



EPUAP CURRICULUM VITAE

Name Peter Worsley

Work Title Professor of Assistive Technology and Tissue Health

Institution University of Southampton

E-mail P.R.Worsley@soton.ac.uk

Year of joining EPUAP 2012

Relevant publications for the last two years (in English only): 2022-2023 papers included:

- Chaturvedi P, **Worsley PR**, Zanelli G, Kroon W, Bader DL. Quantifying skin sensitivity caused by mechanical insults: A review. *Skin Res Technol.* 2022 Jan;28(1):187-199. doi: 10.1111/srt.13104.
- Crunden EA, Schoonhoven L, Coleman SB, **Worsley PR**. Reporting of pressure ulcers and medical device related pressure ulcers in policy and practice: A narrative literature review. *J Tissue Viability.* 2022 Feb;31(1):119-129. doi: 10.1016/j.jtv.2021.10.010.
- Herniman JM, **Worsley PR**, Greenhill R, Bader DL, John Langley G. Development of ultra-high-performance supercritical fluid chromatography-mass spectrometry assays to analyze potential biomarkers in sweat. *J Sep Sci.* 2022 Jan;45(2):542-550. doi: 10.1002/jssc.202100261.
- Amit Gefen, Paulo Alves, Guido Ciprandi, Fiona Coyer, Catherine T Milne, Karen Ousey, Norihiko Ohura, Nicola Waters, **Peter Worsley**, Joyce Black, Michelle Barakat-Johnson, Dimitri Beeckman, Jacqui Fletcher, Holly Kirkland-Kyhn, Nils A. Lahmann, Zena Moore, Yohan Payan, and Anna-Barbara Schlüer. Device-related pressure ulcers: SECURE prevention. Second edition. *Journal of Wound Care* 2022 31:Sup3a, S1-S72
- Fryer, S., Caggiari, S., Major, D., Bader, D. L., & **Worsley, P. R.** (2022). Continuous pressure monitoring of inpatient spinal cord injured patients: implications for pressure ulcer development. *Spinal cord*, 10.1038/s41393-022-00841-7. Advance online publication. <https://doi.org/10.1038/s41393-022-00841-7>
- Caggiari, S., Bader, D. L., Foxell, F., Pipe, N., Couch, S., Turner, A., & **Worsley, P. R.** (2022). Biomechanical and Physiological Evaluation of Respiratory Protective Equipment Application. *Medical devices (Auckland, N.Z.)*, 15, 241–252. <https://doi.org/10.2147/MDER.S370142>
- Moore, Z., Avsar, P., O'Connor, T., Budri, A., Bader, D. L., **Worsley, P.**, Caggiari, S., & Patton, D. (2022). A systematic review of movement monitoring devices to aid the prediction of pressure ulcers in at-risk adults. *International wound journal*, 10.1111/iwj.13902. Advance online publication. <https://doi.org/10.1111/iwj.13902>
- Crunden, E. A., **Worsley, P. R.**, Coleman, S. B., & Schoonhoven, L. (2022). Barriers and facilitators to reporting medical device-related pressure ulcers: A qualitative exploration of international practice. *International journal of nursing studies*, 135, 104326. <https://doi.org/10.1016/j.ijnurstu.2022.104326>.

Executive Committee Members

- Andrea Pokorná**
President
Czech Republic
- Jan Kottner**
Immediate Past President
Germany
- Alison Porter-Armstrong**
Treasurer
United Kingdom
- Jane Nixon**
Co-Treasurer
United Kingdom
- Lucie Charbonneau**
Annual Meeting Chair
Switzerland
- Tom O'Connor**
Chair Scientific Committee
Ireland
- Dominique Sigaudou-Roussel**
Co-Chair Scientific Committee
France
- Dimitri Beeckman**
Chair Research Committee
Belgium
- Pierre-Yves Rohan**
Co-Chair Research Committee
France
- Steven Smet**
Co-Chair Educational Committee
Belgium
- Beáta Grešš Halász**
Co-Chair Educational Committee
Slovakia

Trustees

- Kirsti Ahmajärvi** (Finland)
Maarit Ahtiala (Finland)
Carina Bååth (Sweden)
Katrin Balzer (Germany)
Dimitri Beeckman (Belgium)
Joan-Enric Torra i Bou (Spain)
Lucie Charbonneau
(Switzerland)
Guido Ciprandi (Italy)
Rosemarie Derwin (Ireland)
Britt Hansen (Denmark)
Beáta Grešš Halász (Slovakia)
Ingebjørg Irgens (Norway)
Ulrika Kallman (Sweden)
Jan Kottner (Germany)
Jane Nixon (UK)
Tom O'Connor (Ireland)
Andrea Pokorna
(Czech Republic)
Alison Porter-Armstrong (UK)
Pierre-Yves Rohan (France)
Dominique Sigaudou-Roussel
(France)
Knaerke Soegaard (Denmark)
Steven Smet (Belgium)
Camilla L.M. Sørensen
(Denmark)
Helen Strapp (Ireland)
Daphne Weihs (Israel)



- Abiakam, N., Jayabal, H., Mitchell, K., Bader, D., & **Worsley, P.** (2022). Biophysical and biochemical changes in skin health of healthcare professionals using respirators during COVID-19 pandemic. *Skin research and technology*.

