



# Vegard Lysne

CLINICAL DIETITIAN, PHD

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## Professional summary

I'm a clinical dietitian (PhD), working as a postdoctoral researcher at Haukeland University Hospital. My main professional interests are methods in nutritional epidemiology and statistics, including programming in the R language and data reporting and visualization. Currently I hold positions as editorial board member of the Norwegian Journal of Nutrition, review editor in Frontiers in Nutrition, and chapter expert on riboflavin, niacin and vitamin B12 in the Nordic Nutrition Recommendations 2022. In 2019 I led the organizing committee for the annual conference of the Norwegian Association of Clinical Dietitians.

## Education

### PhD

DEPARTMENT OF CLINICAL SCIENCE, UNIVERSITY OF BERGEN

Norway

2015-2019

- Thesis title: Biomarkers of one-carbon metabolism and B-vitamin status - Targeted metabolomics in rats and humans exploring the effects of PPAR alpha-activation and dietary composition

### MSc, Clinical Nutrition

UNIVERSITY OF BERGEN, FACULTY OF MEDICINE

Norway

2012-2014

- Thesis title: Treatment with a Peroxisome Proliferator-Activated Receptor agonist influences one-carbon metabolism and markers of B-vitamin status in rats

### BSc, Human Nutrition

UNIVERSITY OF BERGEN, FACULTY OF MEDICINE

Norway

2009-2012

## Work experience

### Postdoctoral researcher

DEPARTMENT OF HEART DISEASE, HAUKELAND UNIVERSITY HOSPITAL, BERGEN, NORWAY

2020-

### Researcher

DEPARTMENT OF CLINICAL SCIENCE, UNIVERSITY OF BERGEN, BERGEN, NORWAY

2019

### PhD candidate

DEPARTMENT OF CLINICAL SCIENCE, UNIVERSITY OF BERGEN, BERGEN, NORWAY

2015-2019

### Research assistant

DEPARTMENT OF HEART DISEASE, HAUKELAND UNIVERSITY HOSPITAL, BERGEN, NORWAY

2014-2015

## Courses attended

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- 2021 ENLP Essentials
- 2019 Building Tidy Tools, RStudio::conf workshop
- 2018 Data Science in the Tidyverse, RStudio::conf workshop
- 2017 Competing Risks, Introduction to Flexible Parametric Survival Analysis and Cancer Screening, EPINOR annual meeting
- 2017 New statistical methods for causal inference, University of Oslo
- 2017 Logistic regression, survival analysis and Cox-regression, University of Oslo
- 2017 The Art of Scientific Investigation, EPINOR summer school
- 2017 University pedagogy for PhD candidates, University of Bergen
- 2017 Epidemiology - beyond the basics, University of Oslo
- 2016 6th International course in Nutritional Epidemiology, Imperial College, London
- 2016 Experimental Design and Statistical Analysis, FRAME training school
- 2016 Basic course in Medical and Health Related Research, University of Bergen

