

Inteleos Research Network

The Inteleos Research Network (IRN) welcomes you to the first of our quarterly updates. These updates will provide information on projects underway and plans for the near future.

CURRENT RESEARCH PROJECTS

"My First Scan" VR Tutorial for

Inteleos/Vantari VR Modules The IRN worked with Vantari VR and Inteleos to execute Virtual Reality usability sessions for the "My First Scan" VR experience.

Both organizations feel that the first in-headset experience is critical, so dedicated extra time and resources to ensuring that this experience leaves students with an understanding of the virtual environment and the VR controllers while feeling that they have successfully completed their first ultrasound scan in virtual reality.



sonography (DMS) programs at the Chippewa Valley Technical College in Eau Clair, WI; Montgomery College in Takoma Park, MD; and Seattle University in Seattle, WA in September and October

2024. Data and input from these sessions is being used to improve

the user experience and fine tune user interactions.

Abdominal Ultrasound Anatomy and Basic Scanning Protocol Modules in VR

Basic Scanning Protocol Modules and worked through the AB draft VR modules to collect sample images. This feedback is being incorporated into our VR modules, particularly focusing on user feedback mechanisms and scoring systems.

Abdominal (AB) Sonography Subject Matter Experts (SMEs) pro-

vided valuable input on our Abdominal Ultrasound Anatomy and



gettyimages Credit: piranka

TURE PROJECTS



on "My First Scan" experiences

for remaining three AB modules

cluding anatomical variations and pathologies

Call for Participation coming in early 2025

Focus on anatomy and basic scanning protocols

ly visited programs

user feedback

Conducting usability research for the Aorta VR module, building

Research will include in-headset "talk-aloud" sessions, observa-

Module design will be finalized by end of November based on

Q1 2025: Completion of anatomy and basic scanning protocols

2025: Collaboration with SMEs to develop additional content, in-

tion, data collection, and debriefing with DMS students at previous-

gettyimages Credit: alvarez

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Credit: AndreyPopov

OB/GYN VR Module Development

Features include transvaginal scanning and fetal movement

VR Program Enhancements and Technical

Identifying and prioritizing key components for VR program growth

- Working to eliminate gaming laptop requirements for standalone headset experiences
 Planning customized content for diverse audiences:

 Practicing sonographers
 POCUS providers
 Global healthcare providers

 Expanding content areas over time
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and access, including:

Research Proposal Invitation

Contrast-enhanced ultrasound (CEUS)

NLP/Generative Al integration in simulations

Developments

Developing additional virtual patients

Novel simulation-based testing approaches

The IRN welcomes innovative research proposals exploring

emerging technologies to advance global healthcare education

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If you'd like to learn more about any of these initiatives or

would like to discuss a research proposal, please contact

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Inteleos Research Network

Best regards,

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