

# CURRICULUM VITAE

## Jan Terje Kvaløy

**Position:** Professor  
**Born:** 10.09.1970  
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### Work experience and academic degrees

2020- Distinguished educator (merittert underviser) at University of Stavanger.  
2010- Professor in statistics at University of Stavanger, Department of Mathematics and Physics.  
2000-2010 Associate professor in statistics at University of Stavanger.  
2004- Advisor in statistics at Stavanger University hospital (20% position).  
2005, nov.-des. Research stay at Centre for Advanced Study in Oslo.  
1999-2000 Associate professor in statistics at Norwegian University of Science and Technology (NTNU), Department of Mathematical Sciences (deputy).  
1999 PhD, Department of Mathematical Sciences, NTNU.  
1995-1999 Research fellow at Department of Mathematical Sciences, NTNU.  
1997-1998 Research stay at Department of Statistics, Stanford University, USA.  
1994-1995 Military service as research assistant at the Norwegian Defense Research Establishment.  
1994 Siv. ing. (master degree), in industrial mathematics, NTH (now NTNU).

### Articles in international peer-reviewed journals

1. Lindqvist BH, Kvaløy JT. New tests for trend in time censored recurrent event data. *Applied Stochastic Models in Business and Industry*. (E-pub ahead of print) doi: 10.1002/asmb.2848, 2024.
2. Kibsgaard-Petersen A, Ersdal, Ersdal HL, Kvaløy JT, Eilevstjønn J, Rettedal S. Use of newborn heart rate to determine need for resuscitation at birth. *Acta Paediatrica* (E-pub ahead of print) 2024.
3. Kamala B, Ersdal HL, Moshiro RD, Mduma E, Baker U, Guga G, Kvaløy JT, Bishanga DR, Bundala F, Marwa B, Rutachunzibwa T, Simeo J, Rutatinisibwa HF, Ndungile Y, Kayera D, Kalabamu FS, Mdoe PF. Improvements in Obstetric and Newborn Health Information Documentation following the Implementation of the Safer Births Bundle of Care at 30 Facilities in Tanzania. *Healthcare* 12; 2024.
4. Norvik A, Kvaløy JT, Skjeflo GW, Bergum D, Nordseth T, Loennechen JP, Unneland E, Buckler DG, Bhardwaj A, Eftestøl TC, Aramendi E, Abella BS, Skogvoll E. Heart rate and QRS duration as biomarkers predict the immediate outcome from pulseless electrical activity. *Resuscitation*, 185, 2023.
5. Abrahamsen EB, Jimarkon P, Kvaløy JT, Abrahamsen HB. Utilizing Students' Feedback to Ensure Quality in Teaching and Learning: A Lesson From COVID-19. *rEFLECTIONS*, 30 1-11, 2023.
6. Olsen SL, Nedrebø BSO, Strand K, Søreide E, Kvaløy JT, Hansen BS. Reduction in omission events after implementing a Rapid Response System: a mortality review in a department of gastrointestinal surgery. *BMC Health Services Research*, 23, 1-10, 2023.
7. Ersdal HL, Mdoe PF, Mduma E, Moshiro RD, Guga G, Kvaløy JT, Bundala F, Marwa B, Kamala B. "Safer Births Bundle of Care" Implementation and Perinatal Impact at 30 Hospitals in Tanzania—Halfway Evaluation. *Children*, 10, 2023.
8. Hoff GS, Bernklev T, Johnsen L, Reitsma LC, Sina D, Lauzike A, Gibbs CC, Carlsen E, Lende TH, Narvestad J, Kildahl R, Omdal R, Kvaløy JT, Söiland H. Thyroidectomy for Euthyroid Patients With Hashimoto Disease and Persisting Symptoms. *Annals of Internal Medicine* Volum 177,101-103, 2023.

