



## East Tennessee Children's Hospital Installs Masimo Patient SafetyNet™ System



---

### Installation Is Part of the Organization-Wide Conversion to Masimo SET® Pulse Oximetry and Use of rainbow® Pulse CO-Oximetry™ for Advanced Patient Monitoring.

East Tennessee Children's Hospital, one of four hospitals in Tennessee (USA) to be certified as a Comprehensive Regional Pediatric Center, and Masimo today announced that the hospital has deployed Masimo Patient SafetyNet™, clinically shown to help improve patient outcomes and save money.<sup>1</sup>

The installation at East Tennessee Children's is part of the leading pediatric healthcare organization's standardization to Masimo SET® Measure-Through Motion and Low Perfusion pulse oximetry and rainbow® Pulse CO-Oximetry.

"We are excited about the extra layer of safety for our postoperative patients for inpatient surgery," said Debi Dobbs, Nurse Manager at East Tennessee Children's Hospital. "It's especially beneficial for those patients who suffer from respiratory depression, and we are exploring placing the Patient SafetyNet system in additional units."

East Tennessee Children's joins a growing list of prominent health systems using Patient SafetyNet, which can help ensure patients' safety by noninvasively and continuously measuring and tracking their underlying physiological conditions and detect changes or abnormalities that signal declining health status in real-time. When changes occur in the measured values, which may indicate deterioration in the patient's condition, the system automatically sends wireless alerts directly to clinicians – prompting a potentially lifesaving response to the patient's bedside. Patient SafetyNet also has been clinically shown to reduce preventable and costly rescue events and transfers to intensive care units.<sup>1</sup>

In addition, East Tennessee Children's Hospital patients will benefit from breakthrough rainbow® technology that allows clinicians to noninvasively measure multiple blood constituents, respiration rate, and other physiological parameters. Parameters in use at East Tennessee Children's include total hemoglobin (SpHb®) in operating rooms, in addition to the Measure-Through Motion and Low Perfusion performance of Masimo SET® oxyhemoglobin (SpO<sub>2</sub>), perfusion index (PI), and pulse rate (PR). The pulse oximetry standard-of-care at leading hospitals worldwide, Masimo SET® virtually eliminates false alarms<sup>2</sup> and increases a clinician's ability to detect life-threatening events.<sup>3</sup>

Masimo's SpHb enables clinicians to monitor hemoglobin and trending noninvasively and continuously,<sup>4</sup> and

has been clinically shown to help anesthesiologists reduce the frequency of unnecessary blood transfusions,<sup>5</sup> which carry risks that include a significant link to mortality and infection.<sup>6</sup>

"There is no higher calling in medicine than to offer the best care possible for children, and East Tennessee Children's Hospital has shown that caring for children is its top concern," said Joe Kiani, founder and CEO of Masimo. "We are delighted to be partnering with East Tennessee Children's Hospital to help protect young patients, improve outcomes, and reduce costs."

#### References:

1. Taenzer A, Blike G, McGrath S, Pyke J, Herrick M, Renaud C, Morgan J. "Postoperative Monitoring – The Dartmouth Experience." Anesthesia Patient Safety Foundation Newsletter Spring-Summer 2012. Available online
2. Shah N, Ragaswamy H, Govindugari K, Estanol L. "Performance of three new-generation pulse oximeters during motion and low perfusion in volunteers." *Journal of Clinical Anesthesia*. 2012 (10.1016/j.jclinane.2011.10.012) Available online here
3. Taenzer, Andreas H.; Pyke, Joshua B.; McGrath, Susan P.; Blike, George T. "Impact of Pulse Oximetry Surveillance on Rescue Events and Intensive Care Unit Transfers: A Before-and-After Concurrence Study." *Anesthesiology*, February 2010, Vol. 112, Issue 2. Available online here
4. Frasca D., Dahyot-Fizelier C., Catherine K., Levrat Q., Debaene B., Mimoz O. "Accuracy of a Continuous Noninvasive Hemoglobin Monitor in Intensive Care Unit Patients." *Crit Care Med*. 2011 Oct;39(10):2277-82. Available online here.
5. Ehrenfeld JM, Henneman JP, Sandberg WS. "Impact of Continuous and Noninvasive Hemoglobin Monitoring on Intraoperative Blood Transfusions." *American Society Anesthesiologists*. 2010;LB05
6. Marik, P. E. and H. L. Corwin (2008). "Efficacy of red blood cell transfusion in the critically ill: a systematic review of the literature." *Crit Care Med* 36(9): 2667-74.

Source: Masimo via [PR Newswire](#)

Published on : Fri, 5 Apr 2013