

REPORT

ANNUAL REPORT 2019

SHARE - CENTRE FOR RESILIENCE IN HEALTHCARE



Main partners



Management Team



Centre Director:
Karina Aase



Centre Coordinator:
Lene Schibeveaag



Centre Coordinator:
Inger Johanne Bergerød



Communications Lead:
Cecilie Haraldseid-Driftland
(Maternity leave)



Coordinator:
Heidi Dombestein

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Anne Vifladt (**deputy**), Department of Health Science

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Mille Falstad, **Deputy Chairman**, Mental Helse Ungdom

Adrian Wilhelm Kjølø Tollefsen (**deputy**), **Secretary General**, Mental Helse Ungdom

SECRETARY FOR THE BOARD:

Karina Aase, **Professor / Centre Director SHARE**, UiS

EXTERNAL OBSERVERS

Thor Ole Gulsrud, **Head of Department of Quality and Health Technology**, UiS

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ABOUT



SHARE-fellows at the yearly writing seminar at Farsund Resort 2019.

SHARE

The Centre for Resilience in Healthcare (SHARE) is currently one of eight research centres at the University of Stavanger (UiS). The Centre was established in 2017 at the Faculty of Health Sciences, and together with the two national partners, Norwegian Air Ambulance Foundation (NAAF) and the Norwegian University of Science and Technology Gjøvik (NTNU Gjøvik) it constitutes Norway's largest research group studying quality and safety in healthcare.

Currently, SHARE has 29 ongoing PhD projects.

SHARE is truly multidisciplinary with 50 researchers affiliated including nurses, medical doctors, psychologists, physiotherapists, occupational therapist, lawyers, sociologist, engineers, and safety scientists. The Centre's main pillar is the solid base of PhD scholars conducting research in areas such as interdisciplinary teamwork and competence, co-production and involvement, telecare, regulation, evaluation of improvement measures, and analysis of healthcare processes. Many of the PhD scholars apply a resilience perspective to their research topics. Currently, SHARE has 29 ongoing PhD projects.

SHARE's research activities involve extensive collaboration with hospitals, primary care services, municipalities, technology suppliers, regulatory authorities, and user/ patient representatives and organisations. To support these collaborative activities and involve stakeholders from throughout the healthcare system, the Centre has in 2019 developed a patient and stakeholder involvement (PSI) strategy. The strategy has been developed to encourage and facilitate a greater degree and a broader spectrum of PSI across all of SHARE's research activities and projects, to increase the overall relevance and impact of the research conducted within the Centre.

Internationalisation

SHARE's strategic vision is to become an internationally recognized research centre by reforming the understanding of quality and safety in current healthcare systems using a new and comprehensive resilience in healthcare framework. To achieve such status, the Centre must develop, share, and communicate new knowledge on resilience at all levels of healthcare (micro, meso, macro).

SHARE collaborates with world leading researchers and research groups in Scandinavia, Europe, Australia, and Japan. The internationalisation efforts take several forms with the most important being researcher mobility, joint grant applications, organisation of expert panels and seminars, attendance at conferences, and adjunct professorships. A summary of 2019 activities is as follows, in which detailed information is provided in this annual report:

- Four SHARE researchers together spent 12 months as visiting scholars at Erasmus University, Australian Institute of Healthcare Innovation, FHNW School of Applied Psychology Switzerland, Haydom Institute of

Health Sciences Tanzania, and Malagasy Lutheran Institute of Nursing Education Madagascar.

- SHARE hosted seven researchers visiting the Centre from University of Geneva, University of British Columbia, Kings College London, Nottingham University, University of Leeds, Griffith University, and Aarhus University.
- SHARE participated in two EU grant applications in consortiums consisting of 40 partners across 12 countries.
- Hosted by the Norwegian Embassy in Tokyo, SHARE organized a Japan-Norway resilience seminar together with Japanese partners.

- SHARE researchers constituted the largest delegation at the Resilience Health Care Net Meeting 2019 in Japan.
- The Resilience in Healthcare and the QUALinCLINstud projects hosted Expert Advisory Board Meetings with 11 internationally renowned experts from Australia, UK, Canada, Netherlands, Finland, Sweden, and Denmark.
- Four international adjunct professors are affiliated with SHARE.



Researchers in healthcare quality and safety from Norway and Japan met to discuss research collaboration between the two countries.

LARGE RESEARCH PROJECTS

A SAFE-LEAD project workshop to evaluate a context-mapping tool for primary care. From left: Janne Gro Alsvik, Eline Ree, Torunn Strømme, Line Hurup Thomsen, Elisabeth Holen-Rabbersvik og Berit Ullebust.

SHARE RESEARCHERS

Professor Siri Wiig (Project manager)

Professor Karina Aase

Associate professor Ingunn Aase

Postdoctoral candidate Eline Ree

PHD CANDIDATES

Terese Johannessen, SHARE,
University of Stavanger

Torunn Strømme, SHARE,
University of Stavanger

CO-RESEARCHERS

Berit Ullebust, Sunnfjord municipality
– Center for Development of
Institutional and Home Care Services in
Sogn and Fjordane

Line Hurup Thomsen, Stavanger
municipality – Center for Development
of Institutional and Home Care Services,
Rogaland County

Elisabeth Holen Rabbersvik,
Kristiansand municipality

Anne Torhild Sandvik Pedersen,
Next of kin representative

Elsa Kristiansen,
Patient representative

Torunn Grinvoll, Directorate of Health,
Health & Social Services Ombudsman,
Vestfold County

PARTNERS

**Associate Professor Hester van
de Bovenkamp**, Erasmus University
Rotterdam, the Netherlands

Professor Roland Bal, Erasmus
University Rotterdam, the Netherlands

FUNDING

Research Council Norway
– HELSEVEL

BUDGET

22 mill NOK (12 mill RCN)

PROJECT PERIOD

1 October 2016–31 December 2021



SAFE lead primary care

There is an urgent need for quality and safety competence and available support tools for managers in nursing homes and homecare. We conducted the SAFE-LEAD intervention in 2018–2019 to reduce this competence gap. The aim of SAFE-LEAD was to build leadership competence by developing, implementing and evaluating a guide for managers' quality improvement work in nursing homes and home care services. The SAFE-LEAD guide and intervention were developed using a participatory approach in close collaboration with co-researchers, partners, and participants from nursing homes and home care services.

The SAFE-LEAD guide

The knowledge-based guide is designed as a reflexive tool for managers to support diagnosis and improvement of the quality and safety work in their organizations. The guide is centered around seven quality challenges: structure, culture, engagement, competence, coordination & organizational politics, external demands, and physical & technological challenges. It consist of a three-step process for managers or management teams:

- 1) rating themselves on the seven quality challenges and focus their improvement work
- 2) selecting goals related to the specific challenges
- 3) developing specific action plans according to the goals



As part of the SAFE-LEAD guide the research team (from left: Torunn Strømme, Siri Wiig, Anne Torild Pedersen and Terese Johannessen) made a demonstration video.



Improving quality and safety competencies among leaders in home care and nursing homes

The SAFE-LEAD intervention

The SAFE-LEAD guide was implemented in four nursing homes and four home care services in southwestern Norway. The intervention program consisted of workshops, site visits, e-learning material, demonstration videos, and studio lectures. The guide came in a paper-based version (booklet) and as a web-tool.

A taste of what we have found

Managers use the SAFE-LEAD guide in several ways in their quality improvement work, both individually and in groups. They see the guide as useful, as it helps create a systematic overview, facilitates collaborative reflections, raises awareness and fits with their daily work. Prioritization, anchoring, super users, and local adjustments are key factors for continued use of the guide.

Based on knowledge of how managers work with quality and safety, the challenges they face, and the factors facilitating or hindering their work, the SAFE-LEAD Context tool has been developed for researchers to map contextual factors to improve the understanding and evaluation of quality and safety interventions in primary care.

SELECTED PUBLICATIONS

Johannessen, T., Ree, E., Strømme, T., Aase, I., Bal, R., & Wiig, S. (2019) Designing and pilot testing of a leadership intervention to improve quality and safety in nursing homes and home care (the SAFE-LEAD intervention). *BMJ Open*. 2019;9:e027790.

Wiig, S., Aase, K., Johannessen, T., Holen-Rabbersvik, E., Thomsen, L. H., van de Bovenkamp, H., Bal, R., & Ree, E. (2019). How to deal with context? A context-mapping tool for quality and safety in nursing homes and homecare (SAFE-LEAD Context). *BMC Research Notes* 12:259.

Ree, E., Wiig, S., Manser, T., & Storm M. (2019). How is patient involvement measured in patient centeredness scales for health professionals? A systematic review of their measurement properties and content. *BMC Health Services Research*, 19.

LARGE RESEARCH PROJECTS

Petter Viksveen and Stig Bjønness at the 5th International Conference on Youth Mental Health.