9. Eliassen F, Blåfjelldal VIJ, Helland T, Hjorth CF, Hølland K, Lode L, Bertelsen BE, Janssen E, Mellgren G, Kvaløy JT, Søiland H, Lende TH. Importance of endocrine treatment adherence and persistence in breast cancer survivorship: a systematic review. *BMC Cancer* 23, 2023.
10. Kvivik I, Grimstad TB, Bårdsen K, Jonsson G, Kvaløy JT, Omdal R. High mobility group box 1 and a network of other biomolecules influence fatigue in patients with Crohn's disease. *Molecular medicine*, 29, 2023.
11. Myrseth E, Gjessing PF, Nymo LS, Kørner H, Kvaløy JT, Norderval S. Laparoscopic rectal cancer resection yields comparable clinical and oncological results with shorter hospital stay compared to open access: a 5-year national cohort. *International Journal of Colorectal Disease*, 38, 2023.
12. Skjellerudsveen BM, Omdal R, Hetta AK, Kvaløy JT, Aabakken L, Skoie IM, Grimstad TB. Less, but not gone—gluten-free diet effects on fatigue in celiac disease: a prospective controlled study. *Frontiers in medicine* 10, 2023.
13. Rettedal S, Kibsgaard-Petersen A, Kvaløy JT, Eilevstjønn J, Ersdal HL. Prevalence of bradycardia in 4876 newborns in the first minute after birth and association with positive pressure ventilation: A population-based cross-sectional study. *Archives of Disease in Childhood: Fetal and Neonatal Edition*, 2023
14. Kibsgaard-Petersen A, Ersdal HL, Kvaløy JT, Eilevstjønn J, Rettedal S. Newborns requiring resuscitation: Two thirds have heart rate  $\geq 100$  beats/minute in the first minute after birth. *Acta Paediatrica*, 112, 697-705, 2023.
15. Unneland E, Norvik A, Bergum D, Buckler DG, Bhardwaj A, Eftestøl TC, Aramendi E, Nordseth T, Abella BS, Kvaløy JT, Skogvoll E. Non-shockable rhythms: A parametric model for the immediate probability of return of spontaneous circulation. *Resuscitation*, 191, 2023.
16. Vadla MS, Mduma E, Kvaløy JT, Mdoe PF, Hhando B, Sarangu S, Michael P, Oftedal BSF, Ersdal HL. Increase in Newborns Ventilated Within the First Minute of Life and Reduced Mortality After Clinical Data-Guided Simulation Training. *Simulation in Healthcare: The Journal of the Society for Simulation in Healthcare*, 2023.
17. Njå Å, Kvaløy JT, Njå O. Modelling fire occurrences in heavy goods vehicles in road tunnels. *Fire safety journal*, 127, 2022.
18. Achour H, Thomseth VM, Kvaløy JT, Krohn JG; Utheim TP; Forsaa VA. Substantial increase in the incidence of rhegmatogenous retinal detachment in Western Norway over 20 years. *Acta Ophthalmologica*, 100, 763-768, 2022.
19. Larsen JW, Søreide K, Søreide JA, Tjosevik KE, Kvaløy JT, Thorsen K. Epidemiology of abdominal trauma: An age- and sex-adjusted incidence analysis with mortality patterns. *Injury*, 53, 3130-3138, 2022.
20. Lindtjørn B, Krohn JG, Haugstad M, Stene-Johansen I, Austeng D, Basit S, Fossen KA, Varhaug P, Kvaløy JT, Forsaa VA. Air versus Sulfur Hexafluoride Gas Tamponade for Small and Medium-Sized Macular Holes: A Randomized Noninferiority Trial. *Ophthalmology Retina*, 6, 828-834, 2022.
21. Norvik A, Unneland E, Bergum D, Buckler DG, Bhardwaj A, Eftestøl TC, Aramendi E, Nordseth T, Abella BS, Kvaløy JT, Skogvoll E. Pulseless electrical activity in in-hospital cardiac arrest – A crossroad for decisions. *Resuscitation*, 176, 117-124, 2022.
22. Rettedal S, Kibsgaard-Petersen A, Eilevstjønn J, Kvaløy JT, Bjorland PA, Lillevik HM, Haynes JC, Tysland TB, Størdal K, Holte K, Davis PG, Ersdal HL. Impact of immediate and continuous heart rate feedback by dry electrode ECG on time to initiation of ventilation after birth: protocol for a randomised controlled trial. *BMJ Open*, 12, 1-6, 2022.
23. Skjellerudsveen BM, Omdal R, Hetta AK, Kvaløy JT, Aabakken Lars, Skoie IM, Grimstad TB. Fatigue: a frequent and biologically based phenomenon in newly diagnosed celiac disease. *Scientific Reports*, 12, 2022.
24. Søiland H, Janssen E, Helland T, Eliassen FM, Hagland M, Nordgård O, Lunde S, Lende TH, Sagen JV, Tjensvoll K, Gilje B, Jonsdottir K, Gudlaugsson E, Lode K, Hagen KB, Gripsrud BH, Lind RA, Heie A, Aas T, Austdal M, Egeland NG, Bernklev T, Lash TL, Skartveit L, Kroksveen AC, Oltedal S, Kvaløy JT, Lien EA, Sleire L, Mellgren G. Liquid biopsies and patient-reported outcome measures for integrative monitoring of patients with early-stage breast cancer: a study protocol for the longitudinal observational Prospective Breast Cancer Biobanking (PBCB) study. *BMJ Open*, 12, 2022.
25. Vadla MS, Mdoe PF, Moshiri RD, Haug IA, Gomo Ø, Kvaløy JT, Oftedal BSF, Ersdal HL. Neonatal Resuscitation Skill-Training Using a New Neonatal Simulator, Facilitated by Local Motivators: Two-Year Prospective Observational Study of 9000 Trainings. *Children*, 9, 2022.

