

Curriculum vitae

Bergen 26th of November 2020

Name: Sverre Lehmann
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Nationality: Norwegian

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Present position

- Clinical director, Dept. of Thoracic Medicine, Haukeland University Hospital, 2019-ongoing.
- Associate professor, Dept. of Clinical Science, University of Bergen, 2009-ongoing.

Basic education/graduate degrees

Cand.med. (MD)	University of Oslo	1993
Medical specialities	Internal medicine	2003
	Pulmonary medicine	2005
PhD	University of Bergen	2008

Previous positions

- Resident, Dept. of Surgery and Dept. of Medicine, Aalesund Central Hospital, 1993-94.
- District junior doctor, Tingvoll, Municipality of Nord-Møre, 1994-95.
- Resident, Dept. of Surgery and Dept. of Medicine, Aalesund Central Hospital, 1995-98.
- Resident and senior consultant, Dept. of Thoracic Medicine, Haukeland University Hospital, 1999-2004.
- Research Fellow, Institute of Medicine, University of Bergen 2004-08.
- Section leader, senior consultant, Dept. of Thoracic Medicine, Haukeland University Hospital, 2008-19.

Committees

- Member of Steering Committee for regional information technology (IT) projects in Helse Vest, Norway (HELIKS), 2020- ongoing.
- Leader of the Steering Committee at the National Registry for Long Term Mechanical Ventilation (Nasjonalt register for langtids mekanisk ventilasjon), 2014- ongoing.
- Member of the working group for the National Competence Center for Sleep Disorders 2010-ongoing.
- Member of the Sykehusinnkjøp HF advisory specialist group for severe asthma 2018-ongoing.
- Member of Steering Committee for the Practical Procedure Unit at UiB 2015- ongoing.
- Norwegian national delegate in the European Respiratory Society 2009-12.
- Vice-president of the Norwegian Thoracic Society, 2008-11.
- Union leader for Senior Physicians in the Norwegian Medical Association (Dnlf, OF) at the Department of Thoracic Medicine, Haukeland University Hospital, 2001-02.
- Union leader for Junior Physicians in the Norwegian Medical Association (Dnlf, YLF) at the Central Hospital in Møre & Romsdal, Norway, 1996-98

Academic affiliations

Member at large: Norwegian Thoracic Society, 1998-. European Respiratory Society, 2002-. Nordic Severe Asthma Network, 2016-.

Referee work (30): Respiratory Medicine, The Clinical Respiratory Journal, The European Clinical Respiratory Journal, Chest, Journal of the Norwegian Medical Association (Tidsskriftet for Den norske legeforening), and Pulmonary Pharmacology & Therapeutics.

Finalized supervising activities

PhD (Approved) October 2019; second supervisor:

1. Markussen HØ, Intensive care nurse, MSci, National Centre for Long Term Mechanical Ventilation, Dept. of Thoracic Medicine, Haukeland University Hospital.
 - a. "Health-related quality of life and its association with mortality in patients receiving long-term mechanical ventilation".

Project work (særøppgave) medical students.

Main supervisor:

1. Hvidsten SC and Storesund L. Published article (list below, number 11).
2. Herland T. Published article (list below, number 22).

Research position 50% 2 years (Dept. of Thoracic Medicine, Haukeland University Hospital)

Main supervisor:

1. Storesund A. Published article (list below, number 27).

Currently supervising the following PhD-candidates

- 1) Main supervisor:
 - a) Trygve M Jonassen, Cand. Med., Dept. of Thoracic Medicine, Haukeland Univ. Hospital.
 - i) One published article, second article submitted for review, presented as posters on two congresses.
 - ii) Estimated dissertation spring 2022.
- 2) Second supervisor:
 - a) Kjersti Gjerde, Cand. Odont., Dept. of Thoracic Medicine, Haukeland University Hospital.
 - i) Two published articles
 - ii) Estimated dissertation autumn 2021.
 - b) Ulrik Opsahl, Cand. Odont., Dept. of Thoracic Medicine, Haukeland University Hospital.
 - i) Data analysis phase, no published results yet.
 - ii) Estimated dissertation in 2022.
 - c) Kristel Knudsen, Cand. Med., Dept. of Thoracic Medicine, Haukeland University Hospital.
 - i) Data analysis phase, three posters presented at international congresses.
 - ii) Estimated dissertation in 2024.
 - d) Ragnhild S Lundetræ, Stud. Med. (research line/ forskningslinjestud.), University of Bergen.
 - i) One published article, the second complete, very soon submitted for publication.
 - ii) Estimated dissertation 2023.
 - e) Åse Rogde, Cand. Med., Dept. of Thoracic Medicine, Haukeland University Hospital.
 - i) Research planning phase, financed in a 50% position initially for 2 years.
 - ii) Estimated dissertation 2025

