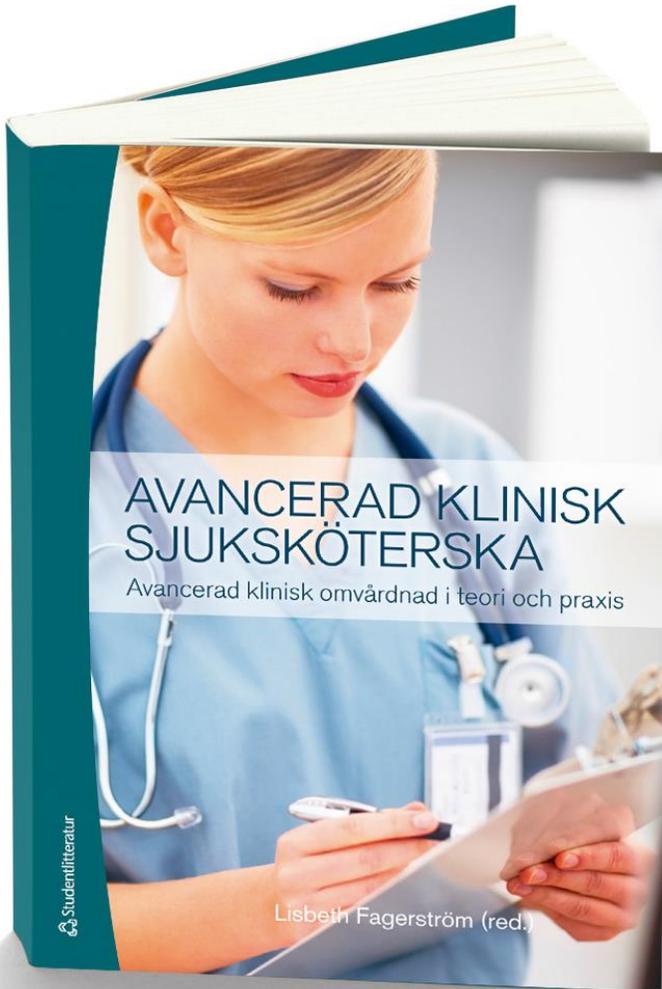
# Paradigm versus philosophy

A paradigm can be described as a worldview which serves as a philosophical underpinning for explaining any phenomena of interest to a discipline.

**Philosophy.** The function of a philosophy is to communicate what the members of a discipline believe to be true, what they believe about the development of knowledge and what they value in their practice (Fawcett and DeSanto-Madeya 2013)

Through nursing philosophies, answers to the questions “What is nursing/caring?” and “Why is nursing/caring important?” are sought and ontological, epistemological and ethical claims are articulated.

Nursing philosophies are also used to attempt to express and describe the meaning of nursing/caring and nursing/care phenomena (cf. Alligood 2010).





ICN's definition of advanced practice nursing (2020, p 8)

**VISION!!!**

An **Advanced Practice Nurse (APN)** is a **generalist or specialised nurse** who has acquired, through additional graduate education (minimum of a master's degree), **the expert knowledge base, complex decision-making skills and clinical competencies for Advanced Nursing Practice**, the characteristics of which are shaped by the context in which they are credentialed to practice (adapted from ICN, 2008). **The two most commonly identified APN roles are Clinical Nurse Specialists and Nurse Practitioners.**



