Akuttmedisinsk Forskningsprogram (SAR)

2012-2016

Oppsummering pr mai 2016

NORSK LUFTAMBULANSE

Universitetet i Stavanger

Stavanger University Hospital
Stavanger Hospital Trust

Universitetsfondet for Rogaland AS

The Laerdal Foundation for Acute Medicine

Executive Summary

Formålet: SAR («Akuttmedisinsk forskningsprogram») har gått fra idemyldring og planlegging i 2011 til konkrete og flotte resultater for de 6 involverte forskerne per mai 2016.

Formålet med SAR fra 2012-2016 har vært å gjennomføre forskning (PhD plattformen Helse & Medisin) og bidra til høyere utdanning innen de tre følgende områder for dermed å understøtte etableringen av et fremtidig Helsefakultet ved UiS:

1. *Simuleringsbasert utdanning/læring & implementering*, med Hege Ersdal SUS/UiS, Britt Sætre Hansen UiS/SUS, Sissel Husebø UiS/SUS og Conrad Bjørshol SUS/UiB i bresjen.
2. *Avanserte prehospital akuttmedisinske tjenester*, med Per Kristian Hyldmo og Wenche Mathisen fra SNLA.
3. *Hjertestansforskning* med Conrad Bjørshol.

Resultater:

Forskningsprogrammet har bidratt til følgende:

- 3 er blitt 1. amanuensis (Conrad Bjørshol v/ UiB; Sissel Husebø v/UiS; Hege Ersdal v/UiS).
- 1 er blitt Professor (Britt S Hansen v/UiS).
- 53 bidrar i hht undervisningsaktiviteter
- 25 PhD kandidater veiledes (hoved/bi-)
- 19 Masters studenter veiledes
- 146 gjennomførte foredrag/posters/abstracts/workshops på konferanser og møter
- 85 antall publikasjoner

Forskningsprogrammet avsluttes våren 2017.

SAR FORSKERNE

Conrad Bjørshol, 1. Amanuensis UiB/SUS
s. 4-6

Sissel E. Husebø, Postdoc UiS/SUS
s. 7-8

Britt Sætre Hansen, Professor UiS/HSN/SUS
s. 9-11

Wenche Mathiesen, PhD kand.
UiS/SNLA/SUS
s. 12-13

Per Kristian Hyldmo, PhD kand. HSF/SNLA
s. 14-15

Hege L Ersdal, 1. Amanuensis UiS/SUS
s. 16-21

Conrad Bjørshol, 2012-2016

(Bilde fra European Resuscitation Academy mars 2014, SAFER/Stavanger)

Stilling:

Postdoc 50% fra april 2012,
1. amanuensis ved K1, Universitetet i Bergen fra 09.2014,
Overlege Anestesiavdelingen SUS 50%

Hovedprosjektområder:

Forbedring av overlevelse etter stans: Feiltreanalyse i Kjeden som Redder Liv, in situ stans team simulering, kvalitet i brystkompresjoner, brystkompresjonsmaskin, norsk gruppe for RCT om stans
Etikk og beslutningstaking i intensivmiljø; Tverrprofesjonell trening for studenter; Simulering

Undervisning/Veiledning:

- Hovedveileder for Wenche Mathisen, PhD stipendiat SNLA, UiS
- Biveileder for Anne Strans Finstad, OUS, PhD kandidat ved UiO (jan.2017)
- Biveileder for Gry Sautter, SSAI kandidat i intensivmedisin
- Medisinsk fagansvarlig for SAFER Offshore simuleringskurs 2008-2012
- Fasilitator Simulering SAFER Offshore kurs til august 2014
- Medisinsk leder for trinn 2 kurs for ambulansepersonell i Helse Stavanger 2007-2013
- Kursleder European Resuscitation Academy SAFER mars 2014
- Ansvarlig for hospitering i prehospital akuttmedisin for legestudenter fra Ungarn 2014-nå
- Kursleder SAFER Studenter, inter-profesjonell kursdag for UiB med.stud, UiS spl.stud, SUS amb.stud 2014-nå
- Kursleder: Intro til Anestesi for UiB med.stud fra 2012-nå

Artikler publisert i peer-review tidsskrifter:

Mathiesen WT, Bjørshol CA, Braut GS, Søreide E. (under review) Exploring how lay rescuers overcome barriers to provide cardiopulmonary resuscitation: a qualitative study. *Prehospital and Disaster Medicine.*

Mathiesen WT, Bjørshol CA, Braut GS, Søreide E. (in press) Reactions and coping strategies in lay rescuers who have provided CPR to out-of-hospital cardiac arrest victims: a qualitative study. *BMJ Open.*

Aase I, Aase K, Dieckmann P, Bjørshol CA, Hansen BS. (2016) Interprofessional communication in a simulation-based team training session in healthcare: A student perspective. *J Nurs Educ Prac 6*(7):91-100.

Bjørshol CA, Sollid S, Flaatten H, Hetland I. Mathiesen W, Søreide E. (2016) Great variation between ICU physicians in the approach to making end-of-life decisions. *Acta Anaesthesiol Scand 60*(4):476-84.

Qvindesland SA, Bjørshol CA, Aase I, Rossavik B, Kluge M. (2015) Å skape fremtidens tverrprofesjonelle helseteam. *Tidsskr Nor Legeforen;135*:2138

Husebø SE, Bjørshol CA, Rystedt H, Friberg F, Søreide E. (2012) A comparative study of defibrillation and cardiopulmonary resuscitation performance during simulated cardiac arrest in nursing student teams. *Scand J Trauma Resusc Emerg Med 20*:23.

Bjørkli CA, Øvergård KI, Bjørshol CA, Myklebust H, Hoff T. (2012) Effects of socio-emotional stressors on ventilation rate and subjective workload during simulated CPR by lay rescuers. *Applied Ergonomics 43*:799-802.

Andre publikasjoner:

Bjørshol, CA, Lindner TW, Østebø O et al. It takes a system to save a victim. The Stavanger Experience with the Utstein Formula for Survival. Ambulance Today April 2014 http://www.ambulancetoday.co.uk/April2014/#/10/

Mathiesen W, Bjørshol CA, Søreide E. (mai 2014) Do bystanders need follow-up after performing CPR? Resuscitation 2014, Bilbao, mai 2014, *Resuscitation 01/2014*;85:S5.

Foredrag kongresser:

Challenges met by clinicians (invitert foreleser). SSAI 2015, Reykjavik, juni 2015

Bjørshol CA, Strømme T, Bodsberg K. *MIT og SBAR, systemer for å se det viktige tydelig.* NSFLIS Fagkongress Stavanger, september 2014.

Pasientsikkerhet i akuttmedisin. Akuttmedisinsk Seminar, Oslo, august 2014

Decision making – yet another obstacle for survival. Nordic Conference on Disaster Mitigation, Stavanger, september 2013

Kommunikasjon i akutte situasjoner mellom helsepersonell. Den nasjonale legevaktskonferansen, Sandnes, september 2013

Safer practices – åpningsseremonien til SESAM 2012, Stavanger, juni 2012

Commercial external customers – a simulation challenge. SESAM 2012, Stavanger, juni 2012

Difficult ethical decision-making in the ICU can be trained by simulation. SESAM 2012, Stavanger

Workshops kongresser

SSAI juni 2015: 4 ulike simuleringsstasjoner (urolig hodeskadepasient, nakke-/ryggskade-stabilisering, akutt section med dårlig barn, ultralyd FAST-undersøkelse), Reykjavik

SESAM Belfast juni 2015: *Hit me baby one more time! The power of repetition!* (Qvindesland, Bjørshol, Vatne, Linde, Bergby, Folkvord, Engevik SUS) **PRIS BESTE WORKSHOP****

NSFLIS Fagkongress sept 2014 Stavanger. Simuleringssesjoner (Bjørshol, Thingsaker, Tjessem SAFER/SUS)

SESAM 2012: *Check out or knowledge development? How to deal with the observations from simulations*.

