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Standley Systems Donates 3-D Printing Machine to the Department of Pediatric Cardiology Through Children's Hospital Foundation

Immediate advancements to be made in pediatric cardiology for children of Oklahoma

OKLAHOMA CITY (April 26, 2017) – Standley Systems, a technology company based in Chickasha, Oklahoma, provided a vital piece of equipment that will help improve outcomes for Oklahoma's children with heart complications can stay in the state to receive treatment. The 3-D printing machine has an estimated worth of over \$100,000 was unveiled this week. The machine has the ability to make an exact replica of organs that doctors can use to plan surgery and practice operations. This printer uses images from patient's MRI or CT scan as a template and molds the complex layers of material creating the overall model of the organ.

The Children's Hospital will be one among few hospitals in the United States to have a printer with these capabilities.

"Children's Hospital is excited to be able to utilize this technology in an effort to assist our pediatric cardiologists and cardiothoracic surgeons in diagnosing and planning interventions for children throughout Oklahoma and beyond," said Jon Hayes, CEO of The Children's Hospital. "Previously, these efforts were undertaken utilizing only the more traditional 2-D modalities. This greatly enhances our providers understanding and interpretation of the anatomical abnormalities, and most importantly, it leads to better care and outcomes for our patients."

Surgeries that were thought to be inoperable due to the lack of information can now be performed because of the new technology allowing doctors to map out a clear plan for surgery. Not only is it beneficial for pediatric cardiologists, the models will help train other surgeons and medical students on complicated procedures that surgeons face.

"3D printing produces patient specific models of the heart with high accuracy," Kumar Ponniah, M.D., Assistant Professor in Pediatric Cardiology at University of Oklahoma Health Sciences Center. "This in turn will enable our cardiac surgeons to understand the complex nature of the cardiac anomaly better, help them to create a road map for surgical planning, and hopefully improve outcomes for our patients. For the same reason, this will also help our interventional cardiologists to plan their interventions, such as closing holes with devices and opening up narrowed vessels with stents."

The printer will be the first of this kind in the state and will enhance the understanding of congenial heart disease, especially ones with complex malformations, which would require major heart surgery.

“We are thankful for the generous and thoughtful donation from Standley Systems,” said Chip Keating, President-Elect of Children’s Hospital Foundation. “3-D printers in general are quite expensive and without the support of institutions like Standley, it would be difficult to raise money to support such an endeavor.”

Standley Systems, founded in 1934 as The Fred Standley Typewriter Company in Chickasha, Oklahoma, is a leader in technology for state agencies and commercial businesses across Oklahoma. In fact, they serve all 77 Oklahoma counties, from Adair to Woodward.

Children’s Hospital Foundation raises funds to support pediatric cardiology and cardiac surgery programs in addition to many pediatric research and education programs.

“The specialists we support serve children in every county in Oklahoma with more than 233,000 patient encounters annually,” said Kathy McCracken, CHF Executive Director. “All funds raised through Children’s Hospital Foundation stay in Oklahoma so children will have access to exceptional pediatric specialists without having to leave the state. “

To support Children’s Hospital Foundation, please call 405-271-2260 or visit www.chfkids.com

ABOUT US:

Children’s Hospital Foundation is a nonprofit 501c (3) organization in Oklahoma improving the health of children. Since its inception in 1983, Children’s Hospital Foundation, through its volunteer board, vast community support, and the Children’s Miracle Network Hospitals campaign has funded pediatric research and education programs including collaborative projects with the OU Department of Pediatrics, The Children’s Hospital at OU Medical Center, OU Children’s Physicians and the University Hospitals Authority and Trust. For more information, contact Chief Executive Officer Kathy McCracken at 405.650.1718 or visit our website: www.chfkids.com

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