PhD opponent work

- 1st Opponent for Kirill Neumann, PhD, University of Oslo 2015
- 2nd Opponent for Jan Magnus Fredheim PhD, University of Oslo 2014
- 2nd Opponent for Laxmi Batthia PhD, NTNU 2019
- 2nd Opponent for Sigurd Aarrestad, University of Oslo 2020
- 3rd Opponent for Ola D. Røksund PhD, University of Bergen 2012

International scientific publications with peer review

- 1) Lehmann S, Vollset S E, Nygaard H A, Gulsvik A (2004). Factors determining performance of bronchodilator reversibility tests in middle-aged and elderly. *Respiratory Medicine* 98:1071-1079.
- 2) Lehmann, S., J. Grebstad, O. Fondenes, A. H. Andreassen, P. Bakke, and A. Gulsvik (2005). [Treatment of obstructive sleep apnea]. *Tidsskr Nor Laegeforen* 125(2):199.
- 3) Lehmann S, Bakke PS, Eide GE, et al (2006). Bronchodilator reversibility testing in an adult general population; the importance of smoking and anthropometrical variables on the response to a [beta]2-agonist. *Pulmonary Pharmacology & Therapeutics* 19:272-280.
- 4) Johannessen A, Lehmann S, Omenaas ER, Eide GE, Bakke PS, Gulsvik A (2006). Post-Bronchodilator Spirometry Reference Values in Adults and Implications for Disease Management. *Am. J. Respir. Crit. Care Med* 173(12):1316-25.
- 5) Omenaas E, Dahl R, Bakke PS, Lehmann S (2006). Nordic physicians' management of asthma and chronic obstructive pulmonary disease. *Respiratory Medicine* 100: S31-S37
- 6) Lehmann S, Bakke PS, Eide GE, Gulsvik A. (2006). Bronchodilator response to adrenergic beta(2)-agonists: Relationship to symptoms in an adult community. *Respiratory Medicine*: 101(6):1183-90.
- 7) Andreassen AH, Lehmann S. (2007). [Reimbursement changes for COPD- basis for worry?] *Tidsskr Nor Laegeforen* 18;127(2):206-7.
- 8) Johannessen, A, Lehmann S, Omenaas E, Eide GE, Bakke P, and Gulsvik A (2007). Defining the Lower Limit of Normal for FEV1/ FVC. *Am. J. Respir. Crit. Care Med.* 176(1):101a-102.
- 9) Lehmann S, Bakke PS, Eide GE, Gulsvik A (2008). Clinical data discriminating between adults with positive and negative results on bronchodilator testing. *The International Journal of Tuberculosis and Lung Disease* 12(2):205-13.
- 10) Gulsvik A, Humerfelt S, Bakke PS, Omenaas ER, and S. Lehmann (2008). Norwegian population surveys on respiratory health in adults; objectives, design, methods, quality controls and response rates. *The Clinical Respiratory Journal* 2 Suppl 1: 10-25.
- 11) Hvidsten SC, Storesund L, Wentzel-Larsen T, Gulsvik A and Lehmann S (2010). Prevalence and predictors of undiagnosed chronic obstructive pulmonary disease in a Norwegian adult general population. *The Clinical Respiratory Journal* 4: 13–21.
- 12) Jusufovic M, Thomassen L, Storstein A, Rotevatn S, Lehmann S, Waje-Andreassen U (2011). Woman with recurrence of venous and arterial thrombosis. *Tidsskr Nor Laegeforen.* 1;131(13-14):1303-6.