Postere kongresser:

Resuscitation 2012, Vienna: *Why do bystanders initiate CPR in Norway?* (WTM, SH, CB, ES)

SSAI 2013, Turku: *End-of-life decisions: A new area for simulation-based training?* (CB, SS, HF, IH, WTM, ES)

SSAI 2013, Turku: *Small simulation based sessions versus plenary interactive sessions during a medical congress to highlight ethical challenges in intensive care.* (SS, CB, HF, ES)

ProPEL Conference 2014: *Developing and evaluating an interprofessional simulation based training session in Norway.* (IA, BSH, CB, SR)

Resuscitation Science Symposium 2014: *Bystanders need follow-up after performing cardiopulmonary resuscitation.* (WTM, CB, ES)

European Fed of CC Nursing 2015: *Experiences of hand-over situations in an intensive care setting. (BS*H, CB)

Postresuscitation Care Lund 2015: *Concerns and psychological reactions among CPR providers (*WTM, CB, ED*) & Is there a lower threshold for withdrawal of life supportive therapy* (CKA, WTM, CAB, ES)

Øvrig:
Deltatt på: Utstein møte om Global Resuscitation Alliance juni 2015 & Helsedirektoratets Rådslag om felles kompetansemoduler I spesialistutdanning av leger mars 2015;
Peer Reviewer: *Resuscitation; Scandinavian Journal of Trauma; Resuscitation and Emergency Medicine, Acta Anesthesiologica Scandinavica, Pediatrics, American Journal of Cardiology, Teaching and Learning in Medicine, BMC Health Services Research, Sykepleien Forskning*;
Medlem av utdanningskomiteen i Scandinavian Society for Aneaesthesiology and Intensive Care fra 2013;
Vararepresesntant til ERCs Gen. Ass. 2006-2015;
Vararepresentant i Norsk Resuscitasjonsråd fra 2005

Sissel E. Husebø, 2013-2016

(Bilde: Aksjonsforskning ved Triage, Akuttmottaket SUS vår 2016)

Stilling:
Postdoctor, Univ. of Stavanger
Forskningskoordinator (20%) v/ Kir. Div. SUS

Hovedprosjektområder:
Klinisk Ledelse i Team: Vaktleger, Vaktledere, Interprofessjonel Teamarbeid, Tillit i akuttmottak, kvalitet fra pasientenes perspektiv*; Pasienterfaringer med livsstilsendringer; Tverrprofesjonelle kliniske beslutninger*; *Legeledet Triageteam*

Undervisning/Veiledning:

- Biveileder for 2 PhD studenter: Aaberg v/UiS/NTNU/Gjøvik (feb 2015-); Eriksen UiS/SUS (sept 2014-)
- Veileder 6 Masters studenter v/UiS: Friberg (2014), Klippen (2016), Straumstøyl (2016), Aasen, (2017) og Atteskog (2017) ; v/UiA: Tønnessen 2014
- Veileding av Bachelors studenter i sykepleie UiS v/ Gastrokirurgisk avdeling SUS
- Faculty v/Klinisk Ledelse i Team MOBA/SUS
- Undervisning om simulering og pasientsikkerhet, Mastersnivå, UiS
- Veiledning for kontaktsykepleiere, pedagogiske funksjoner for sykepleiere SUS/UiS
- Institutt for Helsefag DHLR for Bachelors og Ansatte, PVK for Bachelors studenter

Artikler publiserte i peer-reviewed tidsskrifter:

Husebø, SE (submitted mars 2016). The impact of Clinical Leadership in Teams' course on quality, efficiency, responsiveness of health care services and collegial trust in the Emergency Department: Study protocol: Evaluation using trailing research. *BMJ Open*. Nivå2*

Friberg, K., Husebø, S.E., Olsen, Ø.E. & Hansen, B.S. (2016). Interprofessional trust in emergency department – as experienced by nurses in-charge and doctors on call. *Journal of Clinical Nursing* (accepted for publication 27.04.16). Nivå2*

Husebø, S.E. & Akerjordet, K. (2016). Quantitative systematic review of multi-professional teamwork and leadership training to optimize patient outcomes in acute hospital settings. *Journal of Advanced Nursing* (accepted for publication 22.04.16).

Kelly, M., Berragan, E., Husebø, S.E. & Orr, F. (2016). Simulation in Nursing Education—International Perspectives and Contemporary Scope of Practice. *Journal of Nursing Scholarship*, 2016; 48:3, 312–321. DOI: 10.1111/jnu.12208

Husebø, S.E., O'Reagan, S., Nestel, D. (2015). Reflective practice and its role in simulation. *Clinical Simulation in Nursing,* 11 (8), 368-375. DOI: http://dx.doi.org/10.1016/j.ecns.2015.04.005
PREMIE: NON RESEARCH ARTICLE OF THE YEAR IN CLINICAL SIMULATION IN NURSING 2015

Olsen, Ø.E., Husebø, S.E., Qvindesland, S.A. & Lorentzen, H. (2015). Redefining clinical leadership for team-course development. *Journal of Hospital Administration*, 4(5), 52-60. http://dx.doi.org/10.5430/jha.v4n5p52

Husebø, S.E. (2012). *Condition for learning in simulation practice: training for team-based resuscitation in nursing education. Doctoral dissertation.* University of Stavanger, Stavanger, Norway.

Husebø, S. E., Dieckmann, P., Rystedt, H., Søreide, E., & Friberg, F. (2013). The Relationship Between Facilitators' Questions and the Level of Reflection in Postsimulation Debriefing. *Simulation in Healthcare: The Journal of the Society for Simulation in Healthcare*, 8:135-142.

Husebø, S.E., Bjørshol, C.A., Rystedt, H., Friberg, F. & Søreide, E. (2012). A comparative study of defibrillation and cardiopulmonary resuscitation performance during simulated cardiac arrest in nursing student teams. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine* **20**:23, doi:10.1186/1757-7241-20-23.

Andre publikasjoner:

Husebø, S.E., Wiig, S., Guise V., Storm, M. & Sætre Hansen, B.(2016). Status of Nordic Research on Patient Safety and Quality of Care. In K. Aase and L. Schibevaag (red.). *Researching Patient Safety and Quality in Health Care.* Milton Park, Abingdon: Taylor & Francis (in press).

Ballangrud, R. & Husebø, S.E: (2015). TeamSTEPPS. In: K. Aase (red.). *Pasientsikkerhet- teori og praksis i helsevesenet,* 2. utg. Oslo: Universitetsforlaget.

Husebø, S.E. & Rystedt, H. (2015). Simulering innen helsefag. I: K. Aase (red.). *Pasientsikkerhet- teori og praksis i helsevesenet,* 2. Utg. Oslo: Universitetsforlaget.

Foredrag konferanser:

Keynote, simPro Finland 2015: *Clinical leadership in teams in the ED.*

Oral Presentation, 3rd Nordic Conference on Research in PS and Quality in Healthcare 2014: *Quality of care from the patients' perspective in the ED.*

Workshops konferanser:

Pre-conference course organizer SESAM 2012

Postere konferanser:

NSQH, Kuopio, Finland (akseptert mai 2016). *The practice of clinical leadership in the emergency department.* (SHE, ØEO)

NSQH, Finland (akseptert mai 2016). *How "The Systems Engeering Initiative for Patient Safety" can inform interprofessional teamwork in healthcare*. (RB, SHE)

Sykepleieforskning i tiden-betydning for fremtidens helsetjeneste (8-9.06.2015) *Utvikling og implementering av kvalitetsindikatorer på munnhygiene.* (EHJ, SEH)

Sykepleieforskning i tiden-betydning for fremtidens helsetjeneste (8-9.06.2015) *Pasienters mestring av psykososiale utfordringer to år etter Gastric bypass operasjon.* **BEST POSTER PRESENTATION** (SEH, MN, ÅT, RJF)

4th Swiss Conference on Standardized Patients and Simulations (SPSIM) Bern, Switzerland (2014) *Development and implementation of a pilot simulation-based training program in Clinical Leadership in Teams in the Emergency Department.* (SHE, ØEO, SAQ, HL)

Øvrig:

Editorial Board, SESAM: *Advances in Simulation* (2015-); Organizing Committee: 3. Nordisk konferanse om forskning I Pasientsikkerhet og Kvalitet 2014 Stavanger; Scientific Committee: SESAM 2012, Stavanger

NB: Synergieffekter

Prosjekt: Legeledet triageteam i akuttmottak. Sissel er medforkser sammen med Øystein Mjelva, PhD stip. v/UiB, og Britt Sætre Hansen, Professor v/ UiS/SUS.

