

capnography products



VIAMED

High performance capnography solutions for a wide range of applications

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VIAMED

VM-2500 CO₂ / SpO₂ Monitor



see page 4...

VM-2500-MG Multigas / SpO₂ Monitor



see page 8...

General Accessories



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Capnograph Sampling Line Solutions



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VersaStream CO₂ Sampling Lines

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Respironics Philips see page 16...
Luer Lock Male see page 18...
Oridion see page 20...

Flow Indicator & EtCO₂ Detectors



see page 22...

VM-2500 CO₂ / SpO₂ Monitor

High performance capnography with either mainstream or sidestream measurement

- Robust and ergonomic design
- Fast warm-up time
- Rapid response time
- Extremely accurate and reliable measurement
- CO₂ and SpO₂ combined
- Displays EtCO₂, FiCO₂, SpO₂, respiration and pulse rate, capnogram and plethysmogram
- Maintenance and calibration-free technology
- Clear and bright, colour display offers superior clarity
- For intubated and non-intubated patients



**VM-2500-S
Sidestream Unit**



**VM-2500-M
Mainstream Unit**

The ultra-compact, ergonomic design of the VM-2500-M and VM-2500-S combine outstanding performance and reliability in mainstream or sidestream CO₂ and SpO₂ monitoring.

The VM-2500-M and VM-2500-S combine innovative technologies and design with the latest materials, to create extremely accurate and reliable measurement of intubated or non-intubated patients.

The mainstream unit utilises the advanced IRMA™ CO₂ Analyser; to precisely determine gas concentration in the mixture.

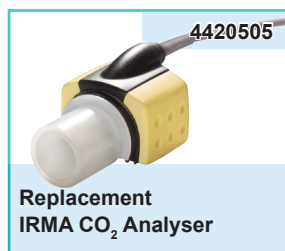
The sidestream unit utilises the advanced ISA™ CO₂ Analyser; with a range of sampling solutions to eliminate problems caused by water secretions affecting the reading.

These units incorporate a clear and bright colour display technology, offering unrivalled clarity, in even the most difficult of lighting conditions.

The VM-2500-M and VM-2500-S can be used in a variety of applications, from use in emergency rescue situations, during surgery, intensive care, resuscitation and patient transportation.

VM-2500-M

Specific Accessories



VM-2500-S

Specific Accessories

The VM-2500-S offers VersaStream sampling solution; a complete one-piece single patient use solution - see page 11 for further information on the VersaStream range.



4000 Series SpO₂ Sensors

Reusable and disposable
pulse oximetry sensors and cables

- Manufactured using the latest technology and materials
- Quality and robust designs
- Reliable and accurate

The 4000 Series includes:

- Finger clip sensors
- 3rd generation soft silicone finger sensors
- Wrap sensors
- Ear sensors
- Disposable sensors
- Extension and adapter cables

Compatible for use with most original equipment
manufacturers' pulse oximeters and patient monitors such
as Nellcor, GE, HP/Philips...



Finger Clip Sensor



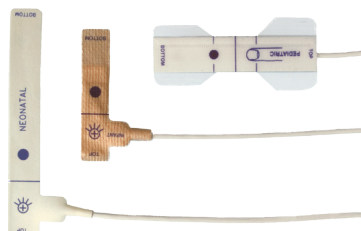
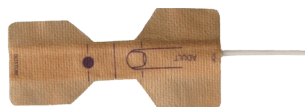
Soft Silicone Sensor



Wrap Sensor



Ear Sensor



Disposable Sensors

General Accessories

for use with VM-2500 series

4420611



Silicone Protective Cover for VM-2500 Series

4420615



Protective Rubber Boot/Stand

4420620



Carrying Case

4420621



Carrying Case with clear viewing panel

4420628



Carrying Case with A&E logo

4420590



Battery Li-Poly

4420598



Power Supply



Power Supply - UK adapter, EU adapter, AUS adapter and US adapter**

4420601



Universal Mounting Kit* Rev. 2

0121200



Universal Mounting Clamp

0121180



'V' Mount Wall Plate

0121181



'V' Mount Pole Clamp Small: 14 - 25mm clamping width

0121182



'V' Mount Pole Clamp Large: 16 - 40mm clamping width

0121184



'V' Mount Rail Clamp Attaches to most types of medirail 30mm (H) x 10mm (D)