Advance online publication. <https://doi.org/10.1111/srt.13239>

- Caggiari, S., Keenan, B., Bader, D. L., Mavrogordato, M. N., Rankin, K., Evans, S. L., & **Worsley, P. R.** (2022). A combined imaging, deformation and registration methodology for predicting respirator fitting. *PloS one*, 17(11), e0277570. <https://doi.org/10.1371/journal.pone.0277570>
- Dickinson, Alexander S. PhD; Donovan-Hall, Maggie K. PhD; Kheng, Sisary MSc; Bou, Ky DPO (ISPO Cat II); Tech, Auntouch DPO (ISPO Cat II); Steer, Joshua W. PhD; Metcalf, Cheryl D. PhD; **Worsley, Peter R. PhD** Selecting Appropriate 3D Scanning Technologies for Prosthetic Socket Design and Transtibial Residual Limb Shape Characterization, *Journal of Prosthetics and Orthotics*: January 2022 - Volume 34 - Issue 1 - p 33-43 doi: 10.1097/JPO.0000000000000350
- Jayabal, H., Bader, D. L., & **Worsley, P.** (2023). Development of an Efficient Extraction Methodology to Analyse Potential Inflammatory Biomarkers from Sebum. *Skin pharmacology and physiology*, 36(1), 38–50. <https://doi.org/10.1159/000528653>
- Kottner, J., Clark, M., Black, J. M., Padula, W. V., & Worsley, P. R. (2023). Re: "How Should Clinical Wound Care and Management Translate to Effective Engineering Standard Testing Requirements from Foam Dressings? Mapping the Existing Gaps and Needs" by Gefen et al. *Advances in wound care*, 10.1089/wound.2022.0087. Advance online publication. <https://doi.org/10.1089/wound.2022.0087>
- Metcalf, C. D., Ostler, C., Thor, P., Kheng, S., Srors, S., Sann, R., Worsley, P., Gates, L., Donovan-Hall, M., Harte, C., & Dickinson, A. (2023). Engaging multisector stakeholders to identify priorities for global health innovation, change and research: an engagement methodology and application to prosthetics service delivery in Cambodia. *Disability and rehabilitation*, 1–12. Advance online publication. <https://doi.org/10.1080/09638288.2023.2173313>
- John AJUK, Galdo FD, Gush R, **Worsley PR**. An evaluation of mechanical and biophysical skin parameters at different body locations. *Skin Res Technol*. 2023 Feb;29(2):e13292.
- Hemalatha Jayabal, Nkemjika S. Abiakam, Davide Filingeri, Dan L. Bader and **Peter R. Worsley** (2023) Inflammatory biomarkers in sebum for identifying skin damage in patients with a Stage 1 pressure ulcer at the pelvic region– A single centre observational longitudinal cohort study with elderly patients. *International Wound Journal*.
- Ana S Évora, Nkemjika Abiakam, Hemalatha Jayabal, **Peter R Worsley**, Zhibing Zhang, Simon A, Johnson, Michael J Adams, Dan L Bader (2023) Characterisation of superficial corneocytes in skin areas of the face exposed to prolonged usage of respirators by healthcare professionals during COVID-19 pandemic. *Journal of Tissue Viability*.
- Ledger, L. J., **Worsley, P. R.**, Hope, J., & Schoonhoven, L. (2023). Patient perceptions and understanding of pressure ulcer risk in the community: Empirical Research Qualitative. *Journal of Advanced Nursing*, 00, 1– 12. <https://doi.org/10.1111/jan.15637>
- Abiakam, NS, Jayabal, H, Filingeri, D, Bader, DL, **Worsley, PR.** (2023) Spatial and temporal changes in biophysical skin parameters over a category I pressure ulcer. *Int Wound J*. 2023; 1- 13. doi:10.1111/iwj.14194
- Caggiari, S., Bader, D., Packman, Z., Robinson, J., Tranka, S., Böhning, D., & **Worsley, P.** (2023). Retrospective evaluation of factors affecting successful fit testing of respiratory protective equipment during the early phase of COVID-19. *BMJ open*, 13(5), e065068. <https://doi.org/10.1136/bmjopen-2022-065068>



- Caggiari, S.; Jiang, L.; Filingeri, D.; **Worsley, P.** Optimization of Spatial and Temporal Configuration of a Pressure Sensing Array to Predict Posture and Mobility in Lying. *Sensors* 2023, 23, 6872.