Prosjekt: Evaluering av tverrprofesjonelt klinisk beslutningsverktøy for å bedre progresjon og prioritering… Sissel er forskningsansvarlig, sammen med Øystein E Olsen MOBA/SUS, og Straumstøyl og Klippen SUS/Sandnes Legevakt v/UiS

Prosjekt: Evaluering av et kurs i Klinisk Ledelse i Team. Sissel er forskningsansvarlig sammen med Øystein E Olsen MOBA/SUS, og Qvindesland og Lorentzen medarbeidere SUS/SAFER

Britt Sætre Hansen 2012-2015

(Bilde: 22.04.16 med Professor Granheim (til venstre) fra Umeå Univ, v/UiS symposium om kvalitativ forskning)

Stilling:

2012-2014: 100% Postdoc ved UiS, 20% forsker ved SUS
2014-nå: 50% Professor ved HSN/ Buskerud og Vestfold Univ.
2015-nå: 50% Professor ved UiS og 20% klinisk rådgiver 2M Intensiv avd. / forsker ved SUS

Hovedprosjektområder:

Handover mellom helsepersonell til og fra Intensivavdeling, fra akuttmottak; *Interprofesjonel tillit*, *Interprofesjonel utdanning; Implementering av mobilt intensiv team med aksjonsforskning; Pasientopplevelser* med søvnapnø, og etter opphold på intensivavdeling

Undervisning/Veiledning:

- Arbeidsgruppe for Opprettelse av Masters in Prehospital Critical Care v/ UiS
- Hovedveileder for 3 PhD kand: Klara Fridberg (v/OUS), Torunn Strømme (søker UiS fra 2016), Kjersti Henriksen (v/HSN, 2016-)
- Biveileder for 5 PhD kandidater: Ingunn Aase 2013-16 (submitted 20.4.16) (UiS), Kristian R Odberg (Gjøvik Univ) 2015-18; Lise S Beyene (UiS, 2016-2019), Elin Salomensen (UiS, 2016-2019); Siri Olsen (UiS 2016-)
- Veileder for 10 Masters kandidater: *Masters AIO*: Øvrebø (2016), Kristin (2016), Landmark (2016); *Masters Helsevitenskap*: Qvindesland (2017), Wathne (2016), Khajavi (2015), Bjørnå (2015), Fridberg (2014), Lapin (2014), Bodsberg (2013), Strømme (2013)
- Undervisning v/UiS: Kvalitativ Forskningsmetode v/Masters i Helsevitenskap & AIO/Kreft (2011-)
- Undervisning v/HSN: Forskningsmetodologi og kvalitativ forsk.metode v/Masters for Jordmødre (Høst 2014-)
- Undervisning v/ UiS Masters i Pre-hospital Critical Care: Kommunikasjon (2014-)
- Undervisning v/UiS Masters AIO: Viktigheten av akademisk kunnskap i sykepleie (august 2014-)
- Undervsining v/UiS: PhD nivå: Content Analysis i metode og design (2014)
- Undervsining v/HSN, v/Masters i AIO: Forsknings etikk (2014-)
- Undervisning v/UiS: Kvalitativ forskningsmetoder i Masters i Pre-Hospital Critical Care (2014-)
- Koordinator og underviser for PhD Symposium om Implementering, v/UiS mars 2016

Artikler publisert i peer-review tidsskrifter:

Hansen BS, Rørtveit K, Leiknes I, Morken I, Testad I, Joa I, Severinsson E (2012). The Experience of Uncertainty – A Synthesis to guide Nursing Practice and Research. *Journal of Nursing Management 20*(2): 266-277.

Dyrstad DN, Hansen BS, Gundersen EM. (2012). Factors that influence user satisfaction: tracheotomised home mechanical ventilation users' experiences. *Journal of Clinical Nursing 22 (3-4)*. 331-338.

Aase I, Hansen BS, Aase K (2014). Norwegian nursing and medical students' perception of interprofessional teamwork: a qualitative study. *BMC Medical Education 14*: 170.

Rørtveit K, Hansen BS, Leiknes I, Testad I, Joa I, Severinsson E (2015). Patients' experiences of trust focusing on nursing relationship – a qualitative literature review. *Open Journal of Nursing 5*:

195-209.

Fridberg K, Husebø S, Evjen Olsen Ø, Hansen BS. (akseptert – mai 2016). *Interprofessional trust in somatic emergency departments- as experienced by nurses in-charge and doctors on call. Journal of Clinical Nursing* in May 2016

Aase I, Hansen BS, Aase K, Reeves S. (2016). Interprofessional education for nursing and medical students in Norway: Exploring different professional perspectives. *Journal of Interprofessional Care (30) 1*: 109-115

Aase I, Aase K, Dieckmann P, Bjørshol C, Hansen BS. (2016) Interprofessional communication in a simulation based training session in healthcare: a student perspective. *Journal of Nursing Education and Practice 6(7):* 91.

Tjoflåt I, Karlsen B, Hansen BS. (2016). Working with local nurses to promote hospital-nursing care during humanitarian assignments overseas: experiences from the perspectives of nurses. *Journal of Clinical Nursing 25 (11-12)*: 1654-1662.

Tjoflåt I, Melissa JT, Mduma E, Hansen BS, Søreide E (submitted – mai 2016). Mismatching expectations? The experiences of nurses in a low-income country when working with visiting nurses from high-income countries. Submitted to *Journal of Clinical Nursing*, May 2016

Tjoflåt I, Razaonandrianina J, Karlsen B, Hansen BS. (Submitted mai 2016). Complementary knowledge sharing: experiences from nurse students participating an educational exchange program between Madagascar and Norway. Submission to *Nursing Education Today*.

Olsen, K D, Nester M, Hansen BS (submitted mai 2016). Back to the future, ICU patients' experiences. Submitted to *Intensive and Critical Care Nursing* in May 2016

(Bokbidrag) Aase, K (red.) (2015) Tverrprofesjonelt samarbeid i helseutdanninger. *Pasientsikkerhetsboka*. Oslo: Universitetsforlaget.

(Bokbidrag) *Researching Patient Safety and Quality in Health Care*. (2016) Taylor and Francis Group (CRC Press).

Konferanser: presentasjoner, abtrakter, posterer:

- 2012 The Norwegian Nurses Organisation's (NNO/NSF) National Seminar for Nurses within Gastroenterologi in Lillehammer, 9-11 February, invited for oral presentation: *Is the quality of treatment and care dependant on who is on duty? Evidence based practice as method to improve quality and job satisfaction.*
- 2012 The Norwegian Nurses Organisation's (NNO/NSF) National Seminar for Neurological Nurses, "*Sykepleierollen i en ny tid; hva vil det si å jobbe kunnskapsbasert"*
- 2012 The organisation for retiered personnel Stavanger University Hospital, Oral presentation: "*Sykepleierollen I en ny tid"*
- 2012 The Norwegian Nurses Organisation's (NNO/NSF)'s 100 years anniversary in Oslo, poster *"Connecting Professions; Nursing and Medical students' perceptions of interprofessional teamwork."* Ingunn Aase, Britt Sætre Hansen, Karina Aase,
- 2012 The Norwegian Nurses Organisation's (NNO/NSF)'s 100 years anniversary in Oslo, poster *"The importance of competence within technical and non-technical skills; tracheotomized home mechanical ventilated (HMV) users' experiences."* Dagrunn N. Dyrstad, Britt Sætre Hansen
- 2012 The Norwegian Nurses Organisation's (NNO/NSF)'s 100 years anniversary in Oslo Evy Gundersen, Poster:*"Why volunteer as soldiers in the battle of quality improvement; a qualitative study of student supervision in an intensive care unit."* Gunhild Bjørnå, Evy Gundersen and Britt Sætre Hansen.

