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OSF HealthCare Children's Hospital of Illinois Launches Enduvo Learning Platform To Better Prepare for Complex Procedures

Virtual reality learning experiences lead to greater understanding and discoveries.

April 10, 2019 - Chicago, IL - Enduvo, the leading immersive content authoring and delivery platform for healthcare, mechanical, and technical industries, today announced OSF HealthCare Children's Hospital of Illinois, part of Peoria, Illinois-based OSF HealthCare, is using its software to add experiential instruction to help pediatric cardiologists, pediatric heart surgeons, and nurses improve care for patients. Enduvo allows users to import 3-D models and medical images, enabling the creation of virtual reality (VR) experiences. Once inside the virtual room, medical teams can explore a patient's anatomy. They can expand the virtual model of the heart, view it from any angle, overlay 2-D x-rays on the model, and record their observations.

"Educating a surgical team about a patient's condition using this technology helps to minimize the surgical time in the operating room and helps to reduce patient stress," said Dr. Mark Plunkett, Chief, Pediatric and Congenital Heart Surgery, OSF Children's Hospital of Illinois. "With Enduvo, we are able to thoroughly explore and learn about our patients' heart conditions in a 3-D real-world like environment. We can easily import 3-D images of our patient's heart. Once inside Enduvo, we interact with the 'virtual heart' imaging and can expand, walk through, and explore to better learn about our patient's condition. We can narrate our observations and then provide guided tours of the patient's heart to educate the surgical team, our patient and their family before a procedure."

The success of Enduvo within the pediatric cardiology team has led OSF Children's Hospital to expand the use of Enduvo to help patients understand their medical conditions and to develop curriculums for nurses about heart defects and other topics. "We are just at the beginning of using this technology," said Kristi Ryan, APN, Adult Congenital Heart Program, OSF HealthCare Children's Hospital of Illinois. "We see tremendous potential for applying Enduvo to a variety of topics. Having people be able to experience what they are learning will allow us to better prepare our nurses for their jobs at the hospital."

Recent advances in 3-D printing allow cardiologists to create replicas of their patient's heart and use these models to strategize patient care options, educate medical teams, and minimize time in addressing complex procedures. "However, 3-D printing has its limitations," said Dr. Matt Bramlet, a pediatric cardiologist and co-founder of Enduvo. "The models are not scalable and it is hard to see anatomical relationships. Virtual reality extends the use of a cardiac model by allowing doctors to walk through the heart and see how different structures connect and might interact. Building VR content has traditionally been a costly and out-of-reach endeavor. However, with Enduvo's immersive teaching and learning platform, anyone can create and share augmented and virtual reality content in minutes without any coding experience."



About Enduvo

Enduvo is a powerfully simple, immersive, content authoring and delivery platform for training healthcare, mechanical, and technical industries. Enduvo removes the complexity, inflexibility, and high cost associated with creating augmented and virtual reality content. Its' market-leading platform allows anyone to create and share AR/VR content in minutes, without any technical training, and at a fraction of the previous cost. Experts "jump in", produce content, and narrate the experience. Learners gain knowledge directly from experts through immersive, one-on-one experiences. People are more engaged, retain more information in less time, and are better prepared for the work they do. Enduvo originated within the University of Illinois College of Medicine. To find out more about how to use Enduvo at your organization, [visit www.enduvo.com](http://www.enduvo.com).

About OSF HealthCare Children's Hospital of Illinois

OSF HealthCare Children's Hospital of Illinois in Peoria is the third largest pediatric hospital in Illinois and the only full-service tertiary hospital for kids downstate. With 136 beds and more than 141 pediatric subspecialists, OSF Children's Hospital cares for more children in Illinois than any hospital outside of Chicago. Formally established as a pediatric hospital within the walls of OSF HealthCare Saint Francis Medical Center in 1990, OSF Children's Hospital has over 7,000 admissions; 2,500 newborn deliveries, and 18,000 emergency department visits each year. More at <https://www.osfhealthcare.org/childrens/>.

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