



## Because every breath matters

### Microstream® CO<sub>2</sub> FilterLine® sampling lines

The sooner you know about changes in a patient's ventilation status, the more you can assess respiratory depression. That's why both the American Society of Anesthesiologists (ASA) and American Heart Association (AHA) recommend that waveform capnography be used to continually observe etCO<sub>2</sub> during resuscitation and sedation. Why capnography? Because it provides an early indication of respiratory compromise.<sup>1</sup>

Philips Microstream etCO<sub>2</sub> FilterLine sampling lines and Microstream IPI software make it easy to use capnography to quickly assess and respond to adverse respiratory events. We deliver a broad range of quality FilterLine sampling lines for monitoring both intubated and non-intubated patients in the ICU and beyond. Philips Microstream FilterLine products are validated for all equipment using Microstream etCO<sub>2</sub> technology to provide the reliable etCO<sub>2</sub> readings you need to facilitate diagnosis, streamline workflow, and enhance patient care.

<sup>1</sup> Burton JH, Harrah JD, German CA, Dillon DC. Does end-tidal carbon dioxide monitoring detect respiratory events prior to current sedation monitoring practices? *Acad Emerg Med.* 2006 May;13(5):500-4. Epub 2006 Mar 28.

<sup>2</sup> Philips IntelliVue patient monitors as of Rev J.

#### Key advantages

- Choose from a wide range of sampling lines for pre-hospital care, critical care, the OR, sedation, and general care
- All Philips Microstream FilterLine products are designed to provide etCO<sub>2</sub> readings you can trust
- Reliably assess a patient's ventilatory status with Philips IntelliVue patient monitors<sup>2</sup> with built-in Microstream IPI algorithm

# PHILIPS

“During moderate or deep sedation the adequacy of ventilation shall be evaluated by continual observation of qualitative clinical signs and monitoring for the presence of exhaled carbon dioxide unless precluded or invalidated by the nature of the patient, procedure, or equipment.”

American Society of Anesthesiologists (ASA)

#### A comprehensive approach to respiratory monitoring

The American Society of Anesthesiologists (ASA) and American Heart Association (AHA) have both documented the need to continually monitor the presence of exhaled carbon dioxide for patients under deep or moderate sedation. Now Philips makes it easy to comply with ASA and AHA recommendations.

Philips Microstream etCO<sub>2</sub> FilterLines are designed to provide fast, accurate etCO<sub>2</sub> readings of the patient's breath, so you can identify respiratory distress early, monitor changes continuously, and intervene quickly to enhance patient care.

#### The high cost of respiratory failure

Postoperative respiratory failure is the third most common patient safety incidence in hospitals every year, affecting some 600,000 patients and costing \$1.5 billion. Respiratory failure numbers continue to rise, now occurring in 17.2 of every 1,000 patients.

Health Grades Report, 2011

“Continuous quantitative waveform capnography is now recommended for intubated patients throughout the peri-arrest period.”

American Heart Association (AHA)

#### A single system for multiple care settings

Philips offers a wide range of Microstream FilterLine sampling lines for monitoring etCO<sub>2</sub> in both intubated and non-intubated patients in virtually every area of care. As a result, you can standardize on a single brand of sampling lines to simplify purchasing and help lower costs.

#### Focused on what matters most

At Philips, we're committed to providing you with a comprehensive etCO<sub>2</sub> monitoring solution including hardware, software, consumable supplies, and clinical training. So you have the confidence and freedom to focus on what matters most: your patients.

#### For non-intubated patients



**Smart CapnoLine O<sub>2</sub>**

Adult, oral/nasal  
989803160281

**Smart CapnoLine Guard O<sub>2</sub>**

Adult, oral/nasal  
989803178041



**Smart CapnoLine O<sub>2</sub>**

Pediatric, oral/nasal  
M2520A

**Smart CapnoLine H O<sub>2</sub>**

Adult, oral/nasal  
989803177951

#### For intubated patients



**FilterLine**

Adult/pediatric  
M1920A

**FilterLine H set**

Adult/pediatric  
M1921A

## Microstream CO<sub>2</sub> FilterLine products at a glance

#### For non-intubated patients:

Designed to collect accurate etCO<sub>2</sub> samples from your patient's nose or mouth. The waveform is not affected by breathing patterns.

- Smart CapnoLine: for use in short duration monitoring like procedural sedation or emergency care. Available with O<sub>2</sub>.
- Smart CapnoLine H O<sub>2</sub>: for use in long duration monitoring like the general floor or medical/surgical unit, with CPAP and BiPAP devices.
- Smart CapnoLine Guard: for use in upper endoscopy procedures.