- 2012 NNO/NSF Nursing Managers in Community Heath Care in Haugesund: invited for oral presentation: *Hvordan motivere til kunnskapsbasert praksis*?
- 2012 NSFLIS (Norwegian Nursing Association, group of critical care nurses) in Trondheim with 2 oral presentations:"*Communication with intubated intensive care patients"* and *"Interprofessional collaboration in ICU*"
- 2013 The Nordic Conference on Implementation of Evidence-based practice. Hansen BS, Qvindesland SA, Bjørshol CA, Søreide E. Making handover in the ICU safer through simulation supported implementation of checklists, februar 2013, Poster
- 2013 National conference of Knowledge sharing (Oslo 24.okt), oral presentation
- 2013 NSFLIS Vesttfold, April, seminar, 2 oral presentations: "*Communication with intubated intensive care patients"; "Interprofessional collaboration in ICU"*
- 2013 Network for Medical Sciences, Faculty of Social Sciences, University of Stavanger, invited for oral presentation: "*Old, habits die hard; complex interventions*".
- 2013 NSFLIS Oslo, 28 May, seminar, 2 oral presentations: "*Communication with intubated intensive care patients" and "Interprofessional collaboration in ICU*"
- 2013 Høyskolen in Bergen (HIB), invited for oral presentation: "*Evidence based practice*".
- 2013 National Emergency (legevakt) Conference in Stavanger, 5th of September invited for oral presentation: «*All forståelse virker så uendeleg styrkande*»
- 2013 Christmas symposium at the University Hospital of Bergen, invited for oral presentation: "*The nursing role in a new era.*"
- 2013 Health Quality Conference, Helse Førde 16th of October, oral presentation: *Duell eller duet*
- 2013 NIR (Nettverk for nordiske kliniske forskere) Solstrand, 7-8 of March, oral presentation: *Doctoral clinical nursing researchers' translation of evidence, focusing on patients' experiences of uncertainty.*
- 2014 Oslo University Hospital, Radiumhospitalet, Oral presentation: "*Interprofessional collaboration*". 24. October.
- 2014 Regional Emergency Seminar (Legevakten), oral presentation, "Evidence based Practice", 4 of June
- 2014 National Emergency Conference (Stavanger 4. juni), oral presentation
- 2014 National conference for NSFLIS (sept.) Oral presentation
- 2014 Stavanger Psychiatric DPS, lunch seminar, oral presentation: *Evidence-based practice*
- 2015 European federation of Critical Care Nursing associations, 5th Congress in Valencia in Spain 29-31 January, with 2 accepted abstracts
- 2015 11th International Conference on Rapid Response Systems and Medical Emergency Teams (MET Conference) 2015 in Amsterdam, abstract submitted

Øvrig

Peer Reviewer in: *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine* from May 2012- ; og *Journal of Nurse Education Today*, from 2013

Med I Pasientsikkerhets-Forskningsgruppe v/HSN

Styremedlem i NOFI (Nordisk omvårdnads forskning innom intensiv vård) (2012-2018)

Wenche Torunn Mathiesen 2012-2018

Stilling:
01.01.13-nå: 50% PhD forskning, fram til april 2016, nå 70%& 30% Pre-hospital Hjertestans register SUS/RAKOS

PhD Prosjekt:
Pågående PhD studie v/UiS: *The impact of bystanders and Helicopter Emergency Medical Services on survival after out-of-hospital cardiac arrest based on current guidelines.*
Hovedveileder: Dr. Conrad Bjørshold, SUS/UiB
Biveileder: Prof. Eldar Søreide: SUS/UiB

PhD kurs gjennomført:
30/30 poeng: Etikk/Vitenskapsfilosofi, Statistikk, Metodekurs, Beslutningstaking i kritiske situasjoner - Operativ psykologi UiB

Foredrag/Undervisning:

- *Bystanders Need Follow-up after performing cardiopulmonary resuscitation.* The American Heart Association, Chicago nov. 2014 (Poster)
- *Å være en førstehjelper*. Hjertestarterdagen Stavanger oktober 2014 (Presentasjon)
- *Phd–project by Wenche T Mathiesen* SNLA i Stavanger februar 2014 (Presentasjon)
- *Local cardiac arrest registries* og *Social influence on bystander CPR rates*. ERA i Stavanger mars 2013 (To Foredrag)
- *Do bystanders need follow-up after performing CPR?* EISCM i Bilbao, Spania, mai 2014 (Oral presentation)
- *Prediction model of survival from out-of-hospital cardiac arrest based on current CPR algorithms and new post resuscitation intervention*. EPINOR, juni 2014 Tromsø (Poster)
- *Hjerte-lunge-reddere: Viktige, men sårbare ressurser.* Akuttutvalget, februar 2015 (Foredrag)
- *Lekfolk og hjerte-lungeredning*. SNLA, april 2015 (Foredrag)
- *Trenger lekfolk oppfølging etter å ha utført hjerte-lungeredning*. Skandinavisk Akuttmedisin, mars 2015 (Abstract og oral presentation)
- *Concerns and psychological reactions among CPR providers: A qualitative study*. Lund, Sverige, juni 2015 (Poster)
- *Is there a lower threshold for withdrawal of life-supportive therapy in unconscious female cardiac arrest survivors?* Lund, juni 2015 (2. Forfatter på poster)
- *Kvalitativ metode: Erfaringer med inklusjon.* UIS metodekurs høst 2015 (Undervisning)
- *Hjerte-lunge-redning: Hvordan oppleves det egentlig?* Hjertestarterdagen, SUS, oktober 2015
- *Hjerte-lungeredning: Enkelt, men komplisert* . AMK, SUS, nov. 2015 (To foredrag)
- *Hjerte-lungeredning: Enkelt, men komplisert* AMK, SUS, januar 2016 (Foredrag)
- *Out-of-hospital cardiopulmonary resuscitation: A simple, yet complicated task* Stipendiatsamling, Århus, 2016
- *Hjerte-lungeredning: Enkelt, men komplisert*. Jondal kommune, 2016
- *Sosial innflytelse på HLR*. SAFER 18. des. 2013
- *Lekfolk og hjertestans*. SAFER 26. og 27. august 2013

- *Er kollektiv forutsigbarhet viktig for på gi HLR.* 04.05.2013 Forskningens Hus, Stavanger
- *Lekfolk og hjertestans: Er kollektiv forutsigbarhet viktig for å gi HLR*? Ambulanseforum, Oslo, 01.10.2013
  Lekfolk og hjertestans. Solamøte for kardiologisk avdeling. 23.11.2013

Delprosjekter i Phd: Publikasjoner/framgang:

1. Mathiesen WT, Bjørshol CA, Braut GS, Søreide E. (under review) Exploring how lay rescuers overcome barriers to provide cardiopulmonary resuscitation: a qualitative study. *Prehospital and Disaster Medicine.*
2. Mathiesen WT, Bjørshol CA, Braut GS, Søreide E. (in press) Reactions and coping strategies in lay rescuers who have provided CPR to out-of-hospital cardiac arrest victims: a qualitative study. *BMJ Open.*
3. Mathiesen WT, Søreide E, Kvaløy JT, Bjørshol CA. (Under arbeid) Cardiac Arrest in Rural vs. Urban Areas.
4. Bjørshol CA, Sollid S, Flaatten H, Hetland I, Mathiesen WT, Søreide E. (2016) Great variation between ICU physicians in the approach to making end-of-life decisions. *Acta Anaesthesiol Scand. 2016 Apr 60*(4):476-84.
5. Lindner T, Vossius C, Mathiesen WT, Søreide E. (2014) Life years saved, standardised mortality rates and causes of death after hospital discharge in out-of-hospital cardiac arrest survivors. *Resuscitation. 2014 May*: *85*(5):671-5.
6. Lindner TW, Søreide E, Nilsen OB, Torunn MW, Lossius HM. (2011) Good outcome in every fourth resuscitation attempt is achievable--an Utstein template report from the Stavanger region. *Resuscitation Dec 82*(12):1508-13.
7. Psychological impact in first responders after performing cardiopulmonary resuscitation on out-of-hospital cardiac victims. Fase 2 (Planlegging), sammen med SUS, og Statistiker Jo Røislien SNLA

Per Kristian Hyldmo 2012-2017

(Bilde: På jobb I Kristiansand med stabiliserings verktøy – forskningstema)

Stilling:
50% PhD tid og 50% Overlege ved HSSF Kristiansand/SNLA

PhD Prosjekt:
Basic Airway Management in Unconscious Trauma Patients - Current Evidence for Benefit and Harm with a Special Focus on the Lateral Trauma Position
Hovedveileder: Prof. Eldar Søreide, SUS, UiB
Biveiledere: Sr. Forsker Gunn E. Vist, Nas. Kunnskapssenter for Helsetjenesten, Oslo; Prof. Mary Beth Horodyski, Dir. of Research, Univ of Florida.
«Jeg arbeider nå med sammenskriving og planlegger å være ferdig med den innen utgangen av juni 2016. Disputas ultimo 2016?»

PhD kurs gjennomført:
34/30 poeng tatt: Forskningsfilosofi og med. Etikk (UiS), Systematisk oversikt, metaanalyser osv. v/UiO; Forskningsmetoder v/UiS, Innføring i statistikk del 1 og 2 v/UiO/DNLF; Godkjent spesialitet i anestesiologi.