0121197



'V' Mount Pole Clamp Horizontal

0021013



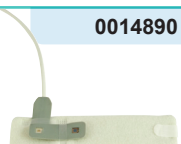
Posey Sensor Wrap Box of 12 - 6554 Also available in cases

0021018



Posey Sensor Wrap Paediatric - 6554P Box of 12 Also available in cases

0014890



Viamed Sensor Wrap For use with Viamed Sensors, Pack of 12

4420597



USB Cable For use with VM-2500 series

9910127



Lanyard with screw thread

*The universal mounting kit is required when using any of the mounting options shown.

** Design may vary

Sampling Line Solutions



Gas Sampling Lines Type S

See page 9

Including Luer Lock connections. These sampling lines do not remove humidity, but are economical, flexible and **do not kink**. Their multi-layer construction (PE/EVA/PVC) makes them suitable for use with anaesthetic gases.



Not adversely affected by anaesthetic agents*



Does not kink

Gas Sampling Lines Type H

See page 10

Also have Luer Lock connections and additionally remove humidity. These sampling lines save costs by reducing or negating the need for regular exchange of water traps or absorbers.



Removes humidity



Not adversely affected by anaesthetic agents*



Does not kink

VersaStream Sampling Lines

VersaStream sampling lines offer a fully disposable one-piece sampling solution for short-term (≤ 24 hours) or long-term (≤ 72 hours) use. They offer greater flexibility to for the end-user.



Integrated bacterial filter



Removes humidity



Not adversely affected by anaesthetic agents*



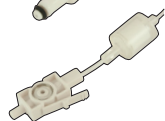
Does not kink

These sampling lines are available with a range of different connectors: Viamed (Masimo/Phase-In), Luer Lock (General Purpose), Respironics (Philips). They are also available in multiple configurations of patient type, length and versions. VersaStream sampling lines remove moisture and incorporate bacterial filters, thereby both reducing costs and minimizing risk of cross-infection.



Viamed: Masimo, PhaseIn

See page 14



Respironics, GE, Philips compatible

See page 16



Luer Lock: General Purpose, Dräger

See page 18



Oridion: Covidien, Nellcor, Medtronics compatible

See page 20

* Does not apply to full range

Gas Sampling Lines S Type

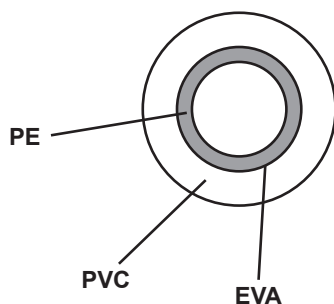
High performance and economical sampling lines that are not adversely affected by anaesthetic gases



- For use with Capnographs, as well as gas monitors and modules that use a standard Luer Lock connection; and that incorporate a water trap or absorber.
- Suitable for monitoring O₂, CO₂ and anaesthetic gases
- The multi-layer **S type** long-term sampling lines are very flexible and kink resistant
- Ideal for use in ICUs, NICUs, Operating Theatres and Emergency Services applications

Conventional sampling lines manufactured from just PVC are **not** suitable for use with anaesthetic gases and may cause incorrect readings, the **S type** sampling lines resolve this problem by being manufactured with a PE inner core. Sampling lines manufactured with just PE are not flexible and are prone to kinking.

Multi-layer Tube



PE = Polyethylene

Inner tube is not affected by anaesthetic gases

PVC = Polyvinyl Chloride

Outer tube enables the line to be flexible and prevents kinking

EVA = Ethylene-vinyl acetate

Bonds the inner PE tube to the outer PVC tube



Part Number: 4421504

Length: 2.5m, Box of 10

Part Number: 4421505

Length: 3.0m, Box of 10

Part Number: 4421507

Length: 4.0m, Box of 10

Gas Sampling Lines H Type

High performance sampling lines that remove humidity and are not adversely affected by anaesthetic gases

- For use with Capnographs, as well as gas monitors and modules that use a standard Luer Lock connection; and that incorporate a water trap or absorber.
- The long-term **H Type** sampling lines (< 72 hours) save costs by reducing or negating the need for regular exchange of water traps or absorbers. They are also a cost-effective alternative to Nafion® tubes.
- The advanced gas-selective tubing material permits active removal of moisture and water - even in cases of low temperature and high humidity. All other gases remain unchanged within the tubing, allowing precise measurements.
- Can be used with both low-flow and high-flow systems (30 - 250 ml/min)
- Perfectly suited for monitoring O₂, CO₂ and anaesthetic gases.
- Ideal for use in ICUs, NICUs, Operating Theatres and Emergency Services applications.