26. Vadla MS, Moshiro R, Mdoe PF, Eilevstjønn J, Kvaløy JT, Hhando B, Ersdal HL. Newborn resuscitation simulation training and changes in clinical performance and perinatal outcomes: a clinical observational study of 10,481 births. *Advances in Simulation*, 7, 2022.
27. Grimstad TB, Mære BO, Kvaløy JT, Skoie IM, Carlsen A, Karlsen LN, Aabakken L, Omdal R. The influence of disease activity on fatigue in patients with ulcerative colitis—a longitudinal study. *Scandinavian Journal of Gastroenterology*, 57, 290-297, 2022.
28. Lauvsnes MB, Zetterberg H, Blennow K, Kvaløy JT, Tjensvoll AB, Maroni S, Beyer MK, Greve OJ, Kvivik I, Alves GW, Gøransson LG, Harboe E, Hirohata S, Omdal R. Neurofilament light in plasma is a potential biomarker of central nervous system involvement in systemic lupus erythematosus. *Journal of Neurology*, 269, 3064-3074, 2022.
29. Myrseth E, Nymo LS, Gjessing PF, Kørner H, Kvaløy JT, Norderval S. Lower conversion rate with robotic assisted rectal resections compared with conventional laparoscopy; a national cohort study. *Surgical Endoscopy*, 36, 3574-3584, 2022.
30. Søreide JA, Kvaløy JT, Lea D, Sandvik OM, Al-Saiddi M, Haslerud TM, Garresori H, Karlsen LN, Gudlaugsson E, Søreide K. The overriding role of surgery and tumor grade for long-term survival in patients with gastroenteropancreatic neuroendocrine neoplasms: A population-based cohort study. *Cancer Reports*, 5, 2022.
31. Abrahamsen EB, Husebø D, Selvik JT, Kvaløy JT. Mengden av organiserte læringsaktiviteter og sammenhengen med studentenes motivasjon, egeninnsats og overordnede tilfredshet med studiet. *Nordic Journal of STEM Education*, 4, 45-57, 2021.
32. Kvivik I, Grimstad TB, Jonsson G, Kvaløy JT, Omdal R. Anti-HMGB1 auto-Abs influence fatigue in patients with Crohn's disease. *Innate Immunity*, 27, 286-293, 2021.
33. Tjensvoll AB, Lauvsnes MB, Zetterberg H, Kvaløy JT, Kvivik I, Maroni S, Greve OJ, Beyer MK, Hirohata S, Putterman C, Alves GW, Harboe E, Blennow K, Gøransson L, Omdal R. Neurofilament light is a biomarker of brain involvement in lupus and primary Sjögren's syndrome. *Journal of Neurology*, 268, 1385-1394, 2021.
34. Rettedal S, Eilevstjønn J, Kibsgaard-Petersen A, Kvaløy JT, Ersdal HL. Comparison of heart rate feedback from dry-electrode eeg, 3-lead eeg, and pulse oximetry during newborn resuscitation. *Children*, 8, 2021.
35. Vossius CE, Mduma E, Moshiro RD, Mdoe PF, Kvaløy JT, Hussein K, Lyanga S, Ersdal HL. The impact of introducing ambulance and delivery fees in a rural hospital in Tanzania. *BMC Health Services Research*, 21, 1-9, 2021.
36. Helland T, Naume B, Hustad S, Bifulco E, Kvaløy JT, Sætersdal AB, Synnestvedt M, Lende TH, Gilje B, Mjaaland I, Weyde K, Blix ES, Wiedswang G, Borgen E, Hertz DL, Janssen E, Mellgren G, Søiland H. Low Z-4OHTam concentrations are associated with adverse clinical outcome among early stage premenopausal breast cancer patients treated with adjuvant tamoxifen. *Molecular Oncology*, 15, 957-967, 2021.
37. Kvaløy J.T., Lindqvist B.H., A Class of Tests for Trend in Time Censored Recurrent Event Data. *Technometrics*, 62, 101-115, 2020.
38. Schulz J., Kvaløy J.T., Engan K., Eftestøl T., Jatosh S., Hussein K., Ersdal H., State transition modeling of complex monitored health data. *Journal of Applied Statistics*. 47, 1915-1935, 2020.
39. Søreide K., Yaqub S., Hallet J., Kvaløy J.T., Kleppe T.S., A Risk Model of Admitting Patients With Silent SARS-CoV-2, Infection to Surgery and Development of Severe Postoperative Outcomes and Death, *Annals of Surgery*, 272, 208-216, 2020.
40. Reite A., Søreide K., Kvaløy J.T., Vethrus M., Long-Term Outcomes After Open Repair for Ruptured Abdominal Aortic Aneurysm. *World Journal of Surgery*, 44, 2020-2027, 2020.
41. Skogvoll E., Nordseth T., Sutton R.M., Eftestøl T., Irusta U., Aramendi E., Niles D., Nadkarni V., Berg R.A., Abella B.S., Kvaløy J.T., Factors affecting the course of resuscitation from cardiac arrest with pulseless electrical activity in children and adolescents. *Resuscitation*. 152, 116-122, 2020.
42. Stormark K., Krarup P.M., Sjøvall A., Søreide K., Kvaløy J.T., Nordholm-Carstensen. A., Nedrebø B.S., Kørner H., Anastomotic leak after surgery for colon cancer and effect on long-term survival. *Colorectal Disease* 22, 1108-1118, 2020.
43. Grøsvik K., Tesfahun A.N., Muruzábal-Lecumberri I., Haugland G.T., Leiros I., Ruoff P., Kvaløy J.T., Knævelsrud I., Ånensen H., Alexeeva M., Sato K., Matsuda A., Alseth I., Klungland A., Bjelland S., The *escherichia coli* alkA gene is activated to alleviate mutagenesis by an oxidized deoxynucleoside. *Frontiers in Microbiology* 11, 1-17, 2020.