Strengthening mental health services for adolescents

PROJECT MANAGER

Postdoctoral Researcher
Petter Viksveen, SHARE

PHD CANDIDATE

Stig Erlend Bjønness,
University of Stavanger

CO-RESEARCHERS

Maren McLean Andvik
Nicole Elizabeth Cardenas
Oliver Cuddeford
Samuel Duerto
Julia Rose Game
Celine Hetlelid
Maya Ibenfeldt
Martine Olivia Johansen
Lou Krijger
Laia Gomez Meldahl
Murad Mustafa
Mathias Tong

MASTER STUDENTS

Lobna Doudouh,
University of Stavanger
Sunniva Eikevåg,
University of Stavanger
Irene H. Enge,
University of Stavanger
Elisabeth Hærås Sæløen,
University of Stavanger

FUNDING

University of Stavanger

PROJECT PERIODE

Autumn 2016–2021

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Annual Report 2019



InvolveMENT

This research project addresses quality of mental health services for adolescents with mental health disorder and problems affecting their everyday life. InvolveMENT focuses on user involvement as part of improving the quality and safety of mental healthcare services for adolescents in Norway.

The InvolveMENT project aims to improve the quality of the healthcare services in order to strengthen adolescents' health and to prevent mental health conditions. To achieve this, we use multiple methods in order to improve access to and quality of the healthcare services, both in primary and secondary care.

The project has conducted surveys and qualitative studies in order to learn about adolescents' use, of experience with and perspectives on the healthcare service. Other stakeholders' perspectives are also sought, including adolescents' families, healthcare practitioners and healthcare management/leadership. These approaches provide research-based knowledge about experiences with the barriers and facilitators to service use and how adolescents can be actively involved in their own treatment.

Twelve adolescents and youths are actively involved as co-researchers throughout all

phases of the project. This includes planning and carrying out research, and dissemination of results.

Selected dissemination activities

Stig Bjønness, Petter Viksveen, Jan Olav Johannessen, Marianne Storm. *User participation and shared decision-making in adolescent mental healthcare: A qualitative study of healthcare professionals' perspectives (open access)*.

Adolescent co-researchers developed and organized a seminar by youths – for youths called “*We all have a mental health*” with 400 participants. You can read more about the seminar later in this annual report.

The InvolveMENT project had two oral presentations and a poster presentation at the 5th International Conference on Youth Mental Health in Brisbane, Australia 26–28 October 2019.

SHARE RESEARCHERS

Professor Karina Aase

(project manager)

Professor Siri Wiig

Professor Ove Njå

Adjunct professor Carl Macrae

Associate Professor

Elisabeth Jeppesen

Postdoctoral candidate

Veslemøy Guise

Postdoctoral candidate Cecilie

Haraldseid-Driftland

Postdoctoral candidate

Hilda Bø Lyng

PhD candidate Birte Fagerdal

Researcher Lene Schibevaag

Research assistant Janne Gro Alsvik

PARTNERS

Reader Janet Anderson,

King's College London, UK

Professor Mathilde Bourrier,

University of Geneva, Switzerland

Professor Tanja Manser, FHNW School

of Applied Psychology, Switzerland

Professor Stephen Billett, Griffith

University, Australia

Professor Roland Bal, Erasmus

University, The Netherlands

Professor Mary Chambers, Kingston

and St George's University of

London, UK

Professor Olav Røise,

Oslo University Hospital, Norway

ADVISORY BOARD

Professor Jeffrey Braithwaite,

Macquarie University, Australia

Adjunct Professor Carolyn Canfield,

University of British Columbia, Canada

Professor Adrian Edwards, Cardiff

University, UK

Postdoctoral Researcher, Minna

Silvennoinen, University of Jyväskylä,

Finland

Associate Professor Jane O'Hara,

University of Leeds, UK

Associate Professor Jessica Mesman,

Maastricht University, The Netherlands

FUNDING

Research Council Norway - FRIPRO

TOPPFORSK, University of Stavanger,

NTNU Gjøvik, The Norwegian Air

Ambulance Foundation

BUDGET

66 mill

PROJECT PERIOD

1 September 2018-31 August 2023

Resilience in Healthcare

Resilience in healthcare is the diverse capacities of a healthcare system that allow it to maintain the delivery of high quality care during and after events that challenge, change or disrupt its activities, by engaging people in collaborative and coordinated processes that adapt, enhance or reorganize system functioning in response to those events.

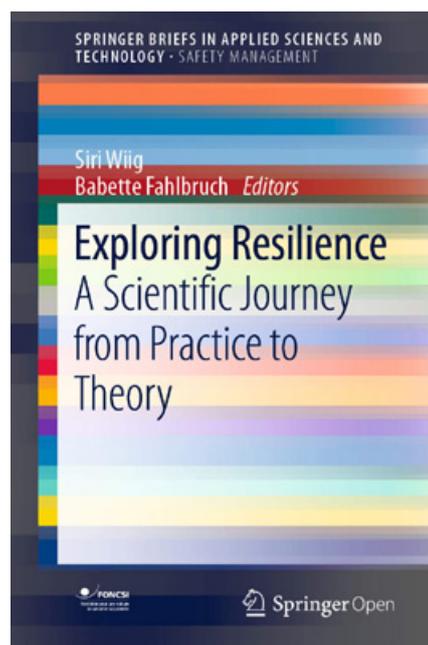
In short, the Resilience in Healthcare project has advanced resilience as *the capacity to adapt to challenges and changes in everyday practices at different system levels, to maintain high quality care.*

In 2019, the project launched the book *Exploring Resilience – A Scientific Journey from Practice to Theory* presenting a theoretical foundation for a resilience framework across scientific disciplines and system levels.

The scientific approach taken in the book is rooted in the fact that most empirical work on resilience has been descriptive, identifying characteristics of work processes which allow organizations to cope with unexpected situations. Fewer studies have developed testable models and theories that can be used to develop interventions aiming to support resilience. A total of 25 international authors contributed to the book edited by Siri Wiig and Babette Fahlbruch. The book is open access and freely available at Springer Link as part of SpringerBriefs in Safety Management.

To test and refine the Resilience in Healthcare theoretical framework, the RiH project has identified 50 past and current empirical projects within SHARE. A Quality and Resilience Trigger Tool has been developed for screening the empirical projects, and a sample of the projects will be analysed in a meta-synthesis on resilient adaptive capacities across empirical settings, system levels, and stakeholders.

Establishing a new and comprehensive Resilience in Healthcare framework



Book cover from the anthology "Exploring Resilience – A Scientific Journey from Practice to Theory" edited by Siri Wiig and Babette Fahlbruch.

LARGE RESEARCH PROJECTS

SHARE RESEARCHERS

Professor Kristin Akerjordet

(project manager)

Associate professor

Kristin Laugaland

Associate professor Ingunn Aase

CO-RESEARCHERS

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Stavanger Municipality

Jannicke Bekkelund,

Stavanger Municipality

PHD CANDIDATES

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Ingrid Espegren Dalsmo,

University of Agder

Ann Kristin Skalleberg,

University of South-Eastern Norway

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University of South-Eastern Norway

Professor Marianne Gonzalez,

University of South-Eastern Norway

Associate professor Hilde Solli,

University of South-Eastern Norway

Professor Åshild Slettebø,

University of Agder

Associate professor Else Mari Ekra,

University of Agder

Dosent Kari Brodtkorb,

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ADVISORY BOARD

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Professor Annica Khilgren,

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Professor Linda Lundgaard

Andersen, Roskilde University,
Denmark

Professor Patrick Crookes,

University of Canberra

Professor Stephen Billett, Griffith

University, Australia

FUNDING

Research Council Norway (RCN)

- HELSEVEL

BUDGET

14 mill (RCN)

PROJECT PERIOD

1 june 2018-30 May 2022

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QUALinCLINstud

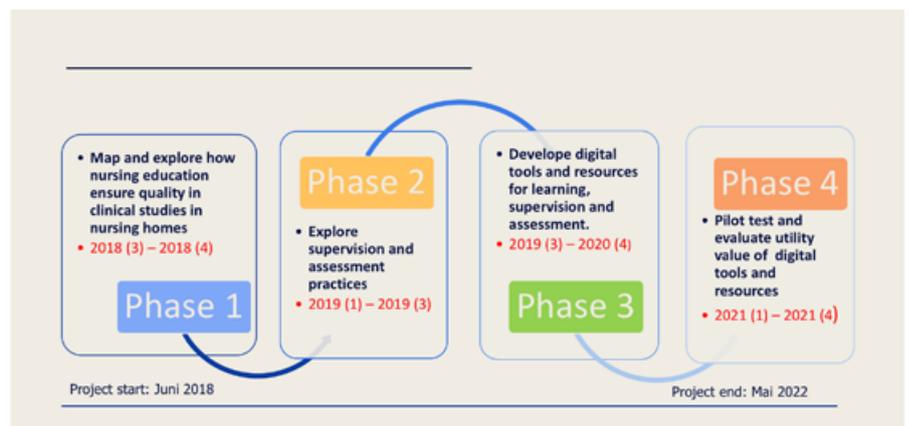
The QUALinCLINstud project addresses the urgent need for improved quality and efficiency in clinical supervision and assessment of student nurses in nursing home placements. This will be achieved through a novel, collaborative, co-productive, social innovation and learning process between the nurse education system, student nurses and clinical care institutions for older people.

This project aims to build a knowledge base to inform the development of an innovative web-based supervision and assessment program. More specifically, the program will improve

- 1) Student nurses learning experience
- 2) Nurse mentors supervision and assessment competence
- 3) Nurse teachers assessment tools
- 4) The efficiency of administrative tasks and processes.