H Type sampling lines are available with or without an integral airway adapter. The 'line only' version incorporates a raised (yellow) sampling port and is designed for use with standard airway adapters. The raised sampling port on both versions prevents moisture from flowing down the line, as well as facilitating mid-stream gas sampling.



Close-up of LLM line sampling port



Sampling Line with integral airway adapter



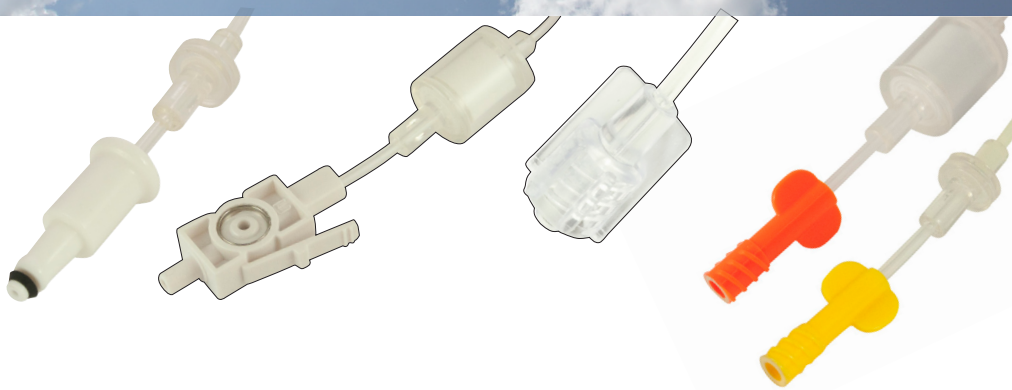
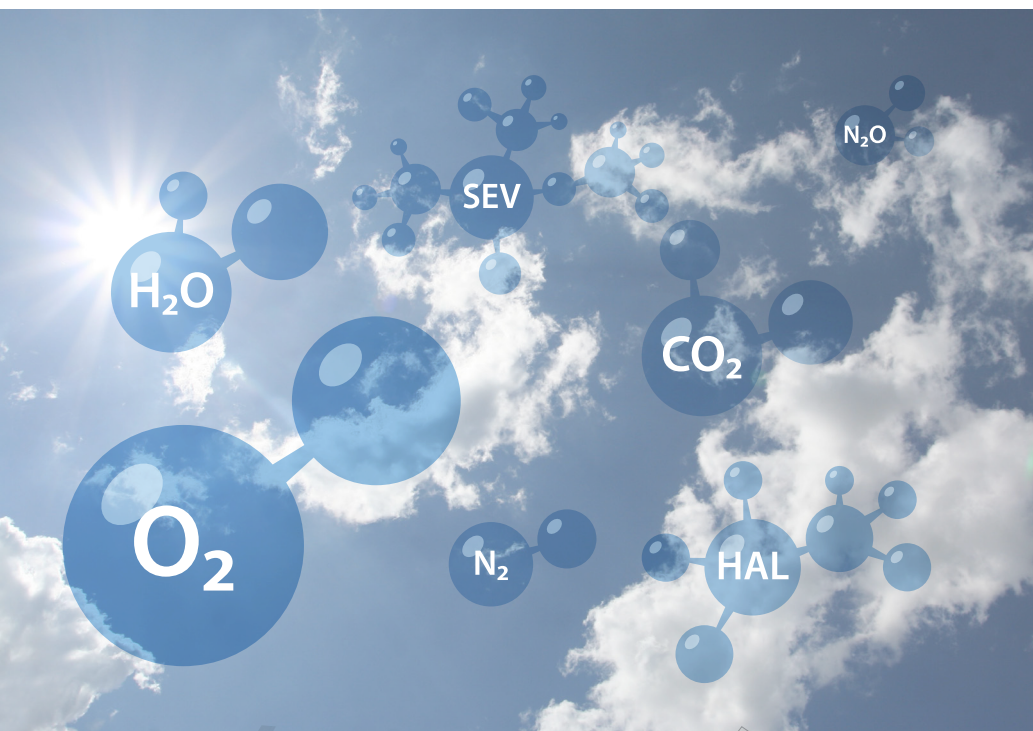
Part Number: 4421513
LLM Line only, 2.0m
Box of 10