## Publications in international peer-reviewed journals

---

1. Saeed S, Vamvakidou A, Zidros S, Papasozomenos G, **Lysne V**, Khattar RS, Senior R. Sex differences in transaortic flow rate and association with all-cause mortality in patients with severe aortic stenosis. *Eur Heart J Cardiovasc Imaging* 2021 PMID: 33734325
2. Matre ÅO, Parys AV, Olsen T, Haugsgjerd TR, Baravelli CM, Nygård O, Dierkes J, **Lysne V**. The Association of Meat Intake With All-Cause Mortality and Acute Myocardial Infarction Is Age-Dependent in Patients With Stable Angina Pectoris. *Front Nutr*, 2021. PMID: 33748176
3. Dhar I, Svingen GFT, Olsen T, **Lysne V**, Bjørnstad EØ, Ueland PM, Nygård O.  $\beta$ -blocker use and risk of all-cause mortality in patients with coronary heart disease: effect modification by serum vitamin A. *Eur J Prev Cardiol*, 2021. PMID: 33709106
4. Haugsgjerd TR, Egeland GM, Nygård OK, Igland J, Sulo G, **Lysne V**, Vinknes KJ, Bjørnevik K, Tell GS. Intake of carbohydrates and SFA and risk of CHD in middle-age adults: the Hordaland Health Study (HUSK). *Public Health Nutr*, 2020. PMID: 32907659
5. Saeed S, Smith J, Grigoryan K, **Lysne V**, Rajani R, Chambers JB. The tricuspid annular plane systolic excursion to systolic pulmonary artery pressure index: Association with all-cause mortality in patients with moderate or severe tricuspid regurgitation. *Int J Cardiol*, 2020. PMID: 32512064
6. Parys AV, **Lysne V**, Øyen J, Dierkes J, Nygård O. No effect of plasma trimethylamine N-Oxide (TMAO) and plasma trimethyllysine (TML) on the association between choline intake and acute myocardial infarction risk in patients with stable angina pectoris. *Human Nutrition & Metabolism*, 2020. doi: j.hnm.2020.200112
7. Haugsgjerd TR, Egeland GM, Nygård OK, Vinknes KJ, Sulo G, **Lysne V**, Igland J and Tell GS. Association of Dietary Vitamin K and Risk of Coronary Heart Disease in Middle-Age Adults: The Hordaland Health Study Cohort. *BMJ Open*, 2020. PMID: 32444431
8. Svenningsson MM, Svingen GFT, **Lysne V**, Ueland PM, Tell GS, Pedersen ER, Dhar I, Nilsen DW and Nygård O. Transsulfuration metabolites and the association with incident atrial fibrillation - An observational cohort study among Norwegian patients with stable angina pectoris. *Int J Cardiol*, 2020. PMID: 32389762
9. Dhar I, Siddique S, Pedersen ER, Svingen GFT, **Lysne V**, Olsen T, Nilsen DW, Nordrehaug JE, Midttun Ø, Ueland PM, Tell GS and Nygård O. Lipid parameters and vitamin A modify cardiovascular risk prediction by plasma neopterin. *Heart*, 2020. PMID: 32398245
10. **Lysne V**, Bjørndal B, Grinna ML, Midttun Ø, Ueland PM, Berge RK, Dierkes J, Nygård O and Strand E. Short-term treatment with a peroxisome proliferator-activated receptor  $\alpha$  agonist influences plasma one-carbon metabolites and B-vitamin status in rats. *PLoS One*, 2019. PMID: 31805132
11. Parys AV, **Lysne V**, Svingen GFT, Ueland PM, Dhar I, Øyen J, Dierkes J and Nygård O. Dietary choline is related to increased risk of acute myocardial infarction in patients with stable angina pectoris. *Biochimie*, 2019. PMID: 31707100
12. Olsen T, Vinknes KJ, Blomhoff R, **Lysne V**, Midttun Ø, Dhar I, Ueland PM, Svingen GFT, Pedersen ER, Drevon CA, Refsum H, Nygård O. Creatinine, total cysteine and uric acid are associated with serum retinol in patients with cardiovascular disease. *Eur J Nutr*, 2019. PMID: 31502058
13. Strand E, **Lysne V**, Grinna ML, Bohov P, Svandal A, Nygård O, Berge RK, Bjørndal B. Short-Term Activation of Peroxisome Proliferator-Activated Receptors  $\alpha$  and  $\gamma$  Induces Tissue-Specific Effects on Lipid Metabolism and Fatty Acid Composition in Male Wistar Rats. *PPAR res*, 2019. PMID: 31308847