The QUALinCLINstud research team hosted an advisory board meeting with national and international collaborative partners. From left: Linda Lundgaard Andersen, Anne Marie Lunde Husebø, Jannicke Brekklund, Patrick Crookes, Son Thanh Tran, Ingrid Espegren Dalsmo, Kari Brodtkorb, Annica Kihlgren, Hilde Solli, Petter Mordt, Ingunn Aase, Ann Kristin Skalleberg, Marianne Thorsen Gonzalez, Åshild Slettebø, Kirsti Skovdahl, Kristin Laugaland, Stephen Billett, Christina Frøiland.



Overview of the four research phases in QUALinCLINstud.

Aiming for quality in nursing home care: Rethinking clinical supervision and assessment of nursing students in clinical studies

Preliminary findings from phase 1 show that there is little systematic quality assurance carried out in the educational programs with regards to clinical studies in nursing homes. The educational institutions conduct limited monitoring and evaluation of the quality of clinical education. Collaboration with practice is described positively, referring to well-functioning systems with nursing homes welcoming the students even though capacity and resource challenges are present. The flow of information between educational and practice institutions is described as vulnerable, and there are variations in work require-

ments, educational tools and assessment forms across the educational institutions.

Phase 2 has conducted data collection with observational studies of supervision and assessment practices in nursing homes studies, as well as individual and focus group interviews with nurse mentors, student nurses and nurse teachers.

User involvement in QUALinCLINstud is ensured by engaging two registered nurses as co-researchers for the research period, as well as the establishment of user panels and resource groups with key stakeholders.

PHD PROJECTS AND POSTDOCTORAL PROJECTS

PhD Projects

Telecare in transitional care

Hilde Marie Hunsbedt (UiS)

Leading quality and safety in primary care

Terese Johannessen (UiS)

User participation and shared decision-making in adolescent mental healthcare

Stig Erlend Bjønness (UiS)

Healthcare professionals' observational competence in homecare

Torunn Strømme (UiS)

The access to necessary health care in light of the priority challenges

Solveig Hodne Riska (UiS, UiB)

A discharge pathway to meet the supportive care needs of patients with prostate cancer post hospitalization

Foteini Tsandila Kalakou (UiS)

Co-production of homecare services for senior citizens

Christophe E Kattouw (UiS)

Resilience and Regulation in Healthcare – mechanisms, challenges and opportunities

Sina Øyri (UiS)

Quality in supervision and assessment practices of nursing students in nursing home studies

Christina Tølbøl Frøiland (UiS)

Implementing a team-training program in bachelor of nursing to enhance teamwork skills and patient safety

Tore Karlsen (NTNU Gjøvik)

A Human Factors approach to medication administration in nursing homes

Kristian Ringsby Odberg (NTNU Gjøvik)

Teamwork in hospitals: A quasi-experimental study applying a Human Factor approach

Oddveig Reiersdal Aaberge (NTNU Gjøvik)

Improving the use of diagnostic imaging services: A guideline implementation study

Ann Mari Gransjøen (NTNU Gjøvik)

Identification, validation and benchmarking of quality indicators in prehospital advanced airway management

Alexander Kottmann (NAAF)

Comparing risk management in different medical crew composition models in Helicopter Emergency Medical Services

Kristen Rasmussen (NAAF)

Certification and accreditation in the specialist health services

Dag Thomas Sagen Johannesen (UiA)

Safe clinical practice for patients hospitalised in mental healthcare during a suicidal crisis

Siv Hilde Berg (SUS/UiS)

Quality and safety in hospital cancer care: A mixed methods study of next of kin involvement

Inger Johanne Bergerød (SUS/UiS)

Exploring hospital readmissions from the primary healthcare service: A multiple case study

Malin Knutsen (HVL/UiS)

Safety in the use of telecare for home-dwelling older adults. A qualitative study

Torunn Beate Johannessen (HVL/UiS)

National implementation of whole crew on-call in situ simulation in Norwegian Helicopter Emergency Medical Services

Per Bredmose (NAAF)

Simulation-based team training of non-technical skills among anaesthetic staff

Anne Strand Finstad (OUS)

High-fidelity simulation as part of clinical practice in nursing homes

Camilla Olaussen (LDH/UIS)

Exploring resilience in hospitals – A team-based approach

Birte Fagerdal (UiS)

Coordinated and family-centred long-term care pathways for children and their families: A Resilience perspective

Silje Karin Sjøseth Askeland (UiS)

Quality indicators in prehospital patient safety

Rita Woldmo (NAAF)

Motivation in the caregiver role – when home-dwelling parents have dementia

Heidi Dombestein (UiS)

Geriatric trauma – assessing patient safety

Mathias Cuevas-Østrem (NAAF)

Use of mortality data for detecting factors that may affect the occurrence of avoidable deaths

Jon Petter Blixt (NTNU Gjøvik)

Postdoctoral projects

Quantitative and qualitative studies of the impact and experiences of a leadership intervention in nursing homes and homecare

Eline Ree (UiS)

InvolveMENT – To strengthen adolescents' mental health services

Petter Viksveen (UiS)

Patient and stakeholder involvement in resilient healthcare

Veslemøy Guise (UiS)

Translating Resilience in Healthcare into practice by establishing a collaborative learning framework

Cecilie Haraldseid-Driftland (UiS)

Collaborative learning in resilience: Inter- and intraorganisational knowledge transfer

Hilda Bø Lyng (UiS)

CONSORTIUM PARTNERS



Department of Health Sciences in Gjøvik

SELECTED PUBLICATIONS

Aaberg, O. R., Ballangrud, R., Husebo, S. I. E., & Hall-Lord, M. L. (2019). An interprofessional team training intervention with an implementation phase in a surgical ward: A controlled quasi-experimental study. *J Interprof Care*, 1-10. doi:10.1080/13561820.2019.1697216

Aaberg, O. R., Hall-Lord, M. L., Husebo, S. I. E., & Ballangrud, R. (2019). Collaboration and Satisfaction About Care Decisions in Team questionnaire-Psychometric testing of the Norwegian version, and hospital healthcare personnel perceptions across hospital units. *Nurs Open*, 6(2), 642-650. Retrieved from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6419138/pdf/NOP2-6-642.pdf>. doi:10.1002/nop2.251

Aaberg, O. R., Hall-Lord, M. L., Husebo, S. I. E., & Ballangrud, R. (2019). A Complex Teamwork Intervention in a Surgical Ward in Norway. Retrieved from <https://bmresnotes.biomedcentral.com/track/pdf/10.1186/s13104-019-4619-z>. doi:https://doi.org/10.1186/s13104-019-4619-z

Ballangrud, R., Husebo, S. E., & Hall-Lord, M. L. (2019). Cross-cultural validation and psychometric testing of the Norwegian version of TeamSTEPPS teamwork attitude questionnaire. *Journal of Interprofessional Care*, 34(1). <xocs:firstpage xmlns:xocs=""/>. Retrieved from <https://www.tandfonline.com/doi/pdf/10.1080/13561820.2019.1638759?needAccess=true>. doi:10.1080/13561820.2019.1638759

Patient Safety Research Group at NTNU Gjøvik

The Patient Safety Research Group led by associate professor Anne Vifladd at Institute of Health Science (IHG), Faculty of Medicine and Health, NTNU Gjøvik is one of three partners in the SHARE Centre. The group has a Human Factors approach to their research with the aim of improving healthcare systems and processes, thus increasing patient safety.

There are currently 16 members of the Research Group of which 10 are involved in collaboration within the SHARE Centre. Collaboration activities consist of joint supervision of PhD candidates, joint publications, participation at research seminars, writing seminars, etc. These joint activities help build the professional and collegial relationships that characterize SHARE.

In addition to joint activities with SHARE, the Patient Safety Research Group organizes monthly meetings at the Gjøvik campus to discuss ongoing projects, new project ideas, research strategy, multidisciplinary projects, funding, and relevant theoretical perspectives. The Research Group works in close collaboration with Innlandet Hospital Trust and Karlstad University, Sweden.

Ongoing projects in collaboration with SHARE

- Teamwork in hospital: A quasi-experimental study applying a Human Factor approach.
- A Human Factors approach to medication administration in nursing homes.
- Improving the use of diagnostic imaging services: A guideline implementation study.
- Simulation-based team training of non-technical skills among anesthesia staff.
- Implementing TeamSTEPPS@2.0 team-training program in Bachelor of Nursing, curriculum to enhance teamwork skills and patient safety.
- Coordinated and family-centered long-term care pathways for children and their families': A resilience perspective.
- Use of mortality data for detecting factors that may affect the occurrence of avoidable deaths.
- Team training to support medication administration in prehospital care. A study of a teamwork interventions' impact on medication administration in the prehospital setting and stakeholder involvement.

Members of the Patient Safety Research Group at NTNU Gjøvik



Professor Marie Louise Hall-Lord



Professor Bjørn Morten Hofmann



Professor Solveig Struksnes



Associate professor Randi Ballangrud



Associate professor Maren Kristine Raknes Sogstad



Associate professor Sigrud Wangensteen



Associate professor Anne Vifladd



Assistant professor Marit Helene Sundt Storlien



Assistant professor Tone Stomlien



Doctoral candidate Oddveig Aaberg Reiersdal



Doctoral candidate Kristian Ringby Odeberg



Doctoral candidate Ann Mari Gransjø



Doctoral candidate Tore Karlsen



Doctoral candidate Jon Petter Blixt



Planned Doctoral candidate May Ingvild Volungholen Sollid



Doctoral candidate NTNU Ålesund Silje Liepelt

CONSORTIUM PARTNERS



Patient Safety in a prehospital setting.

