

## CURRICULUM VITAE

**Family name:** Isoherranen (née Lehtola)

**First name:** Kirsi-Maria

**Title:** MD, PhD

**Date of birth:** 7.6.1972

### Education and/or academic degrees:

MD, University of Turku, 1997

PhD, University of Turku, 1998

Specialist in Dermatology and Allergology 2010, Helsinki University

Special Competence in Wound Management 2016 (Finnish Medical Society)

Fellow of the European Association of Fellows in Wound Healing 3/2021

### Previous positions:

1993            Research assistant, Laboratory of Biotechnology, University of Turku  
 1994-1997    Research assistant, Department of Dermatology, University of Turku  
 1997            General Practitioner, Pöytyä Health Centre  
 1998            Researcher, Department of Dermatology, University of Turku  
 1998            Assistant doctor, Department of Internal Medicine, Vakka-Suomi Hospital  
 1998            Assistant doctor, Department of Dermatology, Turku University Central Hospital  
 1999            Assistant doctor, Skin and Allergy Hospital, Helsinki  
 2000            General Practitioner, Espoonlahti Health Centre  
 2001            Assistant Doctor, Rheumatism Foundation Hospital  
 2001-2002    Principal Investigator, University of Tampere  
 2003-2010    Resident in Dermatology, Skin and Allergy Hospital, Helsinki  
 1.5.-31.7.2021 Clinical Teacher, 35 %, Helsinki University, Dermatology Clinic  
 2011 ->        Specialist in Dermatology, Skin and Allergy Hospital, Helsinki

### Present positions:

Head Physician of the Helsinki Wound Healing Centre, Helsinki University Hospital 1.1.2024 ->  
 European Wound Management Association (EWMA) Council member since 5/2016  
 EWMA President 5/2023 ->  
 UEMS Multidisciplinary Joint Committee Wound Healing Secretary General 4/2021 ->  
 Treasurer of the European Association of Fellows in Wound Healing 3/2021 ->

### Previous positions (positions of responsibility)

Council Member in the Committee of Special Competence in Wound Management 2013-2021  
 (Finnish Medical Society)  
 Chair of the Author Group for Finnish Guidelines for Chronic Leg Ulcers, Duodecim (2019-2021)

**Prizes:**

One of the best articles in Duodecim 2015 (Diagnosis and treatment of actinic keratosis)  
 The Teacher of the year 2021 for residents in Helsinki area (Nominated by the Junior Doctors' Association in Finland)

**Experience of clinical studies:**

2001-2002 Principal Investigator in Espoo, rotavirus and influenzavirus vaccine studies (University of Tampere). During that period many courses concerning GCP.

2011-2012 Investigator in studying the effect of cis-urocanic acid in atopic eczema, multi-centre phase II study, Biocis Pharma

**Publications (in international peer-reviewed journals)**

1. Karppinen J, Kallio M, Lappalainen K, Lagus H, Kilpiö P, Matikainen N, Isoherranen K: Clinical characteristics of Martorell hypertensive ischemic leg ulcers. *J Wound Care* 2023;32(12):797-804.
2. M.O.I.S.T. concept for the local therapy of chronic wounds: An international update. *Int J Low Extrem Wounds* 2024; 4;15347346241245159.
3. Lindholm V, Salmivuori M, Hahtola S, Mäkelä K, Pitkänen S, Isoherranen K (Joint senior authorship): Ablative fractional laser enhances artificial or natural daylight photodynamic therapy of actinic field cancerization: a randomized and investigator-initiated half-side comparative study. *Acta Dermato-Venereologica* 2023;16,103:adv6579.
4. Lindholm V, Annala L, Raita-Hakola A-M, Jeskanen L, Koskenmies S, Pitkänen S, Isoherranen K, Pölönen I, Salmivuori M, Ranki AM: Discriminating basal cell carcinoma and Bowen's disease from benign lesions with a 3D Hyperspectral imaging system and convolutional neural networks. *Skin Res Technol* 2024;30(4):e13677.
5. Lindholm V, Pitkänen S, Schröder M, Hahtola S, Sahi H, Halme H, Isoherranen K: Pulsed Dye laser-mediated photodynamic therapy is less effective than conventional photodynamic therapy for actinic field cancerization: a randomised half-side comparative study. *Acta Derm Venereol* 2021 Feb 19;101(2): adv00404. doi: 10.2340/00015555-3754.
6. Ahmajärvi K, Isoherranen K, Venermo M: Cohort study of diagnostic delay in the clinical pathway of patients with chronic wounds in the primary care setting. *BMJ Open* 2022;12:11:e062673.
7. Lindholm V, Raita-Hakola AM, Annala L, Salmivuori M, Jeskanen L, Saari H, Koskenmies S, Pitkänen S, Pölönen I, Isoherranen K, Ranki A (Joint senior authorship): Differentiating malignant from benign pigmented or non-pigmented skin tumours- a pilot study on 3D hyperspectral imaging of complex skin surfaces and convolutional neural networks. *J Clin Med* 2022 Mar 30; 11(7):1914. doi: 10.3390/jcm11071914.
8. Paoli J, Pölönen I, Salmivuori M, Räsänen J, Zaar O, Polesie S, Koskenmies S, Pitkänen S, Övermark M, Isoherranen K, Juteau S, Ranki A, Grönroos M, Neittaanmäki H: Hyperspectral imaging for non-invasive diagnostics of melanocytic lesions. *Acta Derm Venereol* 2022;102:adv00815. Open access.
9. Isoherranen K, Kluger N, Hannula-Jouppi K, Väkevä L: The role of negative pressure wound therapy (NPWT) in the management of vasculitic wounds: case series of eight patients. *Int J Low Extrem Wounds* 2021. Dec 8: 5347346211063700. doi: 10.1177/15347346211063700.
10. Kluger N, Guillem P, Kivivuori M, Isoherranen K: Hidradenitis suppurativa or hidradenitis suppurativa-like lesions located on amputation stumps? *Skin Appendage Disord* 2020 Jan; 6(1):37-40.