14. Ulven SM, Christensen JJ, Nygård O, Svardal A, Leder L, Ottestad I, **Lysne V**, Laupsa-Borge J, Ueland PM, Midttun Ø, Meyer K, McCann A, Andersen LF, Holven KB. Using metabolic profiling and gene expression analyses to explore molecular effects of replacing saturated fat with polyunsaturated fat-a randomized controlled dietary intervention study. *Am J Clin Nutr*, 2019. PMID: 31051508
15. Dhar I, **Lysne V**, Svingen GFT, Ueland PM, Gregory JF, Bønaa KH, Nygård OK. Elevated plasma cystathionine is associated with increased risk of mortality among patients with suspected or established coronary heart disease. *Am J Clin Nutr*, 2019. PMID: 31005968
16. Puaschitz NG, Assmus J, Strand E, Karlsson T, Vinknes KJ, **Lysne V**, Drevon CA, Tell GS, Dierkes J, Nygård O. Adherence to the Healthy Nordic Food Index and the incidence of acute myocardial infarction and mortality among patients with stable angina pectoris. *J Hum Nutr Diet*, 2019. PMID: 30091209
17. Dhar I, Svingen GFT, Ueland PM, **Lysne V**, Svenningsson MM, Tell GS, Nygård OK. Plasma Cystathionine and Risk of Incident Stroke in Patients With Suspected Stable Angina Pectoris. *J Am Heart Assoc*, 2018. PMID: 30371177
18. Bjørndal B, Bruheim I, **Lysne V**, Ramsvik MS, Ueland PM, Nordrehaug JE, Nygård OK, Berge RK. Plasma choline, homocysteine and vitamin status in healthy adults supplemented with krill oil: a pilot study. *Scand J Clin Lab Invest*, 2018. PMID: 30261756
19. Dhar I, **Lysne V**, Seifert R, Svingen GFT, Ueland PM, Nygård OK. Plasma methionine and risk of acute myocardial infarction: Effect modification by established risk factors. *Atherosclerosis*, 2018. PMID: 29621698
20. Strauss P, Marti HP, Beisland C, Scherer A, **Lysne V**, Leh S, Flatberg A, Koch E, Beisvag V, Landolt L, Skogstrand T, Eikrem ØS. Expanding the Utilization of Formalin-Fixed, Paraffin-Embedded Archives: Feasibility of miR-Seq for Disease Exploration and Biomarker Development from Biopsies with Clear Cell Renal Cell Carcinoma. *Int J Mol Sci*, 2018. PMID: 29534467
21. Strand E, Rebnord EW, Flygel MR, **Lysne V**, Svingen GFT, Tell GS, Løland KH, Berge RK, Svardal A, Nygård O, Pedersen ER. Serum Carnitine Metabolites and Incident Type 2 Diabetes Mellitus in Patients With Suspected Stable Angina Pectoris. *J Clin Endocrinol Metab*, 2018. PMID: 29325058
22. DeRatt BN, Ralat MA, **Lysne V**, Tayyari F, Dhar I, Edison AS, Garrett TJ, Midttun Ø, Ueland PM, Nygård OK, Gregory JF 3rd. Metabolomic Evaluation of the Consequences of Plasma Cystathionine Elevation in Adults with Stable Angina Pectoris. *J Nutr*, 2017. PMID: 28794210
23. Hannibal L, **Lysne V**, Bjørke-Monsen AL, Behringer S, Grünert SC, Spiekerkoetter U, Jacobsen DW, Blom HJ. Biomarkers and Algorithms for the Diagnosis of Vitamin B12 Deficiency. *Front Mol Biosci*, 2016. PMID: 27446930
24. **Lysne V**, Strand E, Svingen GF, Bjørndal B, Pedersen ER, Midttun Ø, Olsen T, Ueland PM, Berge RK, Nygård O. Peroxisome Proliferator-Activated Receptor Activation is Associated with Altered Plasma One-Carbon Metabolites and B-Vitamin Status in Rats. *Nutrients*, 2016. PMID: 26742069
25. **Lysne V**, Bjørndal B, Vik R, Nordrehaug JE, Skorve J, Nygård O, Berge RK. A Protein Extract from Chicken Reduces Plasma Homocysteine in Rats. *Nutrients*, 2015. PMID: 26053618
26. Øyen J, Svingen GF, Gjesdal CG, Tell GS, Ueland PM, **Lysne V**, Apalset EM, Meyer K, Vollset SE, Nygård OK. Plasma dimethylglycine, nicotine exposure and risk of low bone mineral density and hip fracture: the Hordaland Health Study. *Osteoporos Int*, 2015. PMID: 25616506

