

CASE STUDY

Impact of Using Replacement Tapes with Single-Patient-Use Sensors

Location	Children's Minnesota (Minneapolis, MN)
Clinical Setting	Pediatric and critical care divisions
Chief Nursing Officer	Pamala VanHazinga
Clinical Implementation Specialist	Allan Palmer
Masimo Technology	Single-patient-use SET® pulse oximetry sensors with replacement tapes/wraps

The Problem

Pulse oximetry is a standard of care across various care areas and a key indicator of patient status. While single-patient-use pulse oximetry sensors are designed to protect patients and staff from the risk of cross-contamination, excessive use may lead to cost and waste concerns. Consequently, caregivers may be inclined to recheck sensor sites less frequently and leave the same sensor on the site longer to avoid replacing it—which can adversely impact patient safety and comfort.

The Solution

Replacement tapes are intended to maximize sensor life, allowing clinicians to continue using the main components of a sensor and replace only the adhesive components when necessary. Children's Minnesota instituted the use of replacement tape with single-patient-use sensors and monitored sensor usage and cost over a period of 12 years.

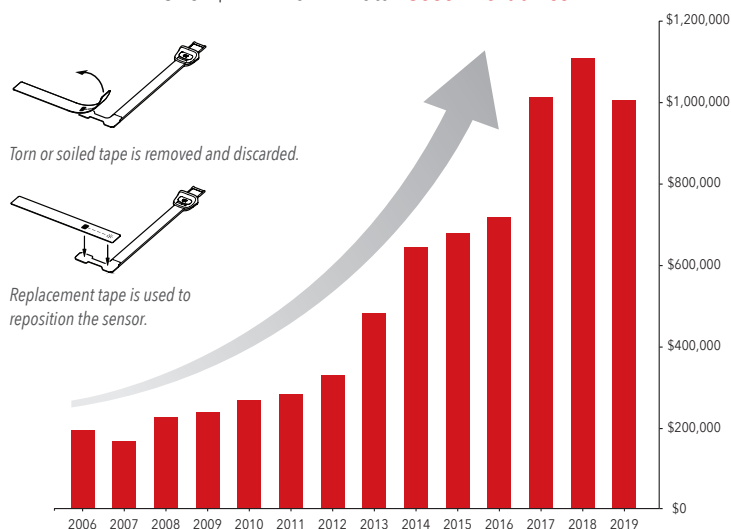
Clinical Benefits

Replacement tapes are convenient, easy to use, and help avoid the need to use multiple sensors per patient—allowing clinicians to recheck sensor sites freely or adjust for patient comfort without concern for sensor replacement.

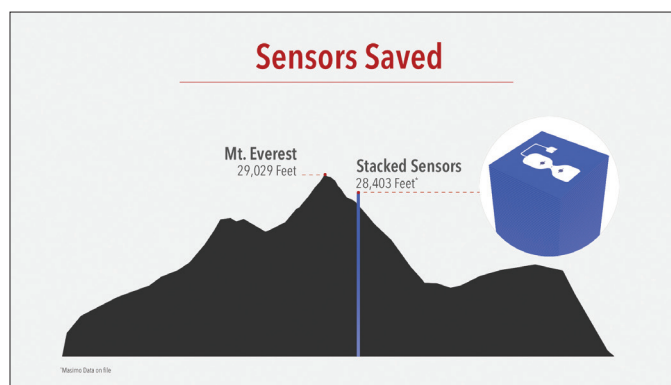
Cost Efficiencies

Children's Minnesota's replacement tape strategy has contributed to increased sensor longevity as well as a reduction in healthcare costs and medical waste. Each time a sensor is re-taped rather than replaced, one less sensor is used. Over the 12-year period, the use of replacement tape resulted in a total cost avoidance of over seven million dollars.

Over \$7 Million in Total **Cost Avoidance**



Sensors Saved



"Being able to remove or reposition sensors in our pediatric environment is important to the clinical team who are concerned about obtaining accurate data, patient comfort, and preventing skin breakdown in our fragile population. Staff can reposition or replace sensors easily with less concern for cost and waste generation."

Pamala VanHazinga, CNO

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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