Foredrag/Undervisning:
- Diverse undervisning, master AIOB UiA, & div. på Paramedicutdanning, UiS
- *Traumepasienten – prioriteres luftvei før columnaskade?* Stormøde for Akutlæger og Lægeassistenter, Region Hovedstaden i Danmark, Herlev Hospital 27.05.2014
- *Bevisstløs etter hodeskade - prioriteres luftvei før nakke-/ryggskade?* "Akuttmedisinsk frokost", åpent SNLA-arrangement under Arendalsuka, 13.08.14
- *Hodeskadepasienten- luftveishåndtering og bruk av nakkekrave.* SNLA nasjonal KIA-samling (instruktører fra helseforetak, KIA=kompetanse i ambulansetjenesten) 25.08.2014
- *Learning from the dead: Improving safety while placing unconscious trauma patients in various lateral positions.* Hyldmo PK, Conrad BP, Dewayne N, Dubose N, Røislien J, Prasarn, M, Søreide E, Rechtine II, G, Horodyski MB. Abstract presented at London Trauma Conference Dec. 2013.
- *Spinal Immobilisation reconsidered*, lecture, London trauma conference 2015
- Clotting for dummies, lecture, London trauma conference 2015
- *Om nasjonal prosedyre for prehospital stabilisering av columna* Ambulanseforum, 2015
- *Om traumesideleie og nasjonal prosedyre for prehospital stabilisering av columna* Euro-PHTLS 2016 (juni 2016)

Delprosjekter i Phd: Publikasjoner/framgang:
1. Hyldmo, P. K., G. Vist, A. C. Feyling, L. Rognås, V. Magnusson, M. Sandberg and E. Søreide (2015). Is the supine position associated with loss of airway patency in unconscious trauma patients? A systematic review and meta-analysis. *Scand J Trauma Resusc Emerg Med* 23: 50.
2. Hyldmo, P. K., G. E. Vist, A. C. Feyling, L. Rognas, V. Magnusson, M. Sandberg and E. Soreide (2015). Does turning trauma patients with an unstable spinal injury from the supine to a lateral position increase the risk of neurological deterioration? - A systematic review. *Scand J Trauma Resusc Emerg Med 23*: 65.

3. Hyldmo PK. Horodyski, BP, Conrad, BP, Dubose, DN, Roislien, J, Prasarn, M, Rechtine II, GR, Søreide E (2016). Safety of the lateral trauma position in cervical spine injuries: a cadaver model study. *Acta Anaesthesiol Scand.*
4. (Innsendt) Hyldmo PK, Horodyski MB, Conrad BP, Aslaksen S, Røislien J, Prasarn M, Rechtine II, GR, Søreide E (innsendt 2016). Injury: Motion in an unstable cervical spine injury: A cadaver study of the logroll versus the lateral trauma and recovery positions.

Annen publisering

Faglig leder, arbeid på oppdrag fra Nasjonal kompetansetjeneste for traumatologi og Kunnskapssenteret. *Nasjonal fagprosedyre for prehospital stabilisering av columna.* http://traumatologi.no/aktuelt/ny-prosedyre-for-stabilisering-ved-mulig-nakke-eller-ryggskade/

Hyldmo, PK, Conrad, B, Dubose, D, Roislien, J, Prasarn, M, Soreide E, Rechtine II, G, Horodyski MB (2014). Learning from the dead: improving safety while placing unconscious trauma patients in various lateral positions. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine 22(Suppl 1): O4.*

DelRossi GD, Dubose, N, Scot BP, Conrad BP, Hyldmo PK, Rechtine II, GR, horodyski M (2014). Motion produced in the unstable cervical spine by the HAINES and lateral recovery positions. *Prehosp Emerg Care 18(4)*: 539-543.

Langvad S, Hyldmo PK, Nakstad AR, Vist GE, Sandberg M. (2013). Emergency cricothyrotomy--a systematic review. *Scand J Trauma Resusc Emerg Med.31:*21:43

Fattah, S., Ekas GR, Hyldmo PK, Wisborg T (2011). The lateral trauma position: what do we know about it and how do we use it? A cross-sectional survey of all Norwegian emergency medical services. *Scand J Trauma Resusc Emerg Med 19*: 45.

Rehn M, Hyldmo PK, Kurola J, Magnusson V, Kongstad P, Rognås L, Juvet L, Sandberg M.(akseptert for publisering 2016). Scandinavian clinical practice guideline on pre-hospital airway management. *Acta Anaesthesiologica Scandinavica*.

Planlagte studier og publikasjoner

- Om nye, nasjonale retningslinjer for prehospital stabilisering av columna. Planlagt innsendt til Annals of Emergency Medicine (USA). Snart klar for innsending(Fase 7 av 9).
- Effekt av vakuummadrasser på kvalitet av CT-undersøkelse. Blindet studie av bildekvalitet ved bruk av kalibreringsdummy. Sørlandet sykehus Kristiansand. Arbeider med protokoll (Fase 2-3 av 9).
- Bevegelse i ustabilt nakkebrudd under påsetting av nakkekrage og log-roll, standard nakkekrage vs. X-collar. Kadaverstudie, mine data fra opphold hos forskningsgruppa i USA
    - Innsendt abstract til The Cervical Spine Research Society, Toronto 2016 (Fase 7 av 9)
    - Full publikasjon planlagt

Hege Ersdal, 2012 - 2017

(Bilde fra Tanzania)

Stilling:

1. amanuensis UiS (20%), Anestesilege SUS (20%), Forsker (80%)

Hovedprosjektområder:

SAFER Births; *Bundle of Care Premature Project Tanzania*; *Neonatal Supraglotisk luftveis RCT Uganda/Mozambique; Implementering av Helping Babies Breathe TZ*; *Kvalitativ evaluering av nyfødt resusitering v/SUS*; *Helping Mothers Survive – TZ og Kenya; Hjerte og respirasjons monitorering SUS/UiS.*

Undervisning/Veiledning:

- Hovedveileder 5 PhD kandidater v/UiS: Linde (2017), Mdoe (2018), Mduma (2017), Moshiro (2018), Kamala (UiS *hvis finansiering* -i oppstart)
- Biveileder 8 PhD kandidater: Thallinger (UiO-2017), Vu (UiS-august 2016), Holte (UiO, i oppstart), Lafontan (UiS hvis finansiering – i oppstart); Pejovic (UiB), Bjorland (UiS høst 2017 *hvis finanisering*-i oppstart), Prytz (UiS høst 2017 *hvis finanisering*-i oppstart), Nelissen (Athene Univ. Amsterdam 2014)
- Biveileder 3 Masters studenter UiS: Tjelmeland 2012, Aasen-Engebretsen 2011, Andersen 2011
- Delansvarlig for Introperioden for LiS leger SUS v/Anestesiavdelingen SUS 2011 – 2014
- Medlem av Utdanningskomite Anestesiavd. SUS 2004 – 2009 and 2013
- Leder for Utdanningskomite, Anestesiavd. SUS 2009-2013

Artikler publisert i peer-reviewed tidsskrifter:

Thallinger M, **Ersdal H,** Morley C, Purington C, Gomo Ø, Mduma E, Eilevstjønn J, Størdal K. (under review). Neonatal bag and mask ventilation on a manikin model with two novel PEEP valves. *Arch Dis Child Fetal Neonatal*

Linde J, Eilevstjønn J, Øymar K, **Ersdal H**. (under second review). Feasibility of a prototype Newborn Resuscitation Monitor measuring heart rate and ventilator parameters. *BMC Research Notes*

Ellen Nelissen, **Hege Ersdal**, Estomih Mduma, Bjørg Evjen-Olsen, Jos Twisk, Jacqueline Broerse, Jos van Roosmalen, Jelle Stekelenburg (Submitted). The impact of obstetric simulation-based training on clinical behavior and patient outcome. *BJOG*

Huyen Vu, Trygve Eftestøl, Kjersti Engan, Samwel Jatosh, Simeon Kusulla, **Hege Ersdal**. (Submitted). Automatic classification of resuscitation activities on birth asphyxiated newborns using acceleration and ECG signals. *Biomedical Signal Processing and Control*

Linde J, Perlman J, Øymar K, Francis F, Eilevstjønn J, Shultz J, **Ersdal H**. (In press). The normal heart rate in newborns in the first three minutes of life; assessed by a novel ECG monitor. *Neonatology*

Vu H, Eftestøl T, Engan K, Eilevstjønn J, Yarrot LB, Linde J, **Ersdal H**. (In press). Signal Processing Platform for Clinical Data Generation during Manual Ventilation on Newborns. *IEEE Journal of Biomedical and Health Informatics*

Perlman J, Msemo G, **Ersdal H**, Ringia P. (In press). Designing and implementing the Helping Babies Breathe program in Tanzania - A Country Wide Initiative. *Pediatric Intensive Care, Global Health Issue* 2015.