- 13) Ingrid S Rokstad, Kirsten S Rokstad, Sissel Holmen, Sverre Lehmann, Jörg Assmus (2013). Electronic optional guidelines as a tool to improve the process of referring patients to specialized care: An intervention study. *Scandinavian journal of primary health care* 31(3):166-71.
- 14) Anders Johansson, Kjersti Gjerde, Sverre Lehmann, Bjørn Bjorvatn, Kahtan Al-Azawy, Shashi Gulati, Morten E Berge (2014). Oral appliance therapy for sleep apnoea. *Tidsskrift for den Norske lægeforening* 134(10):1030-1031.
- 15) Bjorvatn B, Pallesen S, Grønli J, Sivertsen B, Lehmann S (2014). Prevalence and correlates of insomnia and excessive sleepiness in adults with obstructive sleep apnea symptoms. *Percept Mot Skills*. 118(2):571-86.
- 16) Heidi Markussen, Sverre Lehmann, Roy M Nilsen, Gerd K Natvig (2015). The Norwegian version of the Severe Respiratory Insufficiency Questionnaire. *Int J Nurs Pract*. 21(3):229-38.
- 17) Anke Neukamm, Arne Didrik Høiseth, Gunnar Einvik, Sverre Lehmann, Tor-Arne Hagve, Vidar Søyseth, Torbjørn Omland (2015). Rosuvastatin treatment in stable chronic obstructive pulmonary disease (RODEO): a randomised controlled trial. *Journal of Internal Medicine*. 278(1):59-67.
- 18) Bjorn Bjorvatn, Sverre Lehmann, Shashi Gulati, Harald Aurlen, Ståle Pallesen, Ingvild West Saxvig (2015). Prevalence of excessive sleepiness is higher whereas insomnia is lower with greater severity of obstructive sleep apnea. *Sleep and Breathing*. 19(4):1387-93.
- 19) Sverre Lehmann, Øystein Fløtten (2015). Lærebok i ny utgave - fremdeles førstevalg. *Tidsskr Nor Legeforen* 135:1768.
- 20) Kjersti Gjerde, Sverre Lehmann, Ann-Katrin Gerd Johansson, Morten Eirik Berge, Anders Johansson (2016). Oral appliance treatment in moderate and severe obstructive sleep apnea patients non-adherent to CPAP. *Journal of Oral Rehabilitation*. 43(4):249-58.
- 21) AM Gabrielsen, T Omland, M Brokner, JM Fredheim, J Jordan, S Lehmann, MB Lund, J Hjelmæsæth, D Hofso (2016). The effect of surgical and non-surgical weight loss on N-terminal proB-type natriuretic peptide and its relation to obstructive sleep apnea and pulmonary function. *BMC Res Notes* 13;9(1):440
- 22) T Herland, EM Apalset, GE Eide, GS Tell, S Lehmann (2016). Airflow limitation as a risk factor for low bone mineral density and hip fracture. *Eur Clin Resp J* 11;3:32214.
- 23) R Grønseth, C Drengenes, HG Wiker, S Tangedal, Y Xue, GR Husebø, Ø Svanes, S Lehmann, M Aardal, T Hoang, T Kalanathan, EMH Martinsen, EO Leiten, M Aanerud, E Nordeide, I Haaland, I Jonassen, P Bakke, T Eagan (2017). Protected sampling is preferable in bronchoscopic studies of the airway microbiome. *ERJ Open Res*. 30;3(3).
- 24) TM Jonassen, TM Eagan, B Bjorvatn, S Lehmann (2018). Associations Between Obstructive Lung Disease and Symptoms of Obstructive Sleep Apnoea in a General Population: A Cross-Sectional Study. *The Clinical Respiratory Journal* 12(1):31-39.