Prehospital Patient Safety at the Norwegian Air Ambulance Foundation



Norwegian Air Ambulance
Foundation

The Norwegian Air Ambulance Foundation (NAAF) is one of three partners in the SHARE Centre. NAAF's activities in SHARE is part of the research cluster Prehospital Patient Safety covered by a collaborative partnership with the University of Stavanger (UiS) on research and education in prehospital critical care.

Prehospital patient safety is an important research area for the NAAF. Patient safety outside hospitals differs from patient safety in hospitals. At the hospital, patient care is well designed for optimal treatment with health technology and interventions, defined roles and responsibilities in a safe environment. Outside the hospital, in a prehospital setting, both staff and patients are more vulnerable. Treatment will often be time-critical and depends on immediately available resources and well-prepared expertise. Acute conditions must be treated promptly, decisions on patient care and treatment must be made under great uncertainty and transport initiated on many different platforms.

In addition, prehospital care providers treat and diagnose patients in all kinds of weather with limited resources to help.

Uncertain and unpredictable work conditions within the emergency chain could influence the capacity to execute healthcare of the highest quality. This may have origin in a lack of situational awareness, fragmentation, and insufficient coordination and communication among the health care providers. Handling and initial treatment are complex and involve many treatment options and include several parts of the treatment chain as First Aid, Dispatch, Ambulance, Advanced Emergency Medical Treatment, Proper Triage and Emergency Care. Patient safety in a prehospital setting must be viewed in the light of this and therefore, larger margins are needed to handle variation in quality of prehospital patient care. The aim of our collaboration is to improve quality along the entire emergency chain by developing, implementing and evaluating interventions.



Chairman of the SHARE board Ann Kristin Wiik, Professor Stephen Sollid Uis and associate professor Uis Elisabeth Jeppesen PHOTO: PRIVATE

2019 highlights:

- Chief Medical Officer of NAAF, Stephen Sollid was promoted to professor in prehospital critical care and patient safety.
- Ann Kristin Wiik from NAAF took over the position as the Chairman of the board in SHARE after Ingunn Skogstad Riddervold (NAAF).
- Associate professor Elisabeth Jeppesen took over the position as cluster leader for the patient safety cluster, in collaboration with former leader Stephen Sollid.
- NAAFs involvement in SHARE produced three peer-reviewed publications.
- The Patient safety cluster and the PhD fellows have held scientific presentations at national and international conferences, and participated in scientific networks related to advanced prehospital critical care and patient safety.
- The Patient safety cluster researchers Elisabeth Jeppesen, Jo Roislien and Stephen Sollid have been involved in teaching at the MSc Prehospital Critical Care at UiS.

NAAF presently funds five PhD projects in SHARE:

1. “Comparing risk management in different medical crew composition models in Helicopter Emergency Medical Services” by Kristen Rasmussen.
2. “Identification, validation and benchmarking of quality indicators in prehospital advanced airway management” by Alexander Kottmann.
3. “National implementation of whole crew on-call in situ simulation in Norwegian HEMS; feasibility, challenges and benefits” by Per Bredmose.
4. “Geriatric trauma – assessing patient safety” by Mathias Cuevas-Østrem.
5. “Quality indicators in prehospital patient safety” by Rita Husebø Woldmo.



PhD fellow Mathias Cuevas-Østrem at the London Trauma Conference 2019.

PHOTO: PRIVATE

CELEBRATING PHILOSOPHIAE DOCTORS

In 2019, three of SHARE's PhD candidates publicly defended their doctoral dissertations and earned the degree of philosophiae doctor. Here you can meet the candidates that convinced the evaluation committees in a highly skilful and solid manner: **Kathrine Cappelen**, **Veslemøy Guise** and **Martha Therese Gjestsen**. We asked them to tell us about their PhD thesis, and what their professional life looks like after the PhD degree.

Kathrine Cappelen

Kathrine Cappelen defended her PhD thesis at the Faculty of Health Science (UiS) on the 22nd of February 2019. She studied patient safety culture in nursing homes by measuring healthcare personnel's attitudes towards patient safety.

Kathrine used the "Nursing home survey on patient safety culture" to measure staff perceptions of patient safety culture in 12 nursing homes. The survey instrument was translated into Norwegian and tested at the nursing home sample resulting in a modified factor model to fit the Norwegian context.

Results showed a positive awareness of patient safety culture among frontline nursing home staff. They had confidence in their frontline nursing managers, with issues relating to management and organizational learning making the strongest contributions to patient safety culture. Patient safety culture improvement areas were related to staffing, training, and skills. Furthermore, the results showed that staff educational levels had less influence on patient safety culture than management positions. Patient safety culture also showed high stability across all nursing homes over a 20-month period, while only one nursing home showed a significant positive improvement during the period. The nursing homes' own organizational initiatives furthermore had a positive impact on the total patient safety culture score.

The strengths of Kathrine's thesis are the high response rates achieved (69%) from a cross-sectional sample of nursing homes, and the large proportion of respondents working directly with patients. The thesis has provided vital information on the status of patient safety culture in the Norwegian nursing home context. Using the validated instrument for measuring patient safety culture can provide valuable information about how frontline nursing staff perceive the patient safety culture in their workplace. Discussing and using the results can contribute to increased awareness of patient safety and the adoption of required improvement measures.

Kathrine is a trained nurse with a higher degree in pedagogy from the University of Oslo. She lives at Høvik in Bærum. After her dissertation, Kathrine is working as an associate professor at the University of South-Eastern Norway, Campus Porsgrunn. She is employed at the Department of Nursing and Health Sciences, with a main responsibility for patient safety and health law in the nursing education. Kathrine is also affiliated with the Centre for Care Research South where she is involved in several research projects of which some are in collaboration with SHARE.



THESIS

"Patient safety culture in nursing homes: Measurement, assessment and variability"

MAIN SUPERVISOR

Professor Karina Aase, SHARE

CO-SUPERVISOR

Professor Anette Harris,
University of Bergen





THESIS

“Simulation-based telecare training for home healthcare professionals: an action research study”

MAIN SUPERVISOR

Professor Siri Wiig, SHARE

CO-SUPERVISOR

Dr Janet Anderson,
King's College London

Centre Director Ingelin Testad,
SESAM, Stavanger University Hospital

Veslemøy Guise

When new healthcare technologies are put into place in diverse health care settings, healthcare professionals must learn new ways of working. Together with healthcare professionals, Veslemøy Guise has developed a simulation-based program for training and tested it in the homecare services. She defended her thesis at the Faculty of Health Sciences (UiS) on the 4th of March 2019.

Veslemøy's PhD thesis is about implementation of video visits where the patient communicates with health professionals from home using audio-visual communication tools. More knowledge about this topic is needed because home-based care services are changing, and new technology means that patients and healthcare professionals no longer need to be in the same place. Previous research has shown that it is complicated to introduce health technologies as healthcare services are often poorly prepared, and lack of competence in health care professionals is a challenge.

The study was designed as a five-phased participatory action research project conducted within two home healthcare organisations in Norway. A variety of qualitative research methods were used within the overarching approach.

Overall findings indicate that simulation is a useful approach to telecare training, providing practical insight into new ways of working. The use of a human factors systems approach

to changing care processes illuminated the complexity of telecare implementation and staff training. Finally, the collaborative processes involved in the participatory approach to training design can be a valuable way to prepare healthcare organisations for system changes and new ways of working implied by the adoption of telecare in home healthcare services.

Veslemøy (41) is born in Auckland, New Zealand. She holds a Master's Degree in Sociology from Victoria University of Wellington, New Zealand in 2006. She lives in Stavanger and holds a position as associate professor at the Department of Quality and Health Technology, UiS. On week after her dissertation she was employed as a postdoctoral fellow at SHARE in the research project Resilience in Healthcare.



CELEBRATING PHILOSOPHIAE DOCTORS



THESIS

"Informing an assistive living technology intervention to prevent hospitalisations for home-dwelling older persons"

MAIN SUPERVISOR

Centre leader, professor
Ingelin Testad, SESAM

CO-SUPERVISOR

Professor Siri Wiig, SHARE
Professor Kolbjørn Brønnick,
UiS, SESAM

Martha Therese Gjesten

Martha Therese Gjesten has studied how welfare technology can be used to prevent hospital admissions for home-dwelling older persons. She defended her thesis on the 2nd of April 2019.

Martha's PhD thesis describes the process of planning an assistive living technology (ALT) intervention for home-dwelling older persons receiving community care. In order to optimize the chance for successful implementation in community care, it is crucial to have a rationale for choosing appropriate technological applications. It is also crucial to understand how different contextual factors like the external environment, organisational issues, technological infrastructure, and human actions interact with each other in adopting ALT in community care.

