VR-MTB - Virtuelle Tumorboards verbessern diagnostische Präzision

The VR-MTB project, hosted at the European Campus Rottal-Inn (ECRI) of the Deggendorf Institute of Technology, is set to transform the efficacy of tumor board sessions, which are vital for collaborative decision-making in cancer treatments. Utilizing advanced XR technology, the project addresses common challenges like fragmented data sources and restricted time, which currently hinder MTB processes. The VR-MTB platform will allow healthcare professionals to interact with comprehensive patient data in a fully immersive environment, significantly enhancing diagnostic accuracy and treatment planning. It will utilize AI applications and interoperability standards in order to automate patient summaries and seamlessly integrate them into Electronic Health Record systems. Supported by the German Federal Ministry of Education and Research, this initiative aims to substantially advance cancer care.

Eckdaten

Kurztitel

VR-MTB

Forschungsschwerpunkt

Healthcare and Quality of Life

Laufzeit

01.03.2025 - 31.01.2028

Fördergeber

Bundesministerium für Bildung und Forschung (BMBF)

Projektleitung

Prof. Dr. med. Georgi Chaltikyan

Ziele

- Developing an innovative XR-based platform tailored for Multidisciplinary Tumor Board (MTB) sessions
- Integrating clinical, laboratory, imaging, and patient data into a unified virtual environment
- Enhancing the visualization and interaction with 3D medical images and patient data, aiding effective decision-making in cancer treatment
- Incorporating AI-driven tools to streamline data integration and improve collaboration during MTB sessions

GEFÖRDERT VOM
Bundesministerium für Bildung und Forschung