

# Masimo SET®: Reduce Costs and Improve the Process of Care



**“Implementation of surveillance with pulse oximetry was associated with a reduced need for patient rescue and intensive care unit transfer.”<sup>4</sup>**

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## Published studies demonstrate efficiency gains with the implementation of Masimo SET® pulse oximetry across clinical settings

### With Masimo SET® Pulse Oximetry

Includes reduction in sensor usage, arterial blood gas testing, oxygen requirements, and false alarms

34% Reduction in arterial blood draws in critically ill patients<sup>1</sup>

40% Reduction in oxygen requirements in the ICU setting<sup>2</sup>

93% Reduction in false alarms with higher specificity<sup>3</sup>

### With Masimo Patient SafetyNet™\* Continuous Monitoring System

Based on a 36-Bed Orthopedic Unit

65% Reduction in rapid-response rescues with implementation of patient surveillance monitoring system<sup>4,5</sup>

48% Reduction in ICU transfers following piloting of Patient SafetyNet in the general ward<sup>4,5</sup>

<sup>1</sup> Durbin C.G. Jr., Rostow S.K. More Reliable Oximetry Reduces the Frequency of Arterial Blood Gas Analyses and Hastens Oxygen Weaning after Cardiac Surgery: A Prospective, Randomized Trial of the Clinical Impact of a New Technology. *Crit Care Med.* 2002 Aug;30(8):1735-40. <sup>2</sup> Patel D.S., Rezkalla R. Weaning protocol possible with pulse oximetry technology. *Advance for Resp Care Managers.* 2000; 9(9):86. <sup>3</sup> Shah N., Ragaswamy H.B., Govindugari K., Estanol L. Performance of Three New-Generation Pulse Oximeters During Motion and Low Perfusion in Volunteers. *J Clin Anesth.* 2012;24(5):385-91. <sup>4</sup> Taenzer A.H., Pyke J.B., McGrath S.P., Blike G.T. Impact of pulse oximetry surveillance on rescue events and intensive care unit transfers: a before-and-after concurrence study. *Anesthesiology.* 2010;112(2):282-287. <sup>5</sup> Taenzer A.H., Blike G.T. *APSF Newsletter* 2012. Available at: [http://www.apsf.org/newsletters/html/2012/spring/01\\_postop.htm](http://www.apsf.org/newsletters/html/2012/spring/01_postop.htm). Accessed June 14, 2012. <sup>6</sup> Dasta J.F., et al. Daily cost of an intensive care unit day: the contribution of mechanical ventilation. *Crit Care Med.* 2005 Jun;33(6):1266-71. <sup>7</sup> Wunsch H, et al. ICU Occupancy and mechanical ventilator use in the United States. *Crit Care Med.* 2013 Dec;41(12):2712-9. \* The use of the trademark Patient SafetyNet is under license from University Health System Consortium.



# Potential for Reduced Costs with Implementation of Continuous Patient Surveillance with Masimo SET®

Potential Annual Cost Savings with Masimo SET® Pulse Oximetry and Patient SafetyNet	
Reduction in Arterial Blood Gas Testing <sup>1</sup> (Masimo SET® compared to conventional pulse oximetry)	\$77,520 <sup>†</sup>
Reduction in Ventilator Time <sup>2, 6, 7</sup> (Masimo SET® compared to conventional pulse oximetry)	\$266,450 <sup>†</sup>
False Alarm Distraction Productivity Savings <sup>3</sup> (Masimo SET® compared to conventional pulse oximetry)	\$180,180 <sup>†</sup>
Reductions in ICU Transfers in 36-Bed Step-down Unit Due To Continuous Surveillance Monitoring with Patient SafetyNet, Including SET® Pulse Oximetry <sup>4, 5</sup>	\$1,479,012
<b>Total Potential Annual Cost Savings</b>	<b>\$2,003,162</b>

**Masimo SET® + Patient SafetyNet: More than \$2 Million in Potential Annual Cost Savings**

<sup>†</sup>Estimates based on a 250-bed hospital model

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.

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