Martha says that her PhD study had two phases. In **phase 1**, we aimed to identify the target group for an ALT intervention. We applied a quantitative and a qualitative approach. We found that the most common reason for referral to hospital was general decline, followed by infections and falls. We also explored which technological applications that potentially could be employed by health care personnel in community care in order to prevent hospitalisations for home-dwelling older persons. A variety of specific tools and applications were suggested to improve healthcare personnel's clinical observations.

Phase 2 identified key contextual factors for adopting ALT as described by managers and healthcare personnel. We applied a socio-technical perspective and found that such multi-level approach is appropriate to help identify potential barriers and incentives for the implementation of ALT in community care. Furthermore, the Model for Understanding Success in Quality (MUSIQ) provided guidance in identifying the contextual factors likely to influence future ALT implementation processes.

Martha Therese Gjesten (43) is educated as an oncology nurse and holds a Master's Degree in Health Sciences from UiS. She lives in Stavanger and while working on her thesis, she was a research coordinator at SESAM, Centre for Age-Related Medicine, Stavanger University Hospital. After her PhD degree, Martha works as a research portfolio lead and trial manager at SESAM, in the EU-funded project *Self-management and health promotion for persons with dementia, with e-learning for carers* (SHAPE).



RESEARCHER MOBILITY

In line with the SHARE Research Strategy (2018–2022) mobility is one of the main measures in the Centre’s efforts to reach an international position within the field of quality and safety in healthcare. SHARE has therefore hosted seven internationally acknowledged fellow scholars in 2019 for shorter or longer stays from one week to two months. Furthermore, four SHARE researchers have over the past year visited international partners for shorter or longer stays from one week to four months. The researcher mobility has resulted in the development of new research projects, scientific publications, participation at seminars, and guest lectures to a variety of audiences.

Mathilde Bourrier



Mathilde Bourrier, Siri Wiig and other SHARE-researchers in the workshop “Defining resilience in the Resilience in Healthcare project”.

– It was a wonderful re-energizing stay for me who became more accustomed to the Norwegian higher education system, to the University of Stavanger’s culture, and to SHARE’s stimulating intellectual and collaborative environment. The Resilience in Healthcare project will continue to offer a platform for future collaboration and exchanges.

Mathilde

In May and June 2019, Mathilde Bourrier, Professor of Sociology at the University of Geneva, Switzerland and adjunct professor at the University of Stavanger visited SHARE. The visit was part of a one-year sabbatical which later brought her to the University of California in Berkeley at the Institute of Governmental Studies.

Mathilde’s research examines the social construction of safety, focusing on the conditions under which organizational reliability can be achieved and sustained. She is especially interested in organizational design and resource allocation during severe and challenging conditions.

Before joining the SHARE Centre Mathilde had just published a book on managing epidemics, *Managing the Global Health Response to Epidemics – Social science perspectives*. She was invited to give a presentation of the book, which she particularly enjoyed because researchers at SHARE had given her crucial feedback at an earlier stage of the project. During her visit, she also gave an open lecture titled Safety Regime in High-Risk Industries, co-organized with the SEROS Research Centre at UiS.

Temporarily away from teaching, Mathilde started her new book project while in Stavanger which concerns itself with the problems of gaining access to contemporary organizations, *Entering the organization: short and*

great stories. While at SHARE Mathilde participated in various other activities:

- She gave feedback to a PhD candidate for her 50% completion seminar.
- She participated in a workshop organized by Professor Siri Wiig and Professor Carl Macrae on Defining resilience in the Resilience in Healthcare project.
- She hosted for the third time a research seminar on fieldwork challenges devoted to PhD candidates.
- She engaged with colleagues at SHARE on their strategies to get access to organizations for their research needs.



SHARE-researchers (from left) Lene Schibevaag, Torunn Strømme, Mathilde Bourrier, Solveig Hodne Riska and Siri Wiig celebrating the National day of Norway, 17th of May.

RESEARCHER MOBILITY

Sissel Eikeland Husebø



Fachhochschule Nordwestschweiz
Hochschule für Wirtschaft

From April to July 2019, Sissel E. Husebø, Professor in Nursing Science, spent three months at the University of Applied Sciences and Arts Northwestern Switzerland (FHNW) in Olten, Switzerland. The research stay was funded by the Mobility grant at the University of Stavanger.

During the stay, Sissel worked in an open-plan office on the fourth floor together with several professors, PhD and master students. This was a versatile and functional working environment with the bonus of access to a big veranda with a great view of Olten.

Tanja Manser, Professor and Dean, was Sissel's host at FHNW. There has been close collaboration between Tanja and SHARE over several years as she was Adjunct Professor in Patient Safety at UiS for three years (2016–2018) in a collaboration between the two research centres SEROS and SHARE, result-

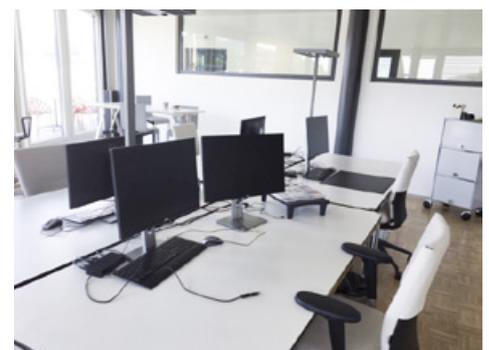
ing in several joint publications. Currently, FHNW is affiliated with SHARE as a partner in the *Resilience in Healthcare* project.

Sissel and Tanja have several joint research interests mainly related to simulation and teamwork in healthcare. The primary purpose of the research stay was therefore to discuss a joint publication and a book project. They also discussed the possibilities for a joint application for EU funding through the Marie Skłodowska-Curie Actions on Innovative Training Networks (ITN). The application Tools4Teams was later coordinated by VU University Medical Center Amsterdam and submitted with SHARE and FHNW as partners.

Sissel also had several meetings with Professor Carmen Zahn who had extensive competence on student learning in higher education, to discuss possible future collaboration.

Sissel's workstation at the open-plan office at FHNW campus Olten.

Sissel in front of the river Aare in Olten, eating homemade ice cream while having a well-earned break.



Ingrid Tjoflåt

During 2019, professor Ingrid Tjoflåt conducted several weekly visits to Tanzania and Madagascar. The aim of the research stays was to follow up and evaluate the research project *Developing and implementing simulation based education in Tanzania and Madagascar*.

The stays included observation and response to the simulation based education conducted by the teachers in Tanzania and Madagascar as well as further data collection. Several scientific articles are now in progress to disseminate the results of the project. The project is a collaboration between the University of Stavanger, two nurse education institutions in Tanzania and Madagascar, and Stavanger University Hospital. Ingrid is the principal investigator of the project who also includes associate professor Bodil Bø Våga, Faculty of Health sciences, Principal Paulo Madangi, Haydom Institute of Health Sciences, Tanzania, Dr. Hanitra Ralaitafika, Malagasy Lutheran Institute of Nursing Education,

Madagascar, professor Hege Ersdal, UiS and Stavanger University Hospital, and Samwel Ligmas, representing the Ministry of Health in Tanzania. The project received funding from the Laerdal Foundation.

During her research stays, Ingrid also visited Kilimanjaro Medical University College and Muhimbili University of Health Allied Sciences in Tanzania, and Université d'Antananarivo, Faculty of Medicine in Madagascar to investigate further research partnerships related to implementation of simulation-based education and digital learning tools.



Ingrid Tjoflåt and Bodil Bø Våga visiting Dr. Jane Roghathi, Associate Dean at the Faculty of Nursing, Kilimanjaro Medical University College.

Ingrid Tjoflåt observing simulation based education.



In Madagascar, Ingrid Tjoflåt and Bodil Bø Våga presented their research at the International Symposium on Interculturality with 100 participants attending.



RESEARCHER MOBILITY

Erasmus
University
Rotterdam



Siri Wiig

Professor Siri Wiig spent seven months abroad as a visiting Professor during 2019. The research stays were part of a sabbatical year where Siri visited two of SHARE's collaboration partners in the Netherlands and in Australia.



Siri is invited to dinner with Johanna Westbrook and Jeffrey Braithwaite.

- I would like to thank the University of Stavanger, Erasmus University, and the Australian Institute of Health Innovation for giving me the opportunity to travel and learn as part of my research. I would also like to give a special thanks to Jeffrey Braithwaite, Roland Bal, and Hester van de Bovenkamp for being superb hosts, mentors, and inspirations in my work.

Siri

In the Netherlands, Siri visited Erasmus School of Health Policy and Management, Rotterdam for four months. Professor Roland Bal and Associate Professor Hester van de Bovenkamp hosted the visit as part of their collaboration in the SAFE-LEAD project where they worked on a cross-country comparison component

during the stay. The research group at Erasmus works on regulation in healthcare and has a strong collaboration with the Dutch Health and Youth Care Inspectorate. Siri further developed the collaboration with key researchers in both institutions during her stay, resulting in several joint publications. Specifically, a study of user involvement in regulation across four countries (Norway, England, Australia and the Netherlands) was conducted during the research stay.

Moving on from the Netherlands, Siri visited the Australian Institute of Health Innovation (AIHI), Macquarie University, Sydney for three months. AIHI and SHARE have a longstanding collaborative partnership and AIHI is currently partner in the Resilience in Healthcare project in which Siri's visit was part of the project's mobility program. Professor Jeffrey Braithwaite, Director of the Centre for Healthcare Resilience and Implementation Science hosted the visit. Professor Braithwaite is also head of the Expert Advisory Board of the Resilience in Healthcare project. While at AIHI, Siri collaborated with key researchers on several publications including Robyn Clay-Williams, Kate Churruca, Louise Ellis,



The famous Erasmus Bridge in Rotterdam, the Netherlands.