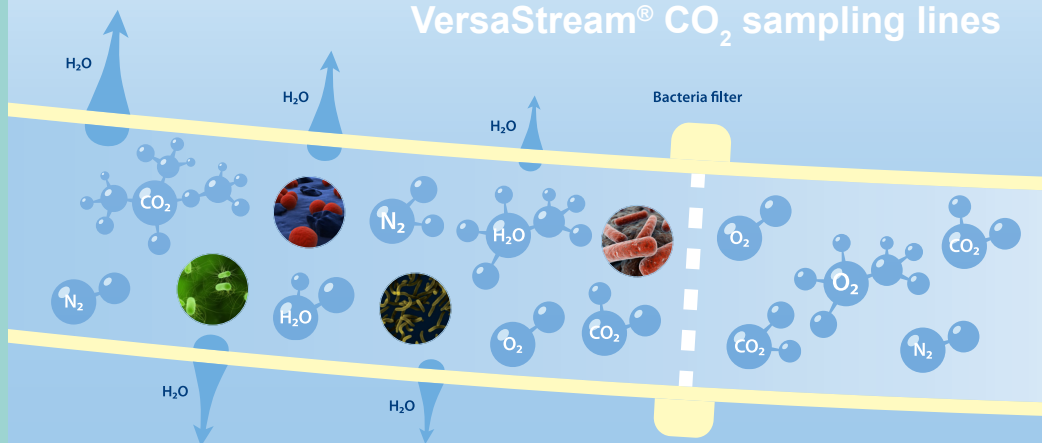


Part Number: 4421523
Airway Adapter (Adult), 2.0m
Box of 10

Part Number: 4421533
Airway Adapter (Infant), 2.0m
Box of 10

VersaStream®

CO₂ Sampling LinesInnovative Solutions for Sidestream CO₂ Monitoring

VersaStream® CO₂ sampling lines

The VersaStream® CO₂ sampling lines combine reliability, flexibility and cost efficiencies

Why VersaStream® CO₂ sampling lines?

- Cost-effective alternative to Nafion® tubes
- The gas-selective non-porous material facilitates fast and complete removal of condensation from the sampling line
- The integrated bacterial filter prevents contamination
- Reliable measured gas values, due to negligible dead space volume of the filter - even in cases of high respiration rates
- Integrated bacteria filter and water removal reduces the number of patient circuit parts and speeds up patient monitoring preparation time

Innovative material technologies

Latest material technologies permit active and complete removal of moisture and water – even in cases of low temperatures and high humidity.

No need to use expensive Nafion® tubes, which are not resistant to bending.

VersaStream® CO₂ sampling lines are very flexible and are suitable for short-term and long-term applications.

Available CO₂ sampling lines



Nasal Sampling Line



Nasal Cannula



Nasal/Oral Cannula



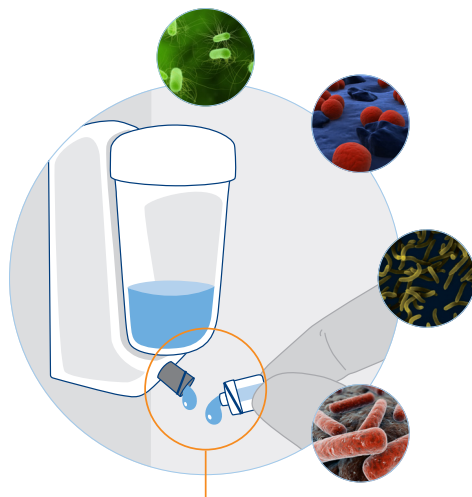
Airway Adapter Sampling Line

Reduction of contamination risks

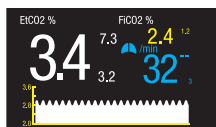
