Smart Capnography for Improved Patient Care

To get a complete picture of respiratory status, it is essential to know if a patient is having recurring apneic and oxygen desaturation events. Apnea-Sat Alert provides an automated method of tracking these events anytime the patient is being monitored by the Capnostream® 20p bedside patient monitor.* Repetitive apneas and desaturations may characterize an undiagnosed cardiopulmonary condition, and identification could provide information that is critical for the patient's course of care. Apnea-Sat Alert is approved for use in adult patients.**

Apneas per Hour and the Oxygenation Desaturation Index

Apnea-Sat Alert is part of the Smart Capnography™ family of innovative algorithms and is engineered to enhance the use of CO₂ monitoring on Microstream*-enabled products to improve patient safety and clinical workflow.

The Apnea-Sat Alert algorithm reports apnea and oxygen desaturation events and calculates the associated Apnea Per Hour (A/hr) and Oxygenation Desaturation Index (ODI) for adult patients. By using Apnea-Sat Alert, clinicians are able to identify and quantify recurrent apnea and oxygenation desaturation events anywhere patients are being monitored with the Capnostream 20p bedside patient monitor*, including the ICU or general care floor.

*Capnostream 20p patient monitor must be equipped with optional Apnea-Sat Alert software.
**Apnea-Sat Alert is FDA cleared for adults 22 years of age or older.
Understanding the Apnea-Sat Alert

The A/hr and ODI home-screen values provide clinicians with a continuous display of the patient’s apneic and oxygen desaturation events over the last hour. Using the apnea and oxygen desaturation report, clinicians can monitor changes or trends in these measures, over user-selectable time periods of two, four, eight or 12 hours.

- **A/hr** is the number of cessations of breathing of 10 seconds or more that have occurred per hour. In addition to the total apneas per hour, Apnea-Sat Alert provides a breakdown of the duration ranges of apneic events, lasting 10-19 seconds, 20-30 seconds and >30 seconds.

- **ODI** is the number of times per hour that the SpO₂ drops 4 percent or lower from baseline and returns to baseline in 240 seconds or less.

Asterisk indicates apnea count has exceeded set threshold during the last 12 hours and clinician should view trend data.