Siri Wiig on one of her Sunday excursion, taking pictures of the Sydney Opera House from the Manly Ferry.

Peter Hibbert, Elisabeth Austin, Jim Smith, and Johanna Westbrook on topics related to accident investigation, user involvement, context mapping, and resilience in healthcare.

During her stay in Sydney, Siri was invited to be Honorary Professor at AIHI, she gave lectures at an open seminar series, and attended internal meetings to present her research. This resulted in new contacts with researchers and practitioners throughout Australia. AIHI and Professor Braithwaite have kindly hosted several SHARE researchers over the past years and they all report on a research environment with talented and hardworking researchers, an open culture, and a large interest in sharing knowledge and collaborate.



Ove Njå

Professor Ove Njå visited Australian Institute of Health Innovation (AIHI) at the University of Macquarie, Sydney for two months to further develop the close collaboration between SHARE and AIHI.

Ove's research stay at AIHI was part of the mobility program of the Resilience in Healthcare project and included joint work on scientific articles, and development of two research projects. The staff at AIHI provided support with different issues and included Ove in ongoing activities. A joint meeting on simulation in healthcare and system modelling was held with AIHI researchers, researchers from the University of Technology, Sydney, and Dr. Kurt Kreuger from the USA.

A study on *Crisis management and the issue of resilience in a system theoretic perspective* was presented by Ove for the researchers at AIHI, building on data from the Norwegian air ambulance services and emergency department assessment. It was discussed whether the study could have a comparative element with data from Australian Emergency Departments.

During the research stay, a meeting was held with the Sydney Ambulance service and related researchers to discuss possible research projects in collaboration between AIHI and SHARE. A preliminary pilot pro-



Ove Njå overlapped professor Siri Wiig with one day at AIHI and the SHARE-office was therefore in continued use.

ject was agreed upon, comparing Norwegian and Australian regulations and procedures governing the ambulance services.

Other activities included discussion of the study *On the ontological status of resilience, seen in the context of healthcare* with co-author Robyn Clay-Williams, and a lecture held by Ove on the topic *From risk management to resilience engineering. The role of dichotomization*.

RESEARCHER MOBILITY

Shorter research visits to SHARE



Stephen Billett,
Griffith University, Australia

Stephen is Professor of Adult and Vocational Education in the School of Education and Professional Studies. He has published widely within the fields of workplace learning. While at SHARE he has participated at

the QUALinCLINstud Advisory Board and in the Resilience in Healthcare project, in which he is co-investigator on Collaborative Learning.



Carolyn Canfield,
University of British Columbia, Canada

Carolyn is a Canadian citizen patient affiliated with the University of British Columbia where she is Adjunct Professor in the Department of Family Practice. She is one of the few professional patient citizen researchers with

personal experience as both next-of-kin and as a patient. While at SHARE she has led the Resilience in Healthcare Advisory Board, held lectures at open seminars and contributed to PhD workshops.



Jane O'Hara,
University of Leeds, United Kingdom

Jane is an Associate Professor in Patient Safety and Improvement Science at Leeds Institute of Medical Education, and Deputy Director of the Yorkshire Quality and Safety Research Group. Her research include the involvement of patients in patient safety,

measurement of quality and safety, and the use of behavior change approaches. While at SHARE she has contributed to several joint publications, acted as member of the Resilience in Healthcare Advisory Board, participated in workshops, and held an open lecture.



Janet Anderson,
King's College, United Kingdom

Janet's disciplinary background is psychology and she is Director of the Centre for Applied Resilience in Healthcare (CARE). Her research include applying insights from resilience theory to improve the quality and safety of healthcare in numerous empiri-

cal settings. She is an adjunct professor at SHARE and is the principal investigator on the international resilience study as part of the Resilience in Healthcare project, contributing to workshops and several joint publications.



Carl Macrae,
Nottingham University, United Kingdom

Carl is a social psychologist based at Nottingham University Business School. He is an established researcher within safety investigation and resilience with a multi sector background. He is adjunct professor at SHARE and is co-investigator on the devel-

opment of a theoretical resilience framework in the Resilience in Healthcare project. He has led several workshops, contributed to joint publications, and is lecturing on the SHARE master course on Safety investigation in healthcare.



Susanne Nissen Sagoo,
University College Syd Denmark

Susanne is an occupational therapist and holds a master in Health anthropology. While at SHARE she worked on a PhD project plan on involvement of caregivers in acute hospital

wards together with professor Karina Aase. She also met other SHARE researchers with experiences from similar research projects.

RESEARCH DISSEMINATION

Lene Schibevaag, Karina Aase, Inger Johanne Bergerød and Siri Wiig (from left) outside the Norwegian Embassy, Tokyo, Japan.

PHOTO: PRIVATE



Research collaboration with Japan

Eight SHARE researchers went to Japan in August 2019 to explore opportunities for research collaboration in the field of quality and safety in healthcare.

- This has been a great experience for all of us. We hope to have made a great impression on future partners here in Japan. We have met the foremost researchers in our field in Japan, and we ended the seminar with discussion of opportunities for collaboration and dinner and networking at the embassy.

Siri Wiig, professor SHARE

As part of the partnership activities, the Norwegian Embassy in Tokyo, in collaboration with SHARE, Osaka University Hospital, Yokohama City University Medical Centre and Laerdal Medical Japan held a seminar on the 22nd August 2019 entitled *Resilience in Healthcare – Norwegian Research and Perspectives* with a following reception at the Embassy.

The seminar brought together 40 Japanese representatives from research institutions, healthcare services and government agencies in the field of quality and safety in healthcare in order to present relevant research activities, and discuss future possible research collaborations between Norway and Japan. Possible research topics were quality and safety improvement, simulation and learning, patient involvement, regulation and resilience, technology in healthcare, and incident investigation.

Representatives from SHARE also had a meeting with Svein Grandum, Counsellor

of Science, Technology and Higher Education Research Council of Norway, and Innovation Norway, and Svend Haakon Kristensen, President and Representative Director Laerdal Medical Japan to set a concrete plan of action for following up on detailed collaboration activities. The partnership will involve mobility of researchers between the two countries, collaboration on research projects and applications, and a proposal for an annual Norway-Japan Resilience meeting in the coming years to ensure continuity and predictability in the collaboration.



Participants at the embassy reception enjoying great cuisine and networking.

PHOTO: PRIVATE

Attendees at the 8th Resilient Health Care Conference and Resilient Health Care Meeting 2019.

PHOTO: PRIVATE

- We are very happy with the sizable SHARE contribution at this year's RHCN meeting. From having been 1-2 representatives previous years to now being one of the two largest delegations at this venue enables our research to be highlighted and lays the foundation for extending our international collaboration. In addition, it makes us more attractive to other international research groups.

Karina Aase, Centre Director



8th Resilient Health Care Net Meeting, Awaji, Japan

Attended by many of the main academic proponents of resilience in healthcare, the Resilient Healthcare Net (RHCN) has become an important meeting arena for SHARE researchers. Eight researchers from SHARE attended this year's meeting.

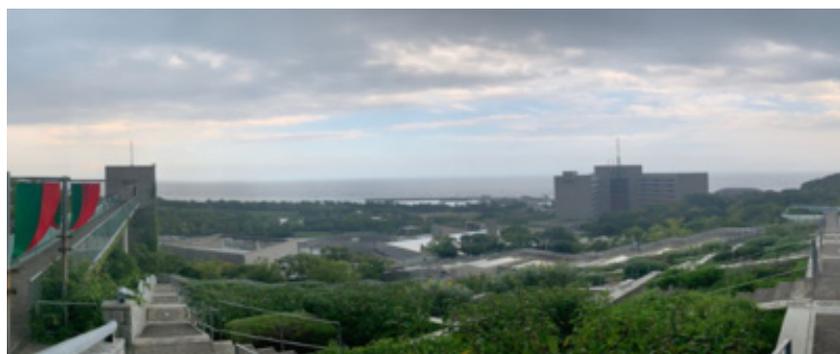
Approximately 116 clinicians and researchers from all over the world were present at a one-day conference followed by the RHCN meeting in which 59 clinicians and researchers took part. The design and nature of the RHCN meeting fit the purpose of short talks

followed by long discussions and reflective conversations. During the three day meeting all eight SHARE researchers contributed with either presentations or 'lightening talks' on their respective research.



Back from left: Siri Wiig, Sina Øyri, Karina Aase, Inger Johanne Berge-rød, Eline Ree. Front from left: Anna Sofia Aase (14 yr.), Lene Schibev-aag, Veslemøy Guise, Finn Batt (2 yr.), Cecilie Haraldseid-Driftland .

PHOTO: PRIVATE



View of the Conference and RHCN meeting venue, Awaji Island Japan. PHOTO: PRIVATE

RESEARCH DISSEMINATION



Some of the attendees at the 7th Network gathering in Sandnes 25th of September. PHOTO: KRISTIN LYSE, PÅRØRENDESENTERET STAVANGER

Annual gathering in Network for Carer Research

The 7th Network gathering was organised as part of the larger Carer Conference on 25–26th September 2019. Network for Carer Research was a partner in organising the conference and SHARE coordinator Inger Johanne Bergerød participated in the program committee.

