# XHUM3D: Application of Web 2.0, Web3.0 and Visualization Technology Towards Educational Reform in Medicine

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## Abstract

Medical education and training methods vary considerably across the world. Increasingly, medical education around the world is being supported by online technologies, like Learning Management Systems or Virtual Learning Environment. Also medical researchers widely use online tools in combination with traditional approach in medical education.

Advance Medical Visualization Technology and Semantic Knowledgebase act as a powerful and game-changing technique towards creation of new approach in interactive education, focusing at promoting auto-didacticism, whereby all facilities in medical education and research are provided on the web. The platform enable the end-user to learn visually, share effectively and interact ideally with the combination of web 2.0 and even web 3.0 technologies. Human body digital visualization in manipulative environment coupled with related medical semantic knowledge base accompanied by managed social networking, document sharing, federated search with semantic support through standard medical nomenclature ontology will be major specification provided for an optimized tool for medical researchers, students, doctors, lawyers, and forensic experts to gain and share information, experiences and manipulate digital presentation of a real human body and extend their information to knowledge.