## Other publications

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1. Matre ÅO, Dierkes J, **Lysne V**. Ernæringsforskning er ikke som annen forskning. *Norsk Tidsskrift for Ernæring*, 2020(2)
2. Myklebust-Hansen T, **Lysne V**. FENS 2019: Malnutrition in an obese world - European perspective. *Norsk Tidsskrift for Ernæring*, 2019(4)
3. Matre ÅO, **Lysne V**. B12-tilskudd uten B12-mangel. *Norsk Tidsskrift for Ernæring*, 2019(3).
4. **Lysne V**. 12. Internasjonale konferanse om enkarbonmetabolisme, B-vitaminer og homocystein. *Norsk Tidsskrift for Ernæring*, 2019(3).
5. **Lysne V**, Marienborg I, Olsen T. FASEB-konferanse om folat, vitamin B12 og enkarbonmetabolisme. *Norsk Tidsskrift for Ernæring*, 2018(3).
6. **Lysne V**, Olsen T. Feilkilder i ernæringsepidemiologi. *Norsk Tidsskrift for Ernæring*, 2018(2).
7. **Lysne V**. Glimt fra den 11. internasjonale konferansen om homocystein og enkarbonmetabolisme i Århus. *Norsk tidsskrift for Ernæring*, 2017(3).
8. **Lysne V**, Olsen T. Konfidensintervaller – hva kan de fortelle deg? *Norsk Tidsskrift for Ernæring*, 2017(1)
9. **Lysne V**, Olsen T. P-verdier. Veiledende eller villedende? En simulert studie. *Norsk Tidsskrift for Ernæring*, 2016(4).
10. Christensen JJ, **Lysne V**. Støtter lørdagsgodt. *Den Norske Tannlegeforenings Tidende*, 2016(5).

11. Olsen T, **Lysne V**. Ta faget tilbake. Norsk Tidsskrift for Ernæring, 2015(3).
12. Kverneland M, Christensen JJ, **Lysne V**. Lavkarbodietter har kommet for å bli, men hører hjemme i klinikken. Norsk Tidsskrift for Ernæring, 2015(2).

## Conference attendance

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2020	Nordic Nutrition Conference 2020 (virtual)	Poster presentation
2020	Sunn Idrett, Oslo, Norway	Oral presentation
2019	The European Nutrition Conference (FENS), Dublin, Ireland	Poster presentation
2019	12th International Conference on homocysteine and one-carbon metabolism, Tarragona, Spain	Poster presentation
2019	RStudio::conf2019, Austin, TX, USA	
2019	The conference of the Norwegian Association of Clinical Dietitians (KEFF), Bergen, Norway	
2018	FASEB Science research conference: Folic Acid, Vitamin B12 and One Carbon Metabolism, Halifax, Nova Scotia, Canada	Poster presentation
2018	RStudio::conf, San Diego, CA, USA	
2018	The conference of the Norwegian Association of Clinical Dietitians (KEFF), Kristiansand, Norway	
2017	11th International Conference on homocysteine and one-carbon metabolism, Aarhus, Denmark	Poster presentation
2017	Norwegian Society for Epidemiology conference, Tromsø, Norway	
2017	The conference of the Norwegian Association of Clinical Dietitians (KEFF), Oslo, Norway	Oral presentation
2016	Nordic Nutrition Conference, Gotenburg, Sweden	
2016	FASEB Science research conference: Folic Acid, Vitamin B12 and One Carbon Metabolism, Steamboat Springs, CO, USA	Oral presentation
2015	10th International Conference on homocysteine and one-carbon metabolism, Nancy, France	Oral presentation
2015	The conference of the Norwegian Association of Clinical Dietitians (KEFF), Oslo, Norway	
2014	FASEB Science research conference: Folic Acid, Vitamin B12 and One Carbon Metabolism, Steamboat Springs, CO, USA	Poster presentation
2014	Nordic Congress for Dietitians, Bergen, Norway	
2013	9th International Conference on homocysteine and one-carbon metabolism, Dublin, Ireland	Poster presentation
2013	The conference of the Norwegian Association of Clinical Dietitians (KEFF), Oslo, Norway	
2012	The conference of the Norwegian Association of Clinical Dietitians (KEFF), Oslo, Norway	