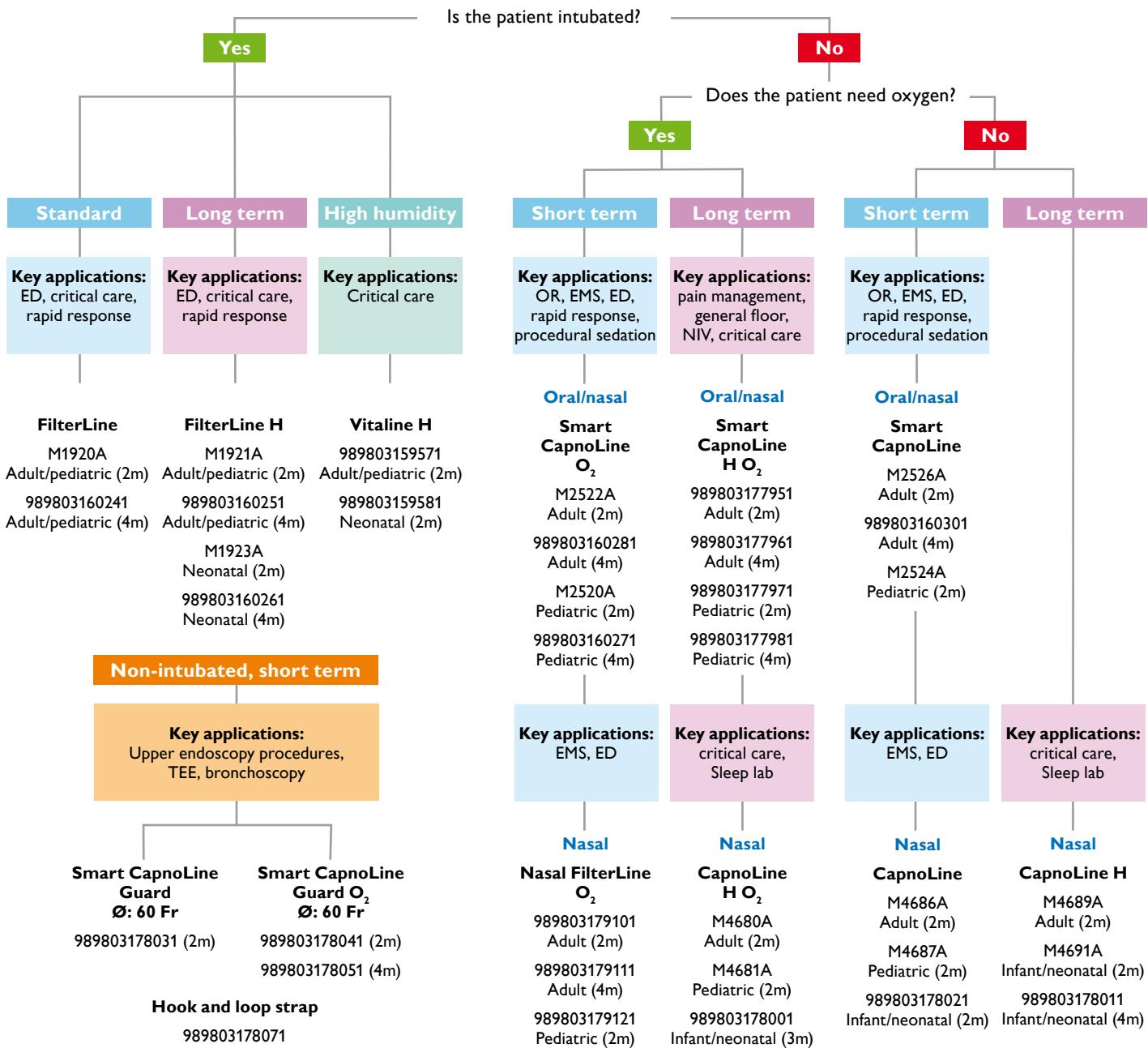
#### For intubated patients:

These Microstream FilterLine sets combine an etCO<sub>2</sub> sample line and an airway adapter in a one-piece design to simplify monitoring.

- Easy to use with neonate and adult patients.
- Patented multi-port sampling airway adapter reduces clogging.
- Special neonate/infant airway adapter with <0.5cc dead space.
- VitaLine™ H sets for high-humidity environments.
- Long versions (4m) offer flexibility.

<sup>3</sup> Lightdale JR, Goldmann DA, Feldman HA, Newburg AR, DiNardo JA, Fox VL. Microstream capnography improves patient monitoring during moderate sedation: a randomized, controlled trial. Pediatrics. 2006 Jun;117(6):e1170-8. Epub 2006 May 15.

# Selection guide



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