Ersdal H, Linde J, Auestad B, Mduma E, Lyanga S, Svensen E, Perlman J. (2015). Cord Clamping in Relation to Breathing or Ventilation among Depressed Infants and 24-hour Outcome. *BJOG*, 24 December 2015. DOI: 10.1111/1471-0528.13778

Wyllie J, Perlman J, Kattwinkel J et al. (2015). Part 7: Neonatal Resuscitation: 2015 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations. *Resuscitation 2015;95*:e169-201.

Perlman J, Velaphi S, **Ersdal H**, Gadhia M. (2015). Antenatal corticosteroids for preterm births in resource limited settings. Lancet 2015;385:1944

Perlman J, Wyllie J, Kattwinkel J et al. (2015). Part 7: Neonatal Resuscitation: 2015 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations.

Circulation 2015;132: S204–S241. DOI: 10.1161/CIR.0000000000000276.
Perlman J, Wyllie J, Kattwinkel J et al. (2015). Part 7: Neonatal Resuscitation: 2015 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations (Reprint). *Pediatrics 2015*, Volume 136/ISSUE Supplement 2. DOI:10.1542/peds.2015-3373D
Thallinger M, **Ersdal H**, Eilevstjønn J, Ombay C, Størdal K. (2015). Manikin ventilation comparing new upright neonatal resuscitator to standard equipment. *Arch Dis Child Fetal Neonatal* 2015;0:F1-F5. DOI:10.1136/archdischild-2015-308754
Ellen Nelissen, **Hege Ersdal**, Estomih Mduma, Bjørg Evjen-Olsen, Jacqueline Broerse, Jos van Roosmalen, Jelle Stekelenburg (2015). Helping Mothers Survive Bleeding After Birth: retention of knowledge, skills, and confidence nine months after training. *BMC Pregnancy and Childbirth 2015*; 15:190-197. DOI 10.1186/s12884-015-0612-2
Mduma E, **Ersdal H,** Svensen E, Kidanto H, Auestad B, Perlman J. (2015). Frequent brief on-site simulation training and reduction in 24-hour neonatal mortality – an educational intervention study. *Resuscitation: 93*:1-7
Kidanto H, Msemo G, Mmbando D, Rusibamayila N, **Ersdal H**, Perlman J (2015). Predisposing Factors Associated with Stillbirths in Tanzania- Opportunities for Prevention. *Int J Gynaecol Obstet* 2015; 130: 70-73
Ersdal HL, Linde J, Mduma ER, Auestad BH, Perlman J. (2014) Neonatal Outcome Following Cord Clamping After Onset of Spontaneous Respiration. *Pediatrics* 2014; 134:265-72
Vossius C, Lotto E, Lyanga S, Mduma E, Msemo G, Perlman J, **Ersdal HL**. (2014) Cost-effectiveness of the "Helping Babies Breathe" program in a rural hospital in Tanzania. *PLOS One* 2014; DOI: 10.1371/journal.pone.0102080.
Ersdal HL, Singhal N (2013). Resuscitation in Resource-limited Settings. Invited Review article. *Semin Fetal Neonatal Med*. 2013 Dec;18(6):373-8. doi: 10.1016/j.siny.2013.07.001
Ersdal HL, Vossius C, Bayo E, Mduma E, Perlman JM, Lippert A, Søreide E. (2013). A one-day "Helping Babies Breathe" Course Improves Simulated Performance but not Clinical Management of Neonates. *Resuscitation* 2013; 84:1422-1427.
Nelissen EJT, **HL Ersdal**, D Østergaard, ER Mduma et al.(2013). Helping Mothers Survive Bleeding After Birth: An Educational Intervention Study of Simulation-Based Training in a Low-Resource Setting. *Acta Obstet Gynecol Scand* 2013; doi: 10.1111/aogs.12321.
Nelissen EJT, E Mduma, **HL Ersdal**, B Evjen-Olsen, J van Roosmalen, J Stekelenburg.(2013). Maternal near miss and mortality in a rural referral hospital in northern Tanzania: a cross-sectional study. *BMC Pregnancy and Childbirth* 2013; 13:141
Nelissen EJT, E Mduma, JEW Broerse, **HL Ersdal**, B Evjen-Olsen, J van Roosmalen, J Stekelenburg (2013). Applicability of the WHO Maternal Near Miss Criteria in a Low-Resource Setting. *PLOS One* 2013; doi: 10.1371/journal.pone.0061248.
Msemo G, Massawe A, Mmbando D, Mwizamuholya D, **Ersdal HL**, Perlman J. (2013) Newborn Mortality and Fresh Stillbirth Rates in Tanzania After Helping Babies Breathe Training. *Pediatrics* 2013; 131: 353-60
Ersdal HL, Mduma E, Svensen E, Sundby J, Perlman JM (2012). Intermittent Detection of Fetal Heart Rate Abnormalities Identify Infants at Greatest Risk for Fresh Stillbirths, Birth Asphyxia, Neonatal Resuscitation, and Early Neonatal Deaths in a Resource Limited Setting. *Neonatology* 2012; 102:235-42
Ersdal HL, Mduma E, Svensen E, Perlman JM (2012). Birth Asphyxia: A Major Cause of Early Neonatal Mortality in a Tanzanian Rural Hospital. *Pediatrics* 2012; 129:1238-43.
Ersdal HL, Mduma E, Svensen E, Perlman JM. (2012). Early initiation of basic resuscitation interventions including face mask ventilation may reduce birth asphyxia related mortality in low-income countries. *Resuscitation* 2012; 83:869-73.

Andre publikasjoner:

Vu H, Eftestøl T, Engan K, Eilevstjønn J, Yarrot LB, Linde J, **Ersdal H**.(2016). Exploring the relationship between characteristics of ventilation performance and response of newborns during resuscitation. Communications in Computer and Information Science 574, *8th International Joint Conference*, BIOSTEC 2015, Springer; p275.
Huyen Vu, Trygve Eftestøl, Kjersti Engan, Joar Eilevstjønn, Ladislaus Yarrot, Jørgen Linde and **Hege Ersdal** (2015). Detection of Activities during Newborn Resuscitation Based on Short-Time Energy of Acceleration Signal. *Conference paper*, ICISP 2016.
Vu H, Eftestøl T, Engan K, Eilevstjønn J, Linde J, **Ersdal H**. (2014) Exploratory Analysis of Ventilation Signals from Resuscitation Data of Newborns. *Congress paper*, IEEE/CAS-EMB Biomedical Circuits and Systems Conference 2014.
Vu H, Eftestøl T, Engan K, Eilevstjønn J, Linde J, **Ersdal H**. (2014) Exploratory Analysis of Heart Rate Changes in Newborns to Investigate the Effectiveness of Bag-Mask Ventilation. *Congress paper*, The Computing in Cardiology 2014
Ersdal HL, When early and often counts. *The Practising Midwife*, September 2015 http://www.ingentaconnect.com/content/mesl/tpm/2015/00000018/00000008/art00004
Safer Births: Scientific Nordic, Globvac, Mars 2015
Visjon 2030: Hvordan Norge kan nå nye og ambisiøse mål for helse og utdanning globalt, 2015
Forsker for de fattigste: *Norges Forskningsråd nettsider*, Januar 2015

Helse i Vest: Presentation of Helping Babies Breathe, September 2014
Forum for Ynger Leger: Interview, June 2014
Dagens Medisin: Presentation of Helping Babies Breathe project, May 2014
Aftenbladet Plus: Story of Laerdal, HBB, Safer Births and Haydom, April 2014
Helsedepartementet – *Fellesrapport fra spesialisthelsetjenesten* 2013: Dying the Day of Birth
Ersdal HL. *Overlegen*: Global Research on Newborn Care, October 2013
Dagens Medisin: Presentation of the Safer Births project, October 2013
Tidsskriftet for den Norske Legeforening: The Marie Spångberg award, May 2013
Stavanger Aftenblad: The Marie Spångberg award, June 2013
Ersdal HL. *Bistands Aktuelt*: Discussing the Norwegian commitment to Neonatal and Maternal Global Health issues, May 2013
Forskerforum: Acute Research at Stavanger University Hospital, February 2013
NAF Forum: Presentation of the PhD, January 2013
Tidsskriftet for den Norske Legeforening: Presentation of the PhD, January 2013

Presentasjoner/foredrag konferanser:

SESAM 2016: Use of suctioning during actual neonatal resuscitations and effects on heart rate, after simulation-based "Helping Babies Breathe" training. Purington C, Haug I, Blacy L, Eilevstjønn J, Chang C, **Ersdal H**. SESAM 2016, accepted oral presentation

SESAM 2016: Video analysis of workflow during real neonatal resuscitations after simulation-based "Helping babies Breathe" training. Haug I, Purington C, Eilevstjønn J, Brunner S, Blacy L, **Ersdal H**. SESAM 2016, accepted oral presentation

PAS 2016: Ventilation volumes and changes in newborn heart rate during resuscitation. Linde J, Schulz J, Blacy L, Perlman J, **Ersdal HL**. **Ballroom Oral presentation PAS 2016.**

PAS 2016: Initial heart rate measurement and outcome at 24 hours in ventilated newborns. Linde J, Eilevstjønn J, Kusulla S, Perlman J, Kidanto H, **Ersdal HL**. Presented PAS 2016.

