

TECHNOLOGY THAT GIVES YOU THE COMPLETE PICTURE

Apnea-Sat Alert™ Algorithm



APNEA-SAT ALERT™ ALGORITHM INTENDED BENEFITS

- Automatically displays apnea and desaturation events during past hour*
- No additional equipment or patient connections required
- Printed summary and trended results available
- May help clinicians identify the need for increased patient surveillance or intervention

* Display appears after patient has been monitored for 1 hour.

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™ algorithm provides an automated method of tracking these events any time the patient is being monitored by a Microstream™ capnography bedside 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™ algorithm is approved for use in adult patients.*

Apneas per hour and the oxygenation desaturation index

Apnea-Sat Alert™ algorithm is part of the Smart Capnography™ family of innovative algorithms and is engineered to enhance the use of CO₂ monitoring on Microstream™ technology-enabled products.

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™ algorithm, clinicians may be able to identify and quantify recurrent apnea and oxygenation desaturation events.

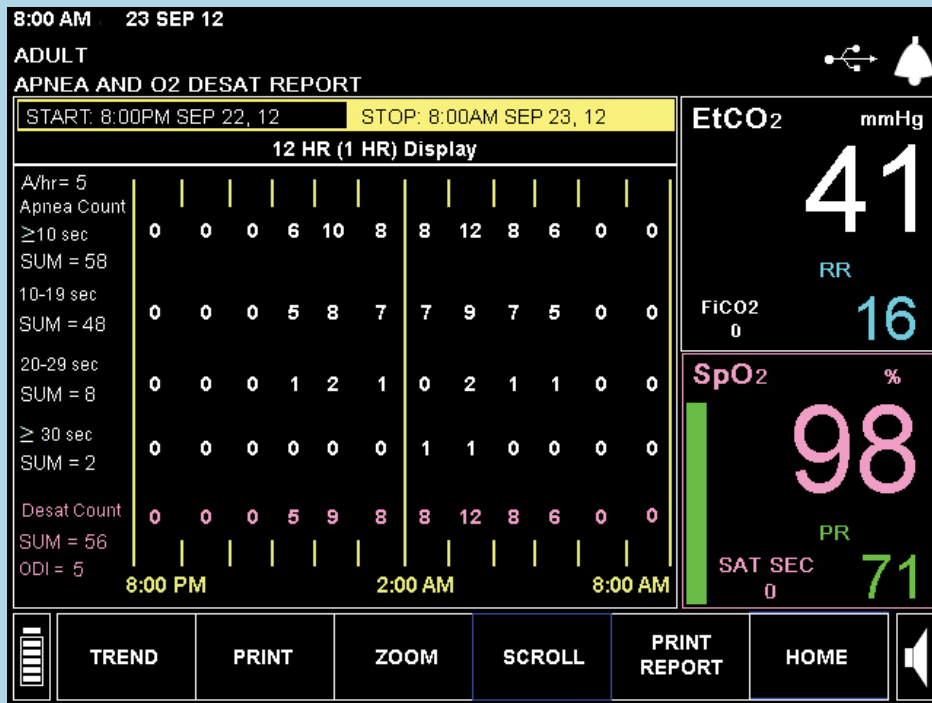
APNEA AND O₂ DESAT REPORT

APNEA AND O ₂ DESAT REPORT			
CASE ID: ANH SIMON ADULT			
ZOOM SELECTED: 12 Hours			
START:	8:00 PM	SEP 22, 12	
STOP:	8:00 AM	SEP 23, 12	
Apnea Count (sec)			
≤ 10			58
10 - 19			48
20 - 29			8
≥ 30			2
Desat Count			
			58
A/hr Over 12 Hours			
			5
ODI Over 12 Hours			
			5

		Apnea Count	Desat Count
		≥ 30	
		sec	
SEP 22, 12			
8:00 PM	9:00 PM	0	0
9:00 PM	10:00 PM	0	0
10:00 PM	11:00 PM	0	0
SEP 23, 12			
11:00 PM	12:00 AM	6	5
12:00 AM	1:00 AM	10	9
1:00 AM	2:00 AM	8	8
2:00 AM	3:00 AM	8	8
3:00 AM	4:00 AM	12	12
4:00 AM	5:00 AM	8	8
5:00 AM	6:00 AM	6	6
6:00 AM	7:00 AM	0	0
7:00 AM	8:00 AM	0	0
SEP 23, 12			

*Apnea-Sat Alert™ Algorithm is FDA cleared for adults 22 years of age or older.

Apnea and Oxygen Desaturation Report



Apnea and Oxygen Desaturation Display



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



Understanding the Apnea-Sat Alert™ Algorithm

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 2, 4, 8, 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™ algorithm 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% or lower from baseline and returns to baseline in 240 seconds or less.

medtronic.com*

*This is a global website. It is not specific to Canada.

Claims made throughout this brochure are based on clinical trials.

© 2016 Medtronic. All rights reserved. Medtronic, Medtronic logo and Further, Together are trademarks of Medtronic.

™* Third party brands are trademarks of their respective owners. All other brands are trademarks of a Medtronic company.

Currently licensed under Covidien LLC. Manufactured by: Covidien LLC, 15 Hampshire Street, Mansfield, MA, 02048 USA.

CA-PMR-0094-E Rev. 06/2016

8455 Trans-Canada Highway
Saint-Laurent, Quebec H4S 1Z1

877.664.8926 [t]
800.567.1939 [f]

Medtronic