

Associate Professor Gustav Jarl

Present position: *Certified Prosthetist and Orthotist, and Researcher, Region Örebro and Örebro University, Sweden.*

Education and Background

Ph.D. Örebro University, 2014.

Prosthetist and Orthotist degree, B.Sc, Jönköping University, 2001.

M.Sc. Prosthetics and Orthotics, Jönköping University, 2003.

Ph.D. Medicine, Örebro University, 2014.

M.Sc. Decision, Risk and Policy Analysis, University of Gävle, 2020.

Research and Collaboration

I have been a member of the Offloading Working Group of the IWGDF since 2017 and belong to the Treatment in Upper and Lower Limb Malformation or Amputation (TUMA) research group at Örebro University. Through my research and clinical work, I am accustomed to interdisciplinary collaboration and work with researchers in Sweden, the Netherlands, Germany, the USA, the UK, and Australia. Although my primary research focus is the diabetic foot, I am involved in a wide variety of projects, including amputations, ethical stress, dysmelia, stroke, post-stroke fatigue, quality of life in people with dementia, prosthetic embodiment, among others. I consider this diversity a strength that has broadened my perspective on the diabetic foot, particularly the understanding that offloading and prevention involve not only biomechanics but also education, communication, and psychology.

Teaching and Supervision

I teach courses on measurement of health-related quality of life (PhD level), scientific methodology, and the diabetic foot. I also supervise BSc theses (prosthetists/orthotists and occupational therapists) and currently supervise five PhD students (three as main supervisor and two as assistant supervisor).

Contact details

Name: Gustav Jarl

Postal address: Universitetssjukvårdens Forskningscentrum, S-huset vån. 1, Universitetssjukhuset Örebro, SE-701 85 Örebro, Sweden

Telephone: +46-(0)19-602 58 75

Mobile phone: +46-(0)70 745 46 78

E-mail: gustav.jarl@regionorebrolan.se

ORCID: 0000-0002-6410-2474

List of publications

Matérne M, Arvidsson Lindvall M, Appelros P, Eriksson O, Jarl G. Post-stroke fatigue: The role of comorbidities and its impact on quality of life. *BMC Neurology*. 2025;25:177.

Ramstrand S, Carlberg M, Jarl G, Johannesson A, Hiyoshi A, Jansson SO. Exploring potential risk factors for lower limb amputation in people with diabetes – a national observational cohort study in Sweden. *J Foot Ankle Res*. 2024;e70005.

Jarl G, Hulshof CM, Tjhuis KA, Busch-Westbroek TE, Bus SA, van Netten JJ. Adherence to wearing prescribed footwear in people at risk of diabetes-related foot ulcers. *J Foot Ankle Res*. 2024;e70002.

Björck A, Matérne M, Arvidsson Lindvall M, Jarl G. Investigating cognitive impairment, biopsychosocial barriers, and predictors of return to daily life among older stroke survivors. *Front. Neurol*. 2024;15:1403567.

Hellstrand Tang U, Jarl G, Eriksson M, Johannesson A, Rusaw DF. Clinical guidelines recommending prosthetics and orthotics in Sweden: agreement between national and regional guidelines. *Prosthet Orthot Int*. 2024;48(3):284-289.

Lazzarini PA, Armstrong DG, Crews RT, Gooday C, Jarl G, Kirketerp-Moller K, Viswanathan V, Bus SA. Effectiveness of offloading interventions for people with diabetes-related foot ulcers: a systematic review and meta-analysis. *Diabetes Metab Res Rev* 2023;e3650.

Bus SA, Armstrong DG, Crews RT, Gooday C, Jarl G, Kirketerp-Moller K, Viswanathan V, Lazzarini PA. Guidelines on offloading foot ulcers in persons with diabetes (IWGDF 2023 update) *Diabetes Metab Res Rev* 2023;e3647.

Jarl G, Hulshof CM, Busch-Westbroek TE, Bus SA, van Netten JJ. Adherence and wearing time of prescribed footwear among people at risk of diabetes-related foot ulcers: which measure to use? *Sensors* 2023;23(3):1648

Gigante I, Sigurjónsdóttir ED, Jarl G, Hellstrand Tang U. Offloading of diabetes-related neuropathic foot ulcers at Swedish prosthetic and orthotic clinics. *Diabetes Metab Res Rev*. 2023;e3611.