PAS 2016: A Bundle of Care Strategy including Antenatal Steroids Administration to Mothers at 28 to 34 Weeks Gestation, Avoidance of Hypothermia and Early Neonatal Antibiotics is Associated with a Significant Reduction in Neonatal Mortality: Preliminary Observations. Moshiro R, Kidanto H, Mlay P, Ringia P, Azayo M, **Ersdal HL**, Perlman J. Oral presentation PAS 2016.

PAS 2016: Are Fresh Stillbirths and Early Neonatal Deaths End Results of a similar process? **Ersdal HL**, Eilevstjønn J, Linde J, Jatosh S, Mduma E, Kidanto H, Perlman J. Presented PAS 2016.

PAS 2016: Relationship between fresh stillbirths, early neonatal deaths and intermittent fetal heart rate assessment. **Ersdal HL**, Mdoe P, Yecoina A, Mduma E, Perlman J, Kidanto H. Presented PAS 2016.

PAS 2016: Causes of early neonatal deaths in a rural hospital in Tanzania. Moshiro R, Mdoe P, Kidanto H, Perlman J, **Ersdal H**. Presented PAS 2016.

World Health Summit 2015: **Ersdal HL**: Delayed cord clamping: Reducing newborn mortality in sub-Saharan Africa. World Health Summit 2015, Berlin 2015

Global Maternal newborn health Conference 2015: **Ersdal HL**: Misclassification of stillbirths and implications for measuring stillbirths and early neonatal deaths. USAID Panel entitled: New Horizons in Measurement, Global Maternal Newborn Health Conference, Mexico City October 2015

Perinatale dagene 2015: Linde J, Schulz J, Blacy L, Perlman J, Ersdal HL. Ventilation volumes and changes in newborn heart rate during resuscitation. Oral presentation, Perinataldagene November 2015, Bergen, Norway

Perinatale dagene 2015: Ersdal HL, Linde J, Auestad B, Mduma E, Lyanga S, Svensen E, Perlman J. Timing of Cord Clamping in relation to start of breathing or ventilation among depressed neonates. Oral presentation, Perinataldagene November 2015, Bergen, Norway. **1st Prize award in Neonatology**

Perinatale dagene 2015: Ersdal HL, Linde J, Mduma E, Auestad B, Perlman J. Neonatal outcome following Cord Clamping After Onset of Spontaneous Respirations. Oral presentation, Perinataldagene November 2015, Bergen, Norway

FIGO 2015: Mdoe P, Mduma E, Ersdal H, Moshiro R, Perlman J, Kidanto H. Randomized controlled study comparing handheld Doppler and Pinard Fetoscope for fetal heart rate monitoring in Tanzania. Oral presentation, FIGO Vancouver October FIGO 2015.

FIGO 2015: Linde JE, Perlman J, Øymar K, Francis F, Ersdal HL. The heart rate in fresh stillbirths and early neonatal deaths requiring delivery room resuscitation. Oral Presentation FIGO, Vancouver October 2015.

PAS 2015: Mdoe P, Mduma E, Ersdal H, Moshiro R, Perlman J, Kidanto H. Randomized controlled study comparing handheld Doppler and Pinard Fetoscope for fetal heart rate monitoring in Tanzania. Presented PAS 2015.

PAS 2015: Mduma E, Ersdal HL, Kvaløy J, Søreide E, Mdoe P, Perlman J, Kidanto H, Svensen E. CUSUM statistical process control method can be used to continuously monitor the impact of health interventions and management on neonatal mortality rate. Presented PAS 2015

PAS 2015: Thallinger M, Ersdal H, Purington C, Gomo Ø, Eilevstjønn J, Morley C, Størdal K. Novel resuscitation bag and mask provide PEEP in a newborn manikin. Presented PAS 2015.

Globvac 2015: Thallinger M, Ersdal H, Purington C, Gomo Ø, Eilevstjønn J, Morley C, Størdal K. Novel resuscitation bag and mask provide PEEP in a newborn manikin. Presented Globvac 2015.

PAS 2015: Thallinger M, Ersdal H, Størdal K. Novel newborn resuscitator gives significantly less mask leakage on a manikin model. Presented PAS 2015.

Globvac 2015: Thallinger M, Ersdal H, Størdal K. Novel newborn resuscitator gives significantly less mask leakage on a manikin model. Presented Globvac 2015.

PAS 2015: Linde JE, Eilevstjønn J, Francis F, Perlman J, Ersdal HL. Neonatal heart rate in the first minutes of life measured with novel dry electrodes heart rate measurement technology. Presented PAS 2015.

Globvac 2015: Linde JE, Eilevstjønn J, Francis F, Perlman J, Ersdal HL. Neonatal heart rate in the first minutes of life measured with novel dry electrodes heart rate measurement technology. Presented Globvac 2015.

Globvac 2015: Mdoe P, Masawe S, Kidanto H, Mduma E, Ersdal H. Quality of Partogram recordings and perinatal outcomes at Muhimbili National Hospital Tanzania. Presented Globvac 2015.

Globvac 2015: Mduma E, Ersdal H, Kvaløy J, Søreide E, Mdoe P, Perlman J, Kidanto H, Svensen E. CUSUM statistical process control method can be used to continuously monitor the impact of health interventions and management on neonatal mortality rate. Presented Globvac 2015.

Global Symposium 2014: **Ersdal HL**: Helping Babies Breathe. Global symposium, Amsterdam, Holland, November 2014

Perinataldagene 2014: Linde JE, Eilevstjønn J, Francis F, Perlman J, Ersdal HL. Neonatal heart rate in the first minutes of life measured with novel dry electrodes heart rate measurement technology. Presentation Perinataldagene 2014, Norway

ASPiH 2014: **Ersdal HL**: Low-dose high-frequency simulation training – saving lives of babies on a global scale. Keynote ASPiH, Nottingham, November 2014

EAPS 2014: Thallinger M, Ersdal H, Steen PA, Størdal K. New neonatal resusitator gives more lung volume on a mannequin model. Presented EAPS (European academy of pediatric societies) 2014

Globvac 2015: Linde JE, Eilevstjønn J, Francis F, Perlman J, Ersdal HL. Neonatal heart rate in the first minutes of life measured with novel dry electrodes heart rate measurement technology. Presented Globvac 2015.

Gynae 2014: Nelissen E, Ersdal H, Mduma E, Evjen-Olsen B, Broerse J, van Roosmalen J, Stekelenburg J. WHO near miss criteria: measuring maternal morbidity. Oral presentation at the Gynae congress, Leeuwarden, the Netherlands, May 2014

SESAM 2014: Nelissen E, Ersdal H, Mduma E, Evjen-Olsen B, Broerse J, van Roosmalen J, Stekelenburg J. Retention of knowledge, skills, and confidence after simulation-based training in obstetric care. Oral presentation, SESAM Conference in Poznan, June 2014

PAS 2014: Ersdal HL, Linde J, Mduma ER, Auestad BH, Perlman J. Cord Clamping Beyond 10 seconds After Onset of Spontaneous Respirations Improves 24 hour Neonatal Outcome in a Low-Resourced Setting. **Ballroom Oral presentation PAS 2014, Canada**

PAS 2014: Vossius C, Lotto E, Lyanga S, Mduma E, Msemo G, Perlman J, Ersdal HL. Cost-effectiveness of the "Helping Babies Breathe" Program in a Rural Hospital in Tanzania. Presented PAS 2014, Canada May 2014

PAS 2014: Ersdal HL, Mduma E, Svensen E, Perlman J. Neonatal Resuscitation in a Low-resourced Setting; When Should Bag Mask Ventilation be Discontinued in a Non Breathing Infant? Presented PAS 2014, Canada

PAS 2014: Kidanto H, Msemo G, Massawe A, Ringia P, Ersdal H, Perlman JM. Intermittent Monitoring of Fetal Heart Rate with an Acoustic Fetoscope Identifies Infants at High Risk for Early Neonatal Mortality when Abnormal and Fresh StillBirths when Absent. Oral presentation PAS 2014, Canada

PAS 2014: Linde JE, Eilevstjønn J, Francis F, Perlman J,Ersdal HL. Neonatal heart rate in the first minutes of life measured with novel dry electrodes heart rate measurement technology. Presented PAS 2014, Canada

PAS 2014: Ersdal HL, Linde J, Mduma ER, Auestad BH, Perlman J. Delayed Cord Clamping after Onset of Bag Mask Ventilation does not Improve 24 Hour Neonatal Outcome in a Low-resourced Setting. Presented PAS 2014, Canada

IMSH 2014: Ersdal HL; Vossius C; Bayo E; Mduma E; Perlman J; Lippert A; Søreide E. A one-day simulation course improved simulated performance seven months later, but not clinical management. Presented IMSH 2014, US.