# The core of the **Caring Advanced Practice Nursing Model** is

## **• Patient-nurse relationship**

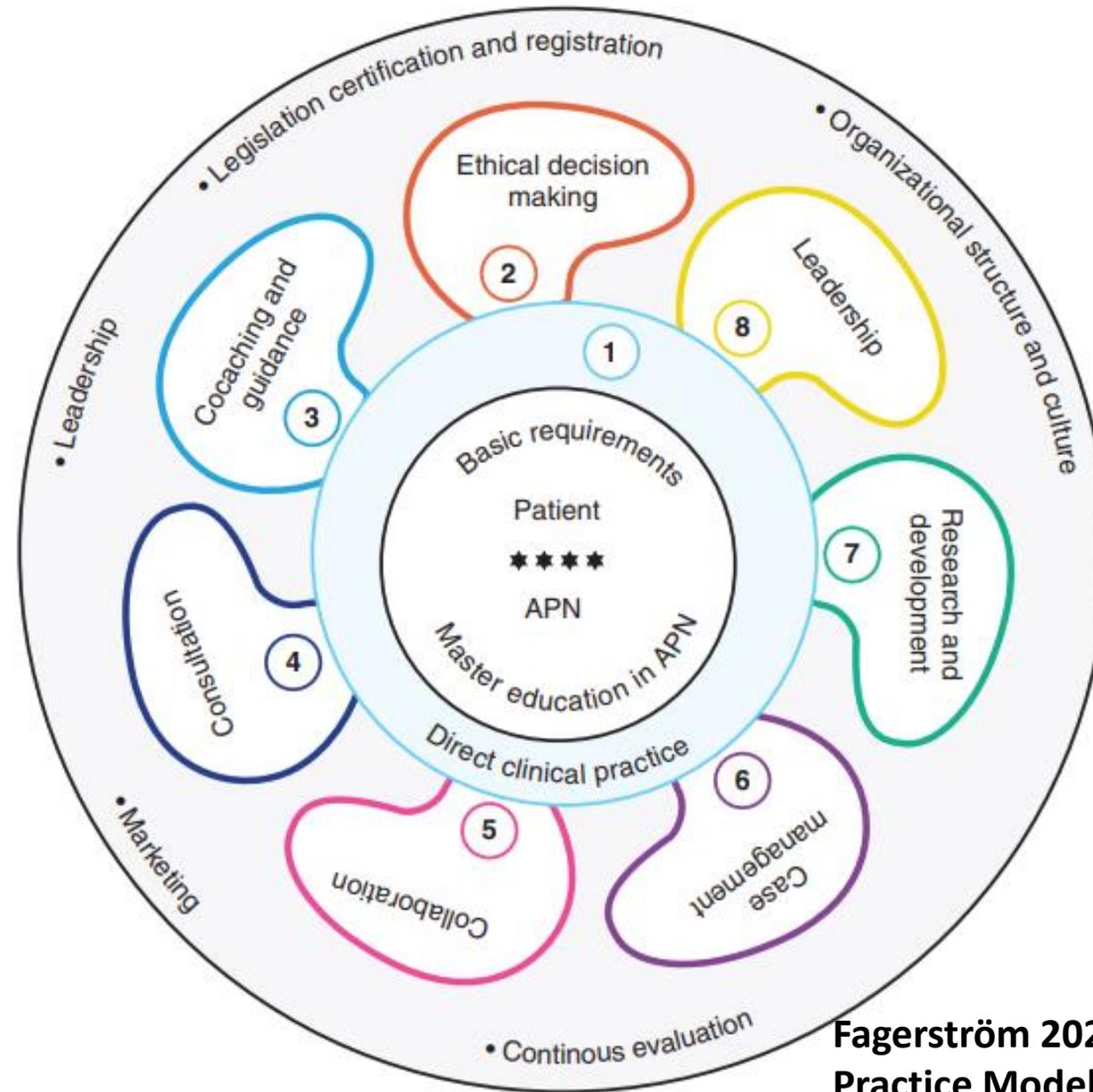
- **Four stars/theoretical perspectives:**

## **Holistic view of the patient**

## **Health**

**Caring** as the core of nursing

## **Ethos**



Fagerström 2021. The Caring Advanced Practice Model. Springer Publications.



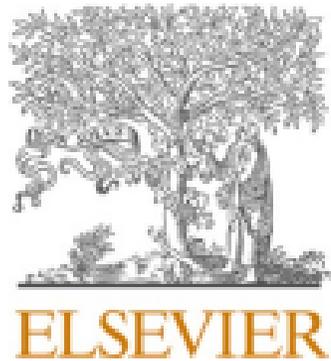
## CORE COMPETENCY DOMAINS OF THE CARING ADVANCED PRACTICE NURSING MODEL

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1. Direct clinical practice
2. Ethical decisionmaking
3. Coaching and guidance
4. Consultation
5. Cooperation
6. Case management
7. Research and development
8. Leadership

CENTRAL COMPETENCY DOMAINS  
FOR NURSES ON GENERALIST,  
SPECIALIST AND ADVANCED LEVEL.