<https://doi.org/10.3390/s23156872>

- Abiakam NS, Jayabal H, Abbas S, Filingeri D, Bader DL, **Worsley PR.** The Effects of Incontinence Pad Application on Loaded Skin With Reference to Biophysical and Biochemical Parameters: An Exploratory Cohort Study Using a Repeated-Measures Design. *J Wound Ostomy Continence Nurs.* 2023 Nov-Dec 01;50(6):512-520.
- Évora, A. S., Abiakam, N., Zhang, Z., Johnson, S. A., Adams, M. J., Bader, D. L., & **Worsley, P. R.** (2023). CHARACTERISATION OF SUPERFICIAL CORNEOCYTE PROPERTIES OVER CATEGORY I PRESSURE ULCERS: INSIGHTS INTO TOPOGRAPHICAL AND MATURATION CHANGES. *Journal of Dermatological Science.* <https://doi.org/https://doi.org/10.1016/j.jdermsci.2023.08.008>
- Mbithi F, **Worsley PR.** Adhesives for medical application - Peel strength testing and evaluation of biophysical skin response. *J Mech Behav Biomed Mater.* 2023 Dec;148:106168.

Please comment on your involvement with pressure ulcers under the following headings:

Clinical

As a physiotherapist (2007 to 2015 clinical academic role with multiple healthcare trusts) I was acutely aware of pressure ulcers and the important role of the multidisciplinary role. During my practice I engaged in the promotion of optimum posture, mobility, and support surfaces to aid patient care. I also had a specific interest in medical device related pressure ulcers, working with teams in critical care and high dependency units to promote tissue health and prevent pressure ulcers.

Scientific research

Worsley leads the Skin Sensing Research Group at the University of Southampton, which since its conception in 2011 (under the leadership of Professor Dan Bader) developed an international reputation for taking new technologies and interventions from lab to clinic in pressure ulcer research. This includes the use of intelligent interfaces to promote self-management of pressure care, new skin assessment methodologies and applied research projects in both acute and community healthcare settings. The Southampton team led the international network 'Medical Devices and Vulnerable Skin', key work packages of the international EU consortium 'Skin Tissue Integrity Under Shear (STINTS)' and have hosted early career researchers from the EPUAP community over the last decade. Worsley is currently on the editorial board of key journals (JTV, Clin Biomech, JRATE), sits on the ISO committee for support surface standards and played an active role in the 2019 and current 2025 international pressure ulcer guidelines. He was the chair of the scientific committee of EPUAP from 2019-2021.

Organizational

Worsley is a trustee of the Tissue Viability Society and an active member of the European Pressure Ulcer Advisory Panel (EPUAP). I am a member of the International Organization for Standardisation for support surface testing (ISO/TC 173/WG11). Here I have co-authored new international definitions, published by ISO (ISO 21856 B.23 "Forces on soft tissues of the human body", July 2019). I have also advised national public bodies, such as the British Healthcare Trades Association, where I have presented to their industrial working group on topics regarding support surface innovation and ISO standards.



Educational

I have been on the steering committee of the National Wound Care Strategy group and worked with NHS England and Improvement, providing national education material (new guidelines and supplementary education material) and clinical training videos for the prevention and treatment of pressure ulcers (Hosted on YouTube, <https://www.youtube.com/@stopthepressure1703>). Allied to my leadership role in the Council of Allied Health Professions Research (detailed in Leadership and Management), I have also offered bi-annual education events to clinicians to facilitate their uptake of research. I also provide education resources and ideas to the other hubs (n=23), working collaboratively through national CAHPR network.

I am the Deputy Programme Lead (0.1 FTE) and musculoskeletal (MSK) lecturer for BSc and MSc Physiotherapy Programmes. I have been at the heart of driving the quality of the physiotherapy programme, with a UK #1 or 2 ranking in the complete university guide and Guardian guide from 2018 to present (four consecutive years as top ranked). As part of my role I have delivered education content specific to posture, mobility and pressure ulcer prevention across health sciences programmes in the department.

Membership of other organisations

Member of the Society of Tissue Viability, ISO standards group for support surfaces, Chartered Society of Physiotherapy (mCSP) and Health and Care Professions Council (HCPC).