Network for Carer Research was established at the University of Stavanger in 2013. In 2018, the coordination of the Network was integrated in the SHARE Centre. Currently, the Network consists of approximately 170 persons: researchers, clinical practitioners, and other stakeholder groups.

The aim of the annual network gatherings is to create an arena where researchers, healthcare professionals, caregivers and other interest groups meet to share knowledge, disseminate results or exchange and develop research ideas within carer research.

In 2019, Network for Carer Research was further integrated as part of SHARE with Inger Johanne Bergerød and Heidi Dombestein as network coordinators, and Karina Aase and

Siri Wiig as members of the coordination team. A 5-year strategy (2019–2023) for the Network is developed by a multi-stakeholder group and available on the SHARE website. The Network has become an important facilitator for patient and stakeholder involvement in SHARE by participating in national and international program committees and by gathering stakeholders in the annual Network meetings.

400 participants at the seminar «We all have a mental health» at the University of Stavanger, 26th of September 2019.



Adolescents seminar - reducing stigma in mental health

Adolescent co-researchers in the InvolveMENT project developed and organized a seminar by youths - for youths called "We all have a mental health". The aim of the seminar was: **1)** to contribute to reduce stigma associated with mental health problems and service use among adolescents; and **2)** to collect data from the participants to be used in research.

The seminar gathered adolescents from secondary and high schools from all parts of Rogaland County. A total of 400 participants attended the one-day seminar of which 310 were adolescents. The remaining participants were teachers, researcher, and other stakeholders within the field of mental health.

The seminar was led by the team of adolescent co-researchers who also contributed with presentations of their own research in the InvolveMENT project, experiences with mental health challenges, sexual identity issues and challenges faced by refugees. In addition, presentations were held by a school nurse and representatives from mental health organizations.

The co-researchers collected research data from the adolescent seminar participants through an internet-based tool (Mentimeter). The researchers and co-researchers are currently analyzing data to develop a scientific publication and recommendation for how teenagers, parents, teachers and healthcare practitioners may contribute to prevent stigma.

SEMINAR BY TEENAGERS - FOR TEENAGERS
WE ALL HAVE A MENTAL HEALTH
 What can we do to reduce mental health stigma?



WHEN
26 September 2019
09:00 - 14:30
 The seminar is Norwegian

WHERE
University of Stavanger
 Arne Røedals bus Rom 0-001 (Løstasje)
 Bussno. 6, 7 og 100. Stop: UIS Øst

REGISTRATION BY 30 AUGUST
 Let your teacher know. Each school should send an email to petterviksveen@uis.no

CONTRIBUTORS
 • Mental Helse Ungdom • Unghjelp • Forandringsfabrikken
 • Sander Olsen, ungdommens lykesordfører • Steinar Berg
 • SHARE • Universitetet i Stavanger

WWW.UIS/SHARE.NO  VERDENS DAGEN FOR PSYKISK HELSE

PROGRAM

Seminar opening
 The InvolveMENT team
 Sander Olsen,
 Youth County Council Mayor
 Steinar Berg, musician
 09:00 – 09:45

Youth, mental problems and use of mental health services
 Loui Kriger, 17 years
 09:45 – 10:05

What do teenagers ask about?
 What is difficult to talk about?
 Victoria Moom, Vice Chair
 Unghjelp 10:05 – 10:25

Break 10:25 – 10:45

Alone with mental problems?
 Maren McLean Andvik, 17 years
 10:45 – 11:05

Coming out of the closet
 Laia Gomez Meldahl, 17 years
 11:05 – 11:25

FREE lunch 11:25 – 12:00

Music Steinar Berg 12:00 – 12:10

Refugees and mental problems
 Murad Mustafa, 20 years
 12:10 – 12:30

Good mental care support
 Mental health professionals from The Change Factory
 12:30 – 13:10

Break 13:10 – 13:30

No problem too small, no problem too large!
 Ingeborg Stangeland, school nurse 13:30 – 13:50

How can we reduce stigma?
 Discussion 13:50 – 14:15

Closing, with music
 The InvolveMENT team
 14:15 – 14:30

RESEARCH DISSEMINATION



Writing course in popular science contributions

How to write a popular science contribution and get published? This can be challenging for academic researchers, so SHARE organised a writing course to train these skills.

There is no good translation of the word “kronikk” as this is a typical Norwegian and Danish way of publishing research interesting and relevant to many people. To write in this way can be quite a challenge for researchers used to a formal and advanced academic language. A “kronikk” should have a form so readers without specialised knowledge on the topic can understand the contents. Therefore, SHARE arranged a writing course to inspire and train SHARE fellows in these skills.

Journalist Eldrid Borgan and Editor of debate Eivind Nicolai Lauritsen, both from Forskning.no held the course. It was a one-day course with an offer of follow-up on manuscripts and 13 SHARE researchers attended the course. So far, the course has resulted in six published popular science contributions:

- Sina Furnes Øyri (PhD candidate). Title: *Derfor burde leger og sykepleiere elske myndighetene*. Published in Stavanger Aftenblad
- Karina Aase (professor). Title: *Norge er fortsatt ikke best på pasientsikkerhet*. Published in Dagens Medisin
- Lene Schibevaag (research coordinator). Title: *Derfor må vi høre de etterlattes stemme når pasienter dør*. Published in Stavanger Aftenblad
- Kristin A Laugaland and Ingunn Aase (associated professors). Title: *Utdanningene må ta sykepleiedokumentasjonen alvorlig*. Published in Dagens Medisin
- Heidi Dombestein (PhD candidate). Title: *Motiverte pårørende: Tre ting som kreves for å stå i stormen*. Published on Forskersonen, Forskning.no
- Adriana Rosenberg (associated professor) and Ragnhild Finnesand Michaelsen (assistant Professor, Department of Quality and Health Technology). Title: *Skreddersydd ferdighetstrening for sykepleiestudenter*. Published on Forskning.no



PHOTO: MARIT LØVÅS / UIS

SHARE fellow participated in Research Grand Prix

Stig Bjønness represented SHARE in the regional final in Research Grand Prix, a national competition in popular science dissemination of research.

His topic was shared decision making in adolescent mental health treatment. This is the third time SHARE researchers are participating in this competition. In 2018 Inger Johanne Bergerød participated, and in 2014 Cecilie Haraldseid won the regional final.



- This is a great learning experience in research dissemination for PhD candidates. I encourage other candidates to take the opportunity to join the competition

Stig Bjønness



Stig Bjønness

PHOTO: MARI HULT / UIS

OTHER ACTIVITIES



Course participants and teachers attending the new master course SHARE-500 Safety investigation in healthcare.

New master course in Safety Investigation in Healthcare

The new master course SHARE-500 Safety investigation in healthcare was held for the first time during fall 2019. The course is developed in collaboration with the National Investigation Board in the Health and Care Services (NIBHCS) and most NIBHCS employees attended the course.

Safety investigation in healthcare is a key element in learning from adverse events, and competence on how investigations are understood and approached is lacking among Norwegian healthcare stakeholders. The aim of the course is to give attendees the knowledge, skills, and analytical capacity to understand important conditions in achieving high quality safety investigations. The course covers the following topics:

- Accident models and theoretical foundation for safety investigations
- Complexity of healthcare systems, technology and people
- Methods of safety investigations
- Patient and stakeholder involvement in safety investigations
- Just culture, safety investigation and organizational learning
- Simulation in safety investigations

Course responsible is professor Siri Wiig in collaboration with post doctor Veslemøy Guise, post doctor Cecilie Harald-seid-Driftland, and Professor Carl Macrae. Professor Olav Røise and professor Ove Njå contributed with lectures. The UiS unit for adult education (EVU) organized the course.



Attendees at the research meeting, ready to listen to and give constructive feedback on fellow researchers' presentations.

Monthly research meetings

SHARE has a longstanding tradition for arranging monthly research meetings at the UiS campus, so also in 2019.

The meetings are for all researchers affiliated with the Centre as well as for master students supervised by our researchers. On average, about 15–25 researchers attend each meeting. A typical agenda consists of a short information section on ongoing activities and plans in the Centre, and a longer section on scholarly presentations and feedback. The presentations may relate to PhD project plans, draft article manuscripts, thesis synopsis, or published scientific work.

The research meetings at SHARE constitute an important arena for practicing on schol-

arly presentations and for receiving feedback in an informal and constructive atmosphere. It is mandatory for PhD candidates to give annual presentations of their research to colleagues as part of their PhD program, and the research meetings have a solid tradition for providing constructive feedback in a safe environment. Research meetings are also an excellent arena for learning and sharing knowledge across research projects, while new researchers or visiting scholars are introduced to the larger research centre environment here.

OTHER ACTIVITIES

Open seminar on Resilience in Healthcare

Almost 60 participants joined the SHARE Open Resilience Seminar on the 20th of March 2019. The participants were SHARE researchers, representatives from Stavanger University Hospital, the Norwegian Investigation Board for Health (UKOM), master students and other academics from UiS and other universities.

