Masimo SET®: Advancing Patient Safety

The accuracy and reliability of Masimo SET® pulse oximetry has been studied in challenging conditions.

> Masimo SET® pulse oximeters detected approximately 10 times more true events than other “Next Generation” pulse oximeters studied.¹,²

> Researchers showed time to reliable oxygen saturation readings during neonatal resuscitation was approximately 50 seconds faster using Masimo SET® than using other pulse oximetry technologies.³

> In a PACU, Masimo SET® had a greater than 50% reduction in false alarms compared to other pulse oximetry technology.⁴

> In two NICU settings, Masimo SET®, coupled with changes in clinical practice, showed significantly reduced rates of severe retinopathy of prematurity (ROP) and decreased the need for laser treatment to 0%.⁵,⁶

> In a study of 39,821 infants, CCHD screening sensitivity increased from 63% with physical exam alone to 83% with physical exam and Masimo SET® pulse oximetry.⁷

> In a study of 122,738 infants, critical congenital heart disease (CCHD) screening sensitivity increased from 77% to 93% with the combined use of Masimo SET® and clinical assessment.⁸

> On a post-surgical unit, rescue calls and ICU transfers were reduced by 65% and 48%, respectively, after the implementation of continuous surveillance monitoring with Masimo SET®.⁹


“I saw and was conquered. I was not able to defeat the Masimo SET® pulse oximeter using all the motion and low pulse tricks I know. This technology is most impressive and should be available in all oximeters.”

John Severinghaus, M.D.
Professor of Anesthesiology, Emeritus
University of California, San Francisco
Clinical Studies: The Performance of Masimo SET®

**CCHD Screening**

> When combined with clinical assessment, Masimo SET® improved critical congenital heart disease (CCHD) screening sensitivity to 93%


**Retinopathy of Prematurity**

> Masimo SET®, coupled with changes in clinical practice, led to a significant reduction in rates of severe Retinopathy of Prematurity (ROP)


**Performance During Motion and Low Perfusion**

> Masimo SET® had 3% missed true alarms and 5% false alarms versus 43% and 28%, respectively, using competitor technology


*Results shown are calculated by combining sensitivity and specificity outcomes of machine-generated and volunteer-generated motion.*

Caution: Federal (USA) law restricts this device to sale by or on the order of a physician. See instructions for use for full prescribing information, including indications, contraindications, warnings, and precautions.