SHERPA

SMART HUMAN-CENTRED EFFORTLESS SUPPORT FOR PROFESSIONAL CLINICAL APPLICATIONS

The SHERPA project aims to significantly **ease the workload of interventional radiologists** (IRs) by providing **advanced assistive technologies powered by artificial intelligence (AI)**. Acting as a trusted companion, these AI-driven tools support decision-making and handle repetitive, time-consuming tasks. This allows IR specialists to focus more on the intervention itself and their interactions with patients.

Leveraging SHERPA's innovative technologies enhances precision, improves patient outcomes, and streamlines workflows, ultimately transforming the landscape of IR.

OUR AMBITION FOCUSES ON:

– Developing a comprehensive, yet tailored **methodological framework** to systematically assess the value of assistive technologies for the healthcare professionals, patients, and the healthcare system
– **Enhancing staff focus and experience** through automated image-guided workflows for neurovascular and oncological interventions
– **Proving the value of automated interventional workflows** for the staff, patients and the healthcare system
– Improving **patient outcomes and support clinical decision-making**

THE PROJECT WILL FOCUS ON TWO USE CASES:

– **Brain Aneurysms:** AI-driven detection, risk prediction, and precise treatment planning.
– **Liver Tumors:** Robotic-assisted thermal ablation for enhanced accuracy and efficiency.

The SHERPA solution will serve as a reliable companion throughout the clinical workflow. The project will carry out **seven clinical studies** to validate its outputs. The SHERPA results and **new standards** in minimally invasive image-guided treatment will be transferrable to other medical specialties. The **methodological framework** will be made available a standardised tool to be used widely in clinical study design.

FACTS AND FIGURES:

Coordinator: Philips Image Guided Therapy
Consortium: Philips image Guided Therapy (NL), Philips France Commercial (FR), Medtronic Iberica (ES), Sim&Cure (FR), Isys Medizintechnik (AT), Barco (BE), Universitair Medisch Centrum Utrecht (NL), Universitaetsklinikum Hamburg-Eppendorf (DE), Assistance Publique Hopitaux de Paris (FR), Fundacio de Gestio Sanitaria de l'Hospital de la Santa Creu i Sant Pau (ES), Cardiovascular and Interventional Radiological Society of Europe (AT), HFC Human-Factors-Consult (DE), Technische Universiteit Eindhoven (NL), European Institute for Biomedical Imaging Research (AT), Stichting Sint Antonius Ziekenhuis (NL), European Society of Minimally Invasive Neurological Therapy (CH)
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