NURSES' CLINICAL COMPETENCE – A  
CRUCIAL RESEARCH AREA FOR  
NURSING SCIENCE.



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## International Journal of Nursing Studies Advances

journal homepage: [www.sciencedirect.com/journal/international-journal-of-nursing-studies-advances](https://www.sciencedirect.com/journal/international-journal-of-nursing-studies-advances)



# The effectiveness of the role of advanced nurse practitioners compared to physician-led or usual care: A systematic review

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# RESULTS

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'Overall, **13 RCTs were eligible for this review**, with almost all trials reporting that care from **advanced nurse practitioners led to positive effects on patient care and service outcomes, including symptom severity** (Chan et al., 2009; van Zuilen et al., 2011; Mundinger et al., 2000; Williams et al., 2005; Ndosi et al., 2014; Ryden et al., 2000), **physical function** (Krichbaum, 2007), **satisfaction** (Stables et al., 2004; Venning et al., 2000; Kinnersley et al., 2000), **waiting times** (Stables et al., 2004), **and costs** (Chan et al., 2009; Kamps et al., 2003; Ndosi et al., 2014).'

# What are the main outcomes of nursing research?

Nursing research is a **vital component of the healthcare field, contributing to the development of evidence-based practice and the improvement of patient care.** The main outcomes of nursing research can include:

- 1.Enhanced patient outcomes:** Nursing research often leads to the identification of best practices and interventions that improve patient outcomes, such as **increased recovery rates, decreased mortality, and improved quality of life for patients with various health conditions.**
- 2.Improved healthcare policies and procedures:** **Nursing research can influence healthcare policies, leading to the development of more effective and efficient healthcare systems.** This can include the implementation of new protocols, guidelines, and standards of care that are based on the latest evidence.
- 3.Advancements in nursing education:** Nursing research contributes to the advancement of nursing education by **providing new insights and evidence-based strategies** that can be incorporated into nursing curricula.

This helps in producing well-equipped and **competent nursing professionals who are better prepared to meet the evolving healthcare needs of diverse populations.**



## What are the main outcomes of nursing research?

- 4. Development of new interventions and treatments:** Nursing research often leads to the development of **innovative interventions, treatments, and technologies that can improve patient care and outcomes.** This can include the introduction of new medical devices, pharmaceuticals, and patient care approaches that are backed by scientific evidence.
- 5. Promotion of interdisciplinary collaboration:** Nursing research encourages interdisciplinary collaboration between healthcare professionals, researchers, and policymakers. **This collaboration fosters a holistic approach to patient care** and promotes the integration of diverse perspectives and expertise for the development of comprehensive healthcare solutions.
- 6. Contribution to the nursing knowledge base:** Nursing research expands the existing knowledge base in the field, adding to the body of evidence that informs nursing practice. This knowledge helps in addressing gaps in understanding and identifying areas for further research and exploration, thereby fostering continuous improvement in nursing care.

**Overall, the outcomes of nursing research contribute to the advancement of healthcare delivery, the promotion of evidence-based practice, and the improvement of patient outcomes and experiences.**



# A SUSTAINABLE DEVELOPMENT OF NURSING SCIENCE IN KAZAKSTAN – HOW?

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- Well educated teachers, supervisors and researchers in own nursing discipline
- A strategic nursing leadership in clinical field, education and research
- Cooperation between nursing leaders on all levels
- Cooperation between Kazakstan universities
- Support from national political level
- Funding for nursing research
- Mentoring programs for teachers, supervisors and leaders
- Further cooperation with international experts in nursing research

# International Council of Nurses NP/APN



**ICN**  
International  
Council of Nurses  
*The global voice of nursing*

13th Network Conference, Aberdeen, Scotland, UK

9-12 September 2024



## **ICN NP / APN** **Network Conference**



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