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Hanne Mainz

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Education

2017 PhD in Clinical Medicine. Faculty of Health Science, Aarhus University

2014 Pre-Doctoral visiting Scholar at University of Virginia, School of Nursing

2007 Catalyst for efficiency Improvement (LEAN education). HR Central Denmark Region.

2005 Master of Science (MSc) in Health Science (Cand. Scient san) Aarhus University

1985 Registered Nurse. School of Nursing, Aarhus Amtssygehus.

Employments

2022- Postdoc, Clinical Nursing Research Unit, Aalborg University Hospital, Aalborg University hospital

2022- Clinical Nurse Specialist, Senior Researcher, Research Center for Emergency Medicine, Aarhus University Hospital

2012- 2022 Head of National Orthopedic Nursing Science Centre in Denmark

2000- 2021 Clinical Nurse Specialist, Department of Orthopedic, Aarhus University Hospital

1993-2000 Registered Nurse, Department of Emergency, Aarhus University Hospital

1987-1993 Registered Nurse, Department of Orthopedic, Aarhus University Hospital

1986-1987 Registered Nurse, Department of Plastic Surgery, Aarhus University Hospital

1985-1986 Registered Nurse. Department of Orthopedic. Regional Hospital, Horsens

Teaching and supervision

2023- Supervisor. PhD. Aalborg University

2011- Supervisor. Master of Health Science, Aarhus University

2022- External lecture, Via University, Horsens

2017-2020 External lecturer Via University, Aarhus

2012-2013 External lecturer Via University, Aarhus

2009-2011 External lecturer, Department of Nursing Science, Aarhus University

2007-2008 External lecturer, Master of Public Health, Aarhus University

2007-2010 Internal lecture. Department of Nursing Science. Aarhus University

Boards and committees

2016- National Advisory Forum for Clinical Quality. The Danish Clinical Quality Program– National Clinical Registries (RKKP)

2021 Nordic Missed Nursing Care research group

2015-2021 National Council. Strategic Alliance for Registry and Health Data (STARS)

2012-2023 Chairman of the scientific council, National Orthopedic Nursing Science Centre

2021-2023 Steering group in the EU financed project “Evidence based Nurse Staffing in Danish acute Hospitals”. Central Denmark Region and Region hospital Gødstrup.

2017-2022 Regional specialist council, Orthopedic surgery 2007-2014 National Steering Group, Danish

register for hip fractures. Chairman 2011-2014.

2007-2022 Danish Nursing Association's documentation council

2006-2015 Deputy chairman of the board of the Danish Professional Society of Orthopedic Nurses

Editor or author. Books and book chapters

- Langkilde P, Mainz H. Documentation. Chapter in "Clinic – Textbook in Nursing". Munksgaard, 3rd rev, edition 2023
- Frandsen L, Mainz H. Sports injuries. Nursing care for the orthopedic patients. 1st edition. E-book. VIDOKS. 2023
- Mainz H et al. Mobilization of the orthopedic patient. VIDOKS 2023 (Editor)
- Mainz H et al. Sleep and orthopedic surgery patients. VIDOKS 2017 (Editor)
- Larsen E, Jacobsen KW, Mainz H, et al. Quality development and documentation. Arnold Busck. 1st edition. 2016
- Overgaard A, Delmar C, Mainz H et al. Nursing encyclopedia. Munksgaard. Edition 1. 2012
- Poulsen I, Mainz H et al. Orthopedic surgery. Disease theory and nursing. New Nordic publisher 2010

