

The Use of the Metaverse in Fetal Medicine for Multidisciplinary Discussion and Medical Education

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Objective

To implement the use of the metaverse for multidisciplinary discussion and medical education in fetal medicine.

Methods

The initial phase involved training 22 students and 10 specialists from different disciplines through real-time multidisciplinary discussions and teaching sessions conducted without geographical constraints. The platform enabled features ranging from the visualization of sequential 2D imaging slices to shared navigation within a 3D organ model. These experiences were developed using the Spatial.io platform, which supports a wide range of devices. The cases analyzed were derived from ultrasound (US) and magnetic resonance imaging (MRI) datasets. First- and second-trimester cases were discussed using US, while third-trimester cases were evaluated using both US and MRI.

Results

The mean age of the students was 26 years, and that of the specialists was 39 years. For both groups, the use of the metaverse facilitated an improved understanding of the clinical cases. The ability to interact in real time between students and specialists without geographical barriers was identified as the most valuable feature of the platform.

Conclusion

The metaverse is an emerging technology that introduces new possibilities for communication in the medical field. It has significant potential as a digital tool to support education and to enhance collaboration and understanding within multidisciplinary teams managing complex fetal cases.



Multidisciplinary discussion and medical education in the Metaverse.