44. Grimstad T., Kvivik I., Kvaløy J.T., Aabakken L., Omdal R., Heat-shock protein 90 $\alpha$  in plasma reflects severity of fatigue in patients with Crohn's disease. *Innate Immunity*, 26, 146-151, 2020.
45. Guldvog I., Reitsma L.C., Johnsen L., Lauzike A., Gibbs C., Carlsen E., Lende T.H., Narvestad J.K., Omdal R., Kvaløy J.T., Hoff G., Bernklev T., Søyland H., Thyroidectomy Versus Medical Management for Euthyroid Patients With Hashimoto Disease and Persisting Symptoms: A Randomized Trial. *Annals of Internal Medicine*, 170, 453-464, 2019.
46. Mduma E., Kvaløy J.T., Søreide E., Svensen E., Mdoe P.F., Perlman J., Johnson C.A., Hussein K., Ersdal H.L., Frequent refresher training on newborn resuscitation and potential impact on perinatal outcome over time in a rural Tanzanian hospital: An observational study. *BMJ Open*, 9, 1-10, 2019.
47. Moshiro R.D., Perlman J.M., Mdoe P.F., Hussein K., Kvaløy J.T., Ersdal H.L., Potential causes of early death among admitted newborns in a rural Tanzanian hospital. *PLOS ONE*, 14, 2019.
48. Lende T.H., Austdal M., Varhaugvik, A.E., Skaland I., Gudlaugsson E., Kvaløy, J.T., Akslen L.A., Søyland H., Janssen E., Baak J.P.A., Influence of pre-operative oral carbohydrate loading vs. standard fasting on tumor proliferation and clinical outcome in breast cancer patients - a randomized trial, *BMC Cancer*, 19, 1-22, 2019.
49. Solanki P., Coppler P.J., Kvaløy J.T., Baldwin M.A., Callaway C.W., Elmer J., Association of antiepileptic drugs with resolution of epileptiform activity after cardiac arrest. *Resuscitation*, 142, 82-90, 2019.
50. Søreide J.A., Thølfen T., Karlsen L.N., Kvaløy J.T., Kørner H., Palliative surgical outcome score (PSOS) in patients treated palliatively with self-expanding metal stent (SEMS) for malignant incurable colorectal obstruction. *Surgical Oncology*, 29, 134-139, 2019.
51. Vennesland J.B., Søreide K., Kvaløy J.T., Reite A., Vetrhus M., A Population-Based Study of Incidence, Presentation, Management and Outcome of Primary Thromboembolic Ischemia in the Upper Extremity. *World Journal of Surgery*, 43, 2320-2327, 2019.
52. Ajmi S.C., Advani R., Fjetland L., Kurz K.D., Lindner T.W., Qvindelund S.A., Ersdal H.L., Goyal M., Kvaløy J.T., Kurz M., Reducing door-to-needle times in stroke thrombolysis to 13 min through protocol revision and simulation training: A quality improvement project in a Norwegian stroke centre. *BMJ Quality and Safety*, 28, 1-10, 2019.
53. Bårdsen K., Brede C., Kvivik I., Kvaløy J.T., Jonsdottir K., Tjensvoll A.B., Ruoff P., Omdal R., Interleukin-1-related activity and hypocretin-1 in cerebrospinal fluid contribute to fatigue in primary Sjögren's syndrome. *Journal of Neuroinflammation* 16, 1-9, 2019.
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55. Vikse J., Jonsdottir K., Kvaløy J.T., Wildhagen K., Omdal R., Tolerability and safety of long-term rituximab treatment in systemic inflammatory and autoimmune diseases. *Rheumatology International*, 39, 1083-1090, 2019.
56. Hagen K.B., Aas T., Kvaløy J.T., Søyland H., Lind R., Adherence to adjuvant endocrine therapy in postmenopausal breast cancer patients: A 5-year prospective study. *Breast*, 44, 52-58, 2019.
57. Helland T., Hagen K.B., Haugstøyl M.E., Kvaløy J.T., Lunde S., Lode K., Lind R.A., Gripsrud B.H., Jonsdottir K., Gjerde J., Bifulco E., Hustad S.S., Jonassen J., Aas T., Lende T.H., Lien E.A., Janssen E., Søyland H., Mellgren G., Drug monitoring of tamoxifen metabolites predicts vaginal dryness and verifies a low discontinuation rate from the Norwegian Prescription Database. *Breast Cancer Research and Treatment*, 177, 185-195, 2019.
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62. Mduma E.R., Ersdal H., Kvaløy J.T., Svensen E., Mdoe P., Perlman J., Kidanto H.L., Soreide E., Using statistical process control methods to trace small changes in perinatal mortality after a training program in a low-resource setting. *International Journal for Quality in Health Care*. 30, 271-275, 2018.
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66. Rad A.B., Eftestøl T., Irusta U., Kvaløy J.T., Wik L., Kramer-Johansen J., Katsaggelos A.K., Engan K., An automatic system for the comprehensive retrospective analysis of cardiac rhythms in resuscitation episodes. *Resuscitation*. 122, 6-12, 2018.
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68. Helland T., Henne N., Bifulco E., Naume B, Borgen E., Kristensen V.N., Kvaløy J.T., Lash T.L., Alnæs G.I.G., van Schaik R.H., Janssen E.A.M., Hustad S., Lien E.A., Mellgren G., Søiland H., Serum concentrations of active tamoxifen metabolites predict long-term survival in adjuvantly treated breast cancer patients. *Breast Cancer Research*, 28, 19:125, 2017.
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161. Røislien J, Kvaløy JT. Simpsons paradoks – når pluss og pluss blir minus. *Tidsskrift for Den norske legeforening*, 6, 2021.
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## Other