Publikations

- Mainz H, Tei R, Andersen KV, Lisby M Gregersen. Prevalence of missed nursing care and its association with work experience in a Danish University Hospital – a survey. International journal of Nursing Studies - advanced. Accepted Jan 2024
- Jensen PS, Specht K, Mainz H. Orthopaedic patients' experiences of their sleep during hospitalisation and suggestions for improvements. Int J Orthop Trauma Nurs. 2023 Oct 13
- Lisby M, Tei R, Mainz H, Gregersen M, Andersen KV. A Danish version of the MISSCARE survey: Translation and validation. Scand J Caring Sci. 2023 Jan 4.
- Ågård AS, Rasmussen GS, Mainz H, Gregersen M, Vedelø TW. Frontline nurses' experiences of managing visitor restrictions during the COVID-19 pandemic in a Danish university hospital - Lessons learned. Scand J Caring Sci. 2024 Jan 8
- Mainz H, Frandsen L, Fauno P, Lomborg K, Lind M. The impact of a patient decision aid on treatment choices after anterior cruciate ligament injuries. J Exp Orthop. 2023 Aug 16;10(1):82
- Mainz H, Odgaard L, Kristensen PK. Nursing representatives in clinical quality databases and the presence of nursing-sensitive indicators of fundamental nursing care. J Adv Nurs. 2022 Aug 8.
- Mainz H. Organizational factors associated with nurses' perception of healthcare quality and staffing adequacy. PhD dissertation. 2017. Aarhus Universitet.
- Mainz H, Baernholdt M, Ramlau-Hansen CH, Brink O. Comparison of nurse practice environments in Denmark and the USA. INR. 2015 Dec;62 (4):479-88
- Mainz H, Frandsen L, Lind M, Fauno P, Lomborg K. Development and Test of a Decision Aid for Shared Decision Making in Patients with Anterior Cruciate Ligament Injury. MDM Policy & Practice 2022.
- Jensen PS, Specht K, Mainz H. Sleep quality among orthopaedic patients in Denmark - A nationwide cross-sectional study. Int J Orthop Trauma Nurs. 2021 Feb;40
- Jensen RD, Bie M, Gundsø AP, Schmid JM, Juelsgaard J, Gamborg ML, Mainz H, Rölfing JD. Preparing an orthopedic department for COVID-19. Acta Orthop. 2020 Sep 10;91(6):644-649.
- MacDonald V, Maher AB, Mainz H, et al. Developing and Testing an International Audit of Nursing Quality Indicators for Older Adults With Fragility Hip Fracture. Orthop Nurs. 2018
- Hulbæk M, Jørgensen MJ, Mainz H, Birkelund R, Nielsen JB, Debrabant B, Primdahl J. Danish Translation, Cultural Adaptation and Validation of the Shared Decision Making Questionnaire – Patient Version. European Journal for Person Centered Healthcare 2018; Vol 6 Issue 3.

Summary of own research

With my clinical background, my involvement in quality development and the use of national registries for research over the past 20 years (publication on nursing in databases), it is clear to me that there is a great need to examine the importance of the environment in which clinical work takes place. This research would contribute to a higher level of evidence-based decisions about organizational structures to improve quality and efficiency. Despite an increasing number of international studies on this subject, my PhD project, "Organizational factors associated with nurses' perception of healthcare quality and staffing adequacy," from 2017 was the first research on organizational factors and nurse staffing in Denmark. There is a great need for further research to ensure nurses' working conditions in Denmark.

Based on my clinical background, involvement in quality development and use of national registries for research over the last 20 years (publications on nursing in databases), it is clear to me that there is a great need to examine the importance and quality of nursing practice and the environment to contribute to a higher level of evidence-based decisions to improve quality and efficiency.

Despite an increasing number of international studies on this topic, my PhD project "Organizational factors associated with nurses' perception of healthcare quality and staffing adequacy" from 2017 was the first research on organizational factors and nurse staffing in Denmark. There is a great need for further research to ensure nursing and nurses' working conditions in Denmark.

As a visiting scholar in the USA on research related to nurse staffing and Magnet Hospitals, I investigated Magnet hospitals (hospitals with excellent nursing and working environments), which formed the basis for the publication "Comparison of the nurse practice environments in Denmark and the USA". I also visited Beatrice Kalisch, the developer of the MISSCARE survey, and was inspired by her research on Missed Nursing Care (MNC). I was given permission to translate the MISSCARE survey into Danish. Together with research colleagues at Aarhus University Hospital, we translated, validated and psychometrically tested the questionnaire and collected data at Aarhus University Hospital (described in two publications).

Patient-centred care is another important research focus for me. Involving patients and their relatives in decisions about care and treatment to ensure informed decisions for the individual patient is crucial, and I have conducted research to develop and test decision aids and validated patient involvement questionnaires.

My research related to Missed Nursing Care

It has been a great opportunity to lead the national research on MNC from Aalborg University Hospital with inclusion of almost all hospitals in Denmark, acknowledged by the hospital nursing leaders described in the paper: "Missed Nursing Care in Denmark - a national survey". The data from all nursing staff who completed the questionnaire is stored in a nursing research database, which provide an excellent opportunity for research into Missed Nursing Care and related factors in different settings to optimize the work environment, strengthen nursing care, and improve outcomes for patient and nursing staff.

In the Nordic Missed Nursing Care research group we are preparing 3 publications on Missed Nursing Care: "International translations of the MISSCARE Survey: a scoping review", "Lessons learned from translating and culturally adapting the MISSCARE survey into a Nordic context – a comparative study", and "Is missed nursing care associated with hospital-acquired pneumonia in non-intensive old patients?".