Jarl G, Rusaw DF, Terrill AJ, Barnett CT, Woodruff MA, Lazzarini PA. Personalized offloading treatments for healing plantar diabetic foot ulcers. *J Diabetes Sci Technol*, 2023;17(1):99–106,

Jarl G, van Netten JJ, Lazzarini PA. Fragile feet and trivial trauma: Communicating the etiology of diabetic foot ulcers to patients. *J Am Podiatr Med Assoc* 2023;113(1)

Amer A, Hermansson L, Jarl G, Forssberg H, Andrews C, Kakooza-Mwesige A, Eliasson AC. Validity and test-retest reliability of the Ugandan version of the Pediatric Evaluation of Disability Inventory (PEDI-UG) in children and youth with cerebral palsy. *Child: Care, Health & Development*, 2023;49:464–484.

Skogsberg M, Jarl G, Matérne M. Health care workers' need for support from managers during the initial phase of the COVID-19 pandemic. *BMC Health Services Research*. 2022;22(1):1563.

Zügner R, Jarl G, Sundberg L, Hellstrand Tang U. Experiences of using a digital tool, the D-Foot, in the screening of risk factors for diabetic foot ulcers. *J Foot Ankle Res.* 2022;15:90.

Svantesson M, Durnell L, Hammarström E, Jarl G, Sandman L (shared last authorship). Moral distress and exhausting stress working in the frontline of Covid-19 - a Swedish survey during the first wave in four healthcare settings. *BMJ Open*, 2022;12.7:e055726.

Amer A, Alomari M, Jarl G, Mohammad Ajarmeh M, Migdadi F, Eliasson A-C, Hermansson L. Cross-cultural Adaptation and Validation of the Arabic Version of Children's Hand-use Experience Questionnaire (CHEQ). *Hong Kong Journal of Occupational Therapy*, 2022;35(1):84–95.

Jarl G, Johannesson GA, Carlberg M, Jansson SPO., Hiyoshi, A. Editor's Choice—Incidence of Lower Limb Amputations in Sweden from 2008 to 2017. *Eur J Vasc Endovasc Surg*, 2022;64.2-3: 266-273.

Matérne M, Simpson G, Jarl G, Appelros P, Arvidsson Lindvall M. Contribution of participation and resilience to quality of life among persons living with stroke in Sweden: a qualitative study. *International Journal of Qualitative Studies on Health and Well-being*, 2022; 17:1, 2119676

Lazzarini PA, Jarl G. Knee-high devices are gold in closing the foot ulcer gap: A review of offloading treatments to heal diabetic foot ulcers. *Medicina* 2021;57:941.

Appelros P, Matérne M, Jarl G, Arvidsson-Lindvall M. Comorbidity in stroke-survivors: prevalence and associations with functional outcomes and health. *J Stroke Cerebrovasc Dis*, 2021;30(10): 1060001.

Jarl G, van Netten JJ, Lazzarini PA, Crews RT, Najafi B, Mueller MJ. Should weight-bearing activity be reduced during healing of diabetic foot ulcers, even when using appropriate offloading devices? *Diabetes Res Clin Pract* 2021;10:108733.

van Netten JJ, Jarl G, Postema K, Williams AE. A toolkit for prosthetists and orthotists to facilitate progress in professional communication over the next 50 years. *Prosthet Orthot Int.* 2020;44(6):408-415.

Jarl G, Tranberg R, Johansson U, Alnemo J, Lundqvist L-O. Predictors of adherence to wearing therapeutic footwear among people with diabetes. *J Foot Ankle Res.* 2020;13(1):45.

Jarl G, Gooday C, Lazzarini PA, Bus SA. Practical considerations for implementing the new IWGDF guideline for offloading diabetic foot ulcers. *The Diabetic Foot Journal.* 2020;23(2): 14–20

Jarl G, Rusaw DF, Johannesson A. Comment on van Netten, et al: Definitions and criteria for diabetic foot disease. *Endocrinol Diab Metab.* 2020;3:e00142.

Lazzarini PA, Jarl G, Gooday C, Viswanathan V, Caravaggi CF, Armstrong DG, Bus SA. Effectiveness of offloading interventions to heal foot ulcers in persons with diabetes: a systematic review. *Diabetes Metab Res Rev.* 2020;36(S1):e3275.

Bus SA, Armstrong DG, Gooday C, Jarl G, Caravaggi CF, Viswanathan V, Lazzarini PA. Guidelines on offloading foot ulcers in persons with diabetes (IWGDF 2019 update). *Diabetes Metab Res Rev.* 2020;36(S1):e3274.

Jarl G, Lundqvist L-O. An alternative perspective on assistive technology: the person–environment–tool (PET) model. *Assistive Technology*. 2020;32(1), 47-53.

Jarl G, Hermansson L. A modified walk-in clinic for shoe insoles: Follow-up of non-attendants. *Prosthet Orthot Int*. 2019;43(6):597-600.

Jarl G. Commitment devices in the treatment of diabetic foot ulcers. *J Foot Ankle Res* 2019;12(1):44.

Jarl G, Hellstrand Tang U, Nordén E, Johannesson A, Rusaw DF. Nordic clinical guidelines for orthotic treatment of osteoarthritis of the knee: a systematic review using the AGREE II instrument. *Prosthet Orthot Int*. 2019;43(5):556–563.

Jarl G, Alnemo J, Tranberg R, Lundqvist L-O. Gender differences in attitudes and attributes of people using therapeutic shoes for diabetic foot complications. *J Foot Ankle Res*. 2019;12(1):21.

Jarl G. Decision trees for risk stratification of the diabetic foot. *The Diabetic Foot Journal*. 2018;21(4):218-23.

Jarl G. Methodological considerations of investigating adherence to using offloading devices among people with diabetes. *Patient Prefer Adherence*. 2018;12:1767-75.

Amer A, Kakooza-Mwesige A, Jarl G, Tumwine JK, Forssberg H, Eliasson A-C, Hermansson LN. The Ugandan Version of the Pediatric Evaluation of Disability Inventory (PEDI-UG). Part II: Psychometric Properties. *Child: Care, Health & Development*. 2018 Jul;44(4):562-571.

Jarl G, Ramstrand N. A model to facilitate implementation of the International Classification of Functioning, Disability and Health (ICF) in prosthetics and orthotics. *Prosthet Orthot Int*. 2018;42(5):468–475.

Jarl G, Hermansson LN. A modified walk-in system versus scheduled appointments in a secondary care prosthetic and orthotic clinic. *Prosthet Orthot Int*. 2018;42(5):483–489.

Jarl G, Lundqvist L-O. Beyond dichotomous thinking: A process perspective on diabetic foot disease. *Diabetic Foot & Ankle*. 2017, 8(1): 1380477.

Jarl, G., Tranberg, R. An innovative sealed shoe to off-load and heal diabetic forefoot ulcers – a feasibility study. *Diabetic Foot & Ankle*, 2017;8(1):1348178.

Jarl G, Lundqvist L-O. Adherence to wearing therapeutic shoes among people with diabetes: a systematic review and reflections. *Patient Prefer Adherence* 2016;10:1521-1528.

Jarl GM, Heinemann AW, Lindner HY, Norling Hermansson LM. Cross-cultural validity and differential item functioning of the Orthotics and Prosthetics Users' Survey with Swedish and American users of lower limb prosthesis. *Arch Phys Med Rehabil*. 2015;96:1615-26.

Amer AO, Jarl GM, Hermansson LN. The effect of insoles on foot pain and daily activities. *Prosthet Orthot Int*. 2014;38(6):474-80.

Jarl GM, Holmefur M, Hermansson, LM. Test-retest reliability of the Swedish version of the Orthotics and Prosthetics Users' Survey Prosthet Orthot Int. 2014;38(1):21-6.

Jarl GM, Heinemann AW, Norling Hermansson, LM. Validity evidence for a modified version of the Orthotics and Prosthetics Users' Survey. Disabil Rehabil Assist Technol. 2012;7(6):469-78.

Jarl GM, Norling Hermansson LM. Translation and linguistic validation of the Swedish version of Orthotics and Prosthetics Users' Survey. Prosthet Orthot Int 2009;33(4):329-38.