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## Review work

I have been doing peer-review work for the following journals:

- Scandinavian Journal of Statistics
- Biometrika
- Journal of the Royal Statistical Society: Series C
- Lifetime Data Analysis
- Computational Statistics and Data Analysis
- Biometrical Journal
- Journal of Statistical Planning and Inference
- Statistics in Medicine
- IEE Transactions

- Statistics and Probability Letters
- Communications in statistics
- Journal of the Iranian Statistical Society
- The R Journal
- Reliability Engineering and System Safety
- Risk analysis
- Scientific Reports
- PlosOne

## **Supervision**

Co-supervisor for five PhD students and two post doc projects. Supervisor for numerous students on master and bachelor theses.

## **Various**

Chairman of the Norwegian Statistical Association, 2015-2017. Member of the board of the Norwegian Statistical Association 2017-2019.

Member of the executive committee of the International Society for Clinical Biostatistics (ISCB) 2019-2020.

Member of the board of the national research school NORBIS since 2015.

Member of the evaluation committees for PhD students at Imperial College London, University of Oslo, Norwegian University of Science and Technology, University of Bergen and University of Stavanger.

Member of the organization committee and the scientific program committee for the ISCB-conference in Bergen 2012, and co-editor for a special issue of Statistics in Medicine based on work presented at the conference.

Elected member of the International Statistical Institute (since 2014), member of the American Statistical Association and member of the Norwegian Statistical Association.