Internationally acknowledged speakers contributed to the seminar with the following topics:

- *Resilience from a system perspective* by professor Jeffrey Braithwaite, Australian Institute of Healthcare Innovation, Macquarie University, Australia.
- *Resilience from a patient and carer perspective* by independent citizen-patient Carolyn Canfield, University of British Columbia, Canada.
- *Patient and family perspectives in resilient healthcare research* by associate professor Jane O'Hara, University of Leeds and Bradford Institute of Health Research, UK.
- *Resilience from a collaborative learning perspective* by post doctoral scholar Minna Silvennoinen, University of Jyväskylä, Finland.
- *Collaborative learning in healthcare: Promoting resilience at work* by professor Stephen Billett, School of Education and Professional Studies, Griffith University, Australia.

The Open Resilience Seminar was held at Ydalir Campus Hotel and several researchers affiliated with SHARE contributed with lectures on a number of topics.



FINANCIAL STATUS

SHARE's revenue is based on two components; basic funding from the University of Stavanger and reallocated overhead funds from externally funded research projects.

Externally funded project grants currently affiliated with SHARE

(numbers in mill NOK)

	Project period	Funding from Research Council Norway	Own financing from UiS and partners	Contractual value
SAFE-LEAD	2016-2021	12.0	10.4	22.4
QUALinCLINStud	2018-2022	14.0	11.6	25.6
RiH	2018-2023	12.5	53.6	66.1
TOTAL		38.5	75.6	114.1

The externally funded project grants are budgeted with a substantial amount of own financing in the forms of researcher time set aside by SHARE researchers with the three consortium partners (UiS, NAAF, NTNU Gjøvik) and by other collaborating partners.

SHARE administration project - accounting 2019

The funds for coordinating and running the daily activities of SHARE is set aside in an administration project, with the following items:

Transfer from 2018	140 426
Revenues	
Basic funding from UiS	1 437 356
Reallocated overhead funds	1 493 090
Expenses	
Salaries and social costs	1 514 079
Other operating expenses	525 799
Own financing to project	180 006
Result	
Transfer to 2020	850 988

The financial value of externally funded projects in SHARE and the positive results of the administration project document an economically healthy centre status for 2019.

PUBLICATIONS

The researchers within and affiliated with the SHARE Research Centre has contributed to a total of 170 different publications. There has been published a total of 30 journal articles, 1 book, 8 book chapters, 3 PhD theses, 1 report, 106 conference contributions and scholarly presentations, 13 popular science contributions and 8 media contributions.

Journal articles

- Aaberg, Oddveig Reiersdal; Ballangrud, Randi; Husebø, Sissel Iren Eikeland; Hall-Lord, Marie Louise.** An Interprofessional Team Training Intervention with an Implementation Phase in a Surgical Ward: A controlled quasi-experimental study. *Journal of Interprofessional Care*. 2019. NTNU, UIS.
- Aaberg, Oddveig Reiersdal; Hall-Lord, Marie Louise; Husebø, Sissel Iren Eikeland; Ballangrud, Randi.** A Complex Teamwork Intervention in a Surgical Ward in Norway. *BMC Research Notes*. 2019; Volume 12. NTNU, SUS, UIS.
- Aaberg, Oddveig Reiersdal; Hall-Lord, Marie Louise; Husebø, Sissel Iren Eikeland; Ballangrud, Randi.** Collaboration and Satisfaction About Care Decisions in Team questionnaire – psychometric testing of the Norwegian version, and hospital healthcare personnel perceptions across hospital units. *Nursing Open*. 2019; Volume 6.(2) p. 642–650. NTNU, SUS, UIS.
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- Husebø, Sissel Iren Eikeland;** Olsen, Øystein Evjen. Actual clinical leadership: a shadowing study of charge nurses and doctors on-call in the emergency department. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*. 2019; Volume 27. SUS, UiB, UIS.
- Johannessen, Terese; Rec, Eline; Strømme, Torunn; Aase, Ingunn;** Bal, Roland; **Wiig, Siri.** Designing and pilot testing of a leadership intervention to improve quality and safety in nursing homes and home care (the SAFE-LEAD intervention). *BMJ Open*. 2019; Volume 9.(6) s. 1–11. UIS.
- Johannessen, Torunn Beate;** Holm, Anne Lise; Storm, Marianne. Trygg og sikker bruk av velferdsteknologi i hjemmebasert helse- og omsorgstjeneste. *Tidsskrift for omsorgsforskning*. 2019; Volume 5.(3) p. 71–83. HVL, UIS.
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- Berg, Siv Hilde; Aase, Karina.** Resilient Characteristics as Described in Empirical Studies on Health Care. In: *Exploring Resilience A Scientific Journey from Practice to Theory*. Springer Nature 2019 ISBN 978-3-030-03189-3. p. 79–87. SUS, UIS.
- Cappelen, Kathrine.** Patient Safety Culture in Nursing Homes Measurement, Assessment and Variability. Faculty of Health Sciences: University of Stavanger, Norway. (PhD Thesis). 2019. ISBN 978-82-7644-818-4. 175 p. USN.
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- Gjesten, Martha Therese.** Informing an assistive living technology intervention to prevent hospitalisations for home-dwelling older persons. University of Stavanger, Norway. (PhD Thesis) 2019. ISBN 978-82-7644-833-7. 100 p. SUS.
- Guise, Veslemøy.** Simulation-based telecare training for home healthcare professionals: an action research study: University of Stavanger, Norway. (PhD Thesis). 2019. ISBN 978-82-7644-825-2. 101 p. UIS.

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Aase, Ingunn. Interprofessional teamwork simulation training among healthcare students. Visit – cooperation; 2019-11-09–2019-11-16. UIS.

Aase, Ingunn. Læring i tverrfaglege team. Utdanningskonferanse; 2019-11-21–2019-11-22. UIS.

Aase, Ingunn; Aase, Karina. Designing for interprofessional team training in nursing and medical education. Theory, research and education in nursing, 12. International Scientific Conference; 2019-05-23–2019-05-24. UIS.

Aase, Ingunn; Tjøflåt, Ingrid. Glimt frå Palestina. Avdelingsmøte; 2019-11-19–2019-11-19. UIS.

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Berg, Siv Hilde. “Safe clinical care for patients hospitalized in mental wards during a suicidal crisis: patients' experiences”. Workshop; 2019-04-01. SUS.

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- Cappelen, Kathrine.** Forelesning ved avslutning – Videreutdanning i geriatri – basert på prøveforelesning, Ph.D: Hva er sykehjems-kvalitet, og hva kan den være forbundet med?. Avslutning videre-utdanning; 2019-04-11. USN.
- Cappelen, Kathrine.** Pasientsikkerhet i sykehjem – utfordringer fremover. Pasientsikkerhetskonferansen 2019; 2019-09-27. USN.
- Cuevas-Østrem, Mathias.** Eldre og hardt skadd – en livsfarlig kombinasjon. Pasientsikkerhetskonferansen 2019; 2019-09-26. UIS.
- Cuevas-Østrem, Mathias.** Geriatric trauma – a rising tide. Assessing patient safety challenges in a vulnerable population. Presentasjon av et planlagt doktorgradsarbeid. Luftambulansedagene 2019; 2019-01-23. UIS.
- Cuevas-Østrem, Mathias.** Geriatric Trauma – Assessing Patient Safety challenges in a vulnerable population. Presentation of a research protocol. EUPHOREA Cardiff 2019; 2019-04-29–2019-04-30. UIS.
- Cuevas-Østrem, Mathias.** Geriatric trauma and the Injury Severity Score. Defining major trauma – where should we set the bar? London Trauma Conference; 2019-12-10–2019-12-13. UIS.
- Cuevas-Østrem, Mathias.** Traumer i den eldre befolkningen. Fagljussj hos Stiftelsen Norsk luftambulans; 2019-10-29. UIS.
- Engmannn Thuve, Janne; **Rosenberg, Adriana;** Fredriksen, Kari. Mestringsstrategier hos pasienter med inflammatorisk tarmsykdom. Stavanger universitetssykehus; 2019-09-20. SUS, UIS.
- Frøiland, Christina Tølbøl; Aase, Ingunn.** Aiming for quality in nursing home care: rethinking clinical supervision and assessment of student nurses in clinical studies. Informasjonsmøte; 2019-01-08. UIS.
- Frøiland, Christina Tølbøl; Laugaland, Kristin Alstveit.** Aiming for quality in nursing home care: rethinking clinical supervision and assessment of student nurses in clinical studies. Informasjonsmøte; 2019-01-23. UIS.
- Gjestsen, Martha Therese.** INNOVASJONSBEGREPET Velferdsteknologi – bakgrunn og perspektiv. Videreutdanning i Eldre, helse og samfunn; 2019-11-12. SUS.
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- Guise, Veslemøy.** Simulation-based telecare training for home healthcare professionals. Resilience in Healthcare – Norwegian Research and Perspectives; 2019-08-22. UIS.
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- Haraldseid-Driftland, Cecilie.** Education is linked to a research environment. Forskningsbasert undervisning- Fagdag på samfunnsvitenskapelig fakultet; 2019-02-14. UIS.
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- Laugaland, Kristin Alstveit.** Kvalitet i kliniske studier – muligheter for masteroppgaver. Forskningstorget; 2019-01-30. UIS.
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