## Teaching experience

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In the period 2015-current, I have taught courses at every semester of the bachelor and masters program in clinical nutrition at University of Bergen. I've held lectures on topics such as methods in nutrition research, nutritional biochemistry, food science, micronutrient metabolism, genetic disorders in nutrient metabolism and general nutrition in health and disease.

## PhD candidate supervision

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2020-	Anthea Van Parys	Main supervisor
2020-	Åslaug O Matre	Main Supervisor

## Student supervision

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2021-	Christina Osland Johannesen	MSc
2021-	Vilde Haugen Myklebust	MSc
2020-	Marianne Braatveit	MSc
2020-	Marie Kulseth	MSc
2020	Rosemarie Aaby and Ann Helen Børseth	BSc
2019-20	Åslaug O Matre	MSc
2018	Åslaug O Matre and Henriette Holm	BSc
2017-18	Ingvild Marienborg	MSc
2016-17	Jostein Sæle	MSc
2016-17	Kristine S. Samuelsen	MSc
2016-17	Marcela Palma	MSc
2016	Turid Bjørnsen Iversen	BSc
2015	Jostein Sæle, Helene Dahl, Caroline K Jacobsen and Silje S Vabø	BSc

## Thesis committees

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2020	Maren T Aase and Andrea H Kalås	<i>MSc theses</i>
2020	Elise Frederich	<i>BSc thesis</i>
2018	Eirin S Gjerde and Emilie H Markhus	<i>BSc theses</i>
2017	Trine Larsen, Helene Søliland and Miriam H Brandt	<i>MSc theses</i>
2017	Amalie Moxness, Maria-Anna F Holmefjord and Benedicte Wirkola	<i>BSc theses</i>
2016	Tonje N Hustoft and Anita E Smette	<i>MSc theses</i>
2016	Synnøve Næss, Ingrid Revheim, Charlotte Z Tøssebro and Renate D Laumann	<i>BSc theses</i>
2015	Anette Hetlevik and Maria B Songve	<i>BSc theses</i>

## Organizations and committees

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2020-	Nordic Nutrition Recommendations 2022, Chapter author, Cobalamin
2020-	Nordic Nutrition Recommendations 2022, Chapter author, Niacin
2020-	Nordic Nutrition Recommendations 2022, Chapter author, Riboflavin
2020-	Review Editor, Frontiers in Nutrition
2019	Leader of the Organizing committee of the annual conference of The Norwegian Association of Dietitians
2018-	Member of the editorial board, Norwegian Journal of Nutrition (NTFE)
2015-2018	Member of the academic policy board, The Norwegian Association of Dietitians affiliated with The Norwegian Association of Researchers

## Skills and languages

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R/Rstudio: Statistical programming, data handling and visualization	<i>Experienced</i>
SPSS: Statistical software	<i>Experienced</i>
STATA: Statistical software	<i>Basic knowledge</i>
Microsoft Office: Word, Excel, Powerpoint, Outlook	<i>Experienced</i>
Inkscape: Vector graphics	<i>Intermediate</i>
Git/GitHub: Version control	<i>Basic</i>
Norwegian, Written and oral	<i>First language</i>
English, Written and oral	<i>Fluent</i>

## References

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On request