IMSH 2014: Mduma E, Ersdal HL, Svensen E, Perlman J. Low-dose high-frequency simulation training reduces early neonatal mortality. Oral presentation IMSH 2014, US. **Overall 1st prize award.**

Globvac 2013: **Ersdal HL**: Safer Births – Not just breakthroughs, the key is follow-through. The crucial role of alliances and implementation research in developing and implementing innovative products for improved newborn care and survival. Moderator at symposium, Globvac annual conference, October 2013, Bergen

Globvac 2013: **Ersdal HL**: Helping Babies Breathe – a teaching system. Key note presentation, European Resuscitation Council, October 2013, Krakow, Poland

Globvac 2013: Ersdal HL, Vossius C, Bayo E, Mduma E, Perlman JM, Lippert A, Søreide E. A one-day "Helping Babies Breathe" Course Improves Simulated Performance but not Clinical Management of Neonates. Presented Globvac October

2013, Bergen, Norway

Globvac 2013: E Mduma, HL Ersdal, E Svensen, JM Perlman. Low-Dose High Frequency (LDHF) Helping Babies Breathe (HBB) training reduces Early Neonatal Mortality (ENM) within 24 hours in a rural African Hospital. Presented Globvac October 2013, Bergen, Norway

Globvac 2013: HL Ersdal, E Mduma, Linde JE, JM Perlman. Helping Babies Breathe (HBB) Training is Associated with Decreased 24-hours neonatal mortality, and unchanged neonatal mortality beyond 24-hours. Presented Globvac October 2013, Bergen, Norway

Nordic Midwifery 2013: Ersdal HL, Vossius C, Bayo E, Mduma E, Perlman JM, Lippert A, Søreide E. A one-day "Helping Babies Breathe" Course Improves Simulated Performance but not Clinical Management of Neonates. Oral presentation Nordic Midwifery Congress June 2013 Oslo

Nordic Midwifery 2013: Ersdal HL, Mduma E, Svensen E, Perlman JM. Low-cost Simulation-Based Training reduces Early Neonatal Mortality. Oral presentation Nordic Midwifery Congress June 2013 Oslo

PAS 2013: Ersdal HL, Vossius C, Bayo E, Mduma E, Perlman JM, Lippert A, Søreide E. A one-day "Helping Babies Breathe" Course Improves Simulated Performance but not Clinical Management of Neonates. Presentation, PAS 2013, US.

PAS 2013: E Mduma, HL Ersdal, E Svensen, JM Perlman. Low-Dose High Frequency (LDHF) Helping Babies Breathe (HBB) training reduces Early Neonatal Mortality (ENM) within 24 hours in a rural African Hospital. Oral presentation PAS 2013, US.

PAS 2013: HL Ersdal, E Mduma, JM Perlman. Helping Babies Breathe (HBB) Training is Associated with Decreased Early Neonatal Mortality (ENM); This Positive Benefit is Reduced Due to Late Deaths (LD). Oral presentation PAS 2013, US.

PAS 2013: HL Ersdal, JM Perlman. A Five Minute Apgar Score (AS) coupled with Administration of Face Mask Ventilation (FMV) is a Surrogate for Birth Asphyxia (BA) and is Related to Early Neonatal Mortality (ENM). Presented PAS 2013, US.

SESAM 2012: Ersdal HL, Svensen E, Mduma E, Tjelmeland I, Perlman J. The Helping Babies Breathe Simulation-Based Training program Reduces Early Neonatal Mortality. Oral presentation SESAM 2012, Norway

SESAM 2012: Nelissen E, Ersdal HL, Mduma E, Olsen BE, Svensen E, Roosmalen J, Stekelenburg J. Helping Mothers Survive Bleeding after Birth: Low-cost Simulation-based Training. Oral presentation SESAM 2012, Norway

FIGO: Nelissen E, Ersdal HL, Mduma E, Olsen BE, Svensen E, Roosmalen J, Stekelenburg J. Helping Mothers Survive Bleeding after Birth: Simulation-based Training in a Rural Referral Hospital in Tanzania. Oral presentation FIGO, Rome, Italy

FIGO: Nelissen E, Ersdal HL, Mduma E, Olsen BE, Roosmalen J, Stekelenburg J. Maternal Near Miss and Mortality in a Rural Referral hospital in Northern Tanzania Using the WHO Near Miss Criteria. Oral Presentation FIGO, Rome, Italy

Workshops konferanser:

ICM 2017 Safer Births skills workshop. Linde K, Mdoe P, Myklebust H, Ersdal H. ICM 2017

Globvac Chair 2013: Ersdal HL. Safer births – not just breakthroughs, the key is follow-through; the crucial role of alliances and implementation research in developing and implementing innovative products for improved newborn care and survival. *Chair Symposium* at Globvac Congress October 2013, Bergen, Norway

Nordic Midwifery 2013: Egenberg S, Ersdal HL. Workshop on birth asphyxia and bleeding after birth – a taste of simulation training. Work-shop Nordic Midwifery Congress June 2013 Oslo

Abstracts/ Postere konferanser:

Health professional's view towards intrapartum fetal heart rate monitoring using Pinard fetoscope and Doppler in rural setting, Tanzania. Mdoe P, **Ersdal H**, Mduma E, Moshiro R, Kidanto H, Mbekenga C. Submitted ICM 2017

SESAM 2016: Factors affecting effective ventilation during newborn resuscitation after HBB training, in rural Tanzania. Moshiro R, **Ersdal H**, Mduma E, Mdoe P, Kidanto H, Mbekenga C. SESAM 2016, accepted poster

SESAM 2016: Health professional's view towards intrapartum fetal heart rate monitoring using Pinard fetoscope and Doppler in rural setting, Tanzania. Mdoe P, **Ersdal H**, Mduma E, Moshiro R, Kidanto H, Mbekenga C. SESAM 2016, accepted poster

Int Global Health Conference 2016: Neonatal outcome of resuscitated babies in a rural hospital, Tanzania. Moshiro R, Kidanto H, Perlman J, **Ersdal H.** Poster presentation UDOM 1st International Global health Conference, Tanzania, 2016

Int Global Health Conference 2016: Mdoe P, Mduma E, **Ersdal H**, Moshiro R, Perlman J, Kidanto H. Randomized controlled Study comparing handheld Doppler and Pinard Fetoscope for fetal heart rate monitoring in Tanzania. Poster presentation UDOM 1st International Global health Conference, Tanzania, 2016

Øvrig:

- Reviewer for *Pediatrics, Acta Paediatrica, PloS One*
- Evidence Reviewer for 2015 ILCOR – Neonatal Group (International Liaison Committee on Resuscitation

- Evidence Reviewer for 2020 ILCOR-Neonatal Group
- Co-chair v/ Utstein møte for Implementering av Helping Babies Survive og Helping Mothers Survive programmer (7-8. Juni 2015)
- Deltager v/ Utstein møte for implementering av best praksis til å forbedre overlevelse etter pre-hospital hjertestans (7-8. Juni 2015)
- 2015: Best presentation in Neonatology, Perinataldagene 2015
- 2014: The Publication Award at Stavanger University Hospital
- 2014: The International Meeting on Simulation in Healthcare (IMSH) 1st Place Overall Award- winning Research Abstract
- 2013: The Marie Spångberg Award

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