- 25) Marit Elisabet Aardal, Lene Løvendahl Svendsen, Sverre Lehmann, Tomas Mikal Eagan, Ingvild Haaland (2017). A pilot study of hot-wire, ultrasonic and wedge-bellows spirometer inter- and intra-variability. *BMC Res Notes*. 10(1):497
- 26) Heidi Markussen, Sverre Lehmann, Roy M Nilsen, Gerd K Natvig (2018). Factors associated with change in health-related quality of life among individuals treated with long-term mechanical ventilation, a six-year follow-up study. *Journal of Advanced Nursing* 74(3):651-665.
- 27) Storesund A, Johansson AA, Bjorvatn B, Lehmann S (2018). Oral appliance treatment outcome can be predicted by continuous positive airway pressure in moderate to severe obstructive sleep apnea. *Sleep and Breathing* May;22(2):385-392.
- 28) Gjerde K, Lehmann S, Naterstad IF, Berge ME, A. Johansson (2018). Reliability of an adherence monitoring sensor embedded in an oral appliance used for treatment of obstructive sleep apnea. *Journal of Oral Rehabilitation* Feb;45(2):110-115.
- 29) Bjorvatn N, Rajakulendren N, Lehmann S, Pallesen S (2018). Increased severity of obstructive sleep apnea is associated with less anxiety and depression. *Journal of Sleep Research*. Volume 27, Issue 6 December 2018: e12647.
- 30) Tveit RL, Lehmann S, Bjorvatn B (2018). Prevalence of several somatic diseases depends on the presence and severity of obstructive sleep apnea. *PLoS One*. 13(2):e0192671.
- 31) Porsbjerg C, Ulrik C, Skjold T, Backer V, Laerum B, Lehmann S, Janson C, Sandstrøm T, Bjermer L, Dahlen B, Lundbäck B, Ludviksdóttir D, Björnsdóttir U, Altraja A, Lehtimäki L, Kauppi P, Karjalainen J, Kankaanranta H (2018). Nordic consensus statement on the systematic assessment and management of possible severe asthma in adults. *Eur Clin Respir J*. 5(1):1440868.
- 32) Lundetræ RS, Saxvig IW, Pallesen S, Aurlen H, Lehmann S, Bjorvatn B (2018). Prevalence of parasomnias in patients with obstructive sleep apnea. A registry-based cross-sectional study. *Frontiers in Psychology*. Jul 5;9: 1140.
- 33) Bjorvatn B, Berge T, Lehmann S, Pallesen S, Saxvig IW (2018). No Effect of a Self-help Book for Insomnia in Patients with Obstructive Sleep Apnea and Comorbid Chronic Insomnia – a Randomized Controlled Trial. *Frontiers in Psychology*. Nov 29;9:2413.
- 34) Lehmann S, Ringbæk T, Løkke A, Grote L, Hedner J, Lindberg E (2019). A randomized trial to determine the impact of indacaterol/glycopyrronium on night-time oxygenation and symptoms in patients with moderate-to-severe COPD: the DuoSleep study. *Int J Chron Obstruct Pulmon Dis*. Jan 9;14:199-210.
- 35) Markussen H, Lehmann S, Nilsen RM, Natvig GK (2019). Health-related quality of life as predictor for mortality in patients treated with long-term mechanical ventilation. *BMC Pulm Med*. Jan 11;19(1):13.
- 36) Martinsen EMH, Eagan TML, Leiten EO, Nordeide E, Bakke PS, Lehmann S, Nielsen R (2019). Motivation and response rates in bronchoscopy studies. *Multidiscip Respir Med*. May 2;14: 14.
- 37) The ISAR study group (46 authors), (2019). International Severe Asthma Registry: Mission Statement. *CHEST* 2020; 157(4):805-814.
- 38) Elise Orvedal Leiten, Tomas Mikal Lind Eagan, Einar Marius Hjellestad Martinsen, Eli Nordeide, Gunnar Reksten Husebø, Kristel Svalland Knudsen, Sverre Lehmann, Øistein Svanes, Per Sigvald

Bakke, Rune Nielsen (2020). Complications and discomfort after research bronchoscopy in the MicroCOPD study. *BMJ Open Resp Res*;7:e000449.

39) Kirk Geale, Hatef Darabi, Maria Lindh, Hanna Fues Wahl, Oskar Ström, Hui Cao, Luisa Alvares, Rikke Dodge, Emil Loeftroth, Alan Altraja, Vibeke Backer, Helena Backman, Leif Bjermer, Apostolos Bossios, Bernt Bøgvald Aarli, Barbro Dahlén, Ole Hilberg, Christer Janson, Hannu Kankaanranta, Jussi Karjalainen, Paula Kauppi, Maritta Kilpeläinen, Sverre Lehmann, Lauri Lehtimäki, Bo Lundbäck, Thomas Sandström, Charlotte Suppli Ulrik, Asger Sverrild, Arja Viinanen, Anna von Bülow, Valentyna Yasinska and Celeste Porsbjerg (2020). NORDSTAR: paving the way for a new era in asthma research. *Eur Respir J*; 55: 1902476

40) Ragnhild Stokke Lundetræ, Ingvild West Saxvig, Sverre Lehmann, Bjørn Bjorvatn (2020). Effect of continuous positive airway pressure on symptoms of anxiety and depression in patients with obstructive sleep apnea. *Sleep And Breathing*. Accepted for publication November 2020; DOI: [10.1007/s11325-020-02234-7](https://doi.org/10.1007/s11325-020-02234-7)

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