

NOSORE project

Pressure ulcer (PU) refers to tissue or skin damage due to prolonged pressure exerted on skin, reducing local blood circulation, and leading to a process of tissue degeneration. In the USA alone, PUs affect 2.5 million people and cause over 60 000 deaths annually. PU incidence is highest in acute care and elderly care institutions. Approximately 60% of the PUs go unnoticed. PUs are estimated to cause a financial burden of \$26 billion yearly in USA; in Finland, this represents a burden of 500 € million. Nevertheless, it is estimated that over 80% of PUs could be prevented, suggesting a large potential to reduce costs through introducing preventive solutions which cost up to 90% less than treatment. Nosore offers a solution to this urgent need to decrease the unnecessary suffering and financial burden associated with PUs. Our goal is to develop a sensor technology device aimed to prevent pressure ulcers based on pressure ulcer risk analysis. Our novel innovation will help nurses to detect early signs of pressure ulcers and helps them act to reduce the risk when needed, which makes the solution cost-effective, informative at several care points.



Nuno Nobre, RN, PhD

Dr. Nobre has over 15 years' experience in emergency nursing. He has worked also in rehabilitation wards. His research work (PhD from Helsinki University in 2018) has focused on patients' quality of life, with special reference to HIV. Dr. Nobre plays a major role in designing the clinical trials and is also the project's main contact person.



Outi Merilahti, MSc, Aalto University

Outi Merilahti has extensive experience in sales and marketing roles in Finland and internationally. She has co-founded a health technology startup, and she has worked in finance technology startup in a commercial role. As a key account manager in an international semiconductor company, she was responsible for over 100 million USD annual sales volume globally. In the present project, Outi's major role is on the commercialization and market issues.