11. Isoherranen K: Post-surgical pyoderma gangrenosum: a retrospective analysis of four clinical cases. *Journal of the European Wound Management Association*. 2019;20: 37-40.
12. Isoherranen K, Kallio M, Jordan O'Brien J, Lagus H: Clinical characteristics of lower extremity ulcers. *Journal of the European Wound Management Association* 2020; 21:51-58.
13. Lindholm VM, Isoherranen K, Schröder MT, Pitkänen ST: Evaluating complications in below-knee skin cancer surgery after introduction of preoperative appointments: A 2-year retrospective cohort study. *Int Wound J* 2020; 17(2): 363-369. Open access.
14. Isoherranen K, Jordan O'Brien J, Barker J ym. Atypical wounds. *Best Clinical Practice and challenges*. *J Wound Care* 2019;1;28 (sup6):S1-S92.
15. Salava A, Isoherranen K. A useful addition to the mnemonic rule of three Is: ADP-atypical wounds, distension and pressure ulcers. *J Wound Care* 2023;32(5):329.
16. Salava A, Isoherranen K. Rule of three I's: a mnemonic aid in undergraduate teaching of lower limb wounds. *J Wound Care* 2021;2;30(12):1030.
17. Ahmajärvi KM, Isoherranen K, Mäkelä A, Venermo M: A change in the prevalence and the etiological factors of chronic wounds in Helsinki Metropolitan area during 2008-2016. *Int Wound J* 2019; 16(2):522-526. Open access.
18. Isoherranen K, Bouchard L, Kluger N: Benefits of intralesional injections of sodium thiosulphate in the treatment of calciphylaxis. *Int Wound J*, 2017; 14(6):955-959. Open access.
19. Laukkanen ML, Mäkinen-Kiljunen S, Isoherranen K, Haahtela T, Söderlund H, Takkinen K: Hevein-specific recombinant IgE antibodies from human single-chain antibody phage display libraries. *J Immunol Methods* 2003; 278: 271-281.
20. Lehtola K, Leino L, Laurikainen L, Ahotupa M, Punnonen K: Antioxidant enzymes are elevated in DMBA-induced neoplastic murine keratinocytes containing an active rasHa oncogene. *J Cancer Res Clin Oncol* 1995; 121: 402-406.8.
21. Punnonen K, Lehtola K, Autio P, Kiistala U, Ahotupa M: Chronic UVB irradiation induces superoxide dismutase activity in human epidermis in vivo. *J Photochem Photobiol B*, 1995; 30:43-48.
22. Isoherranen K, Peltola V, Laurikainen L, Punnonen J, Laihia J, Ahotupa M, Punnonen K. Regulation of copper/zinc and manganese superoxide dismutase by UVB irradiation, oxidative stress and cytokines: *Journal of Photochemistry and Photobiology B*, 1997; 40:288-293.
23. Isoherranen K, Sauroja I, Jansen C, Punnonen K: UV irradiation induces downregulation of bcl-2 expression both in vitro and in vivo. *Arch Dermatol Res* 1999; 291: 212-216.
24. Isoherranen K, Westermarck J, Kähäri V-M, Jansen C, Punnonen K: Differential regulation of the AP-1 family members by UV irradiation in vitro and in vivo. *Cellular Signalling*, 1998; 10: 191-195.
25. Isoherranen K, Punnonen K, Jansen C, Uotila P: Ultraviolet irradiation induces cyclooxygenase-2 expression in keratinocytes. *Brit J Dermatol* 1999; 140: 1017-1022.
26. Leino L, Lehtola K, Punnonen K: Biphasic formation of inositol phosphates in opsonized zymosan-stimulated human neutrophils. *Cellular Signalling* 1995; 7:397-402.
27. Punnonen K, Isoherranen K, Laihia J, Leino L: Effects of prolonged EGF treatment on phospholipid turnover and DAG formation in murine keratinocytes. *Cellular Signalling* 1996; Vol. 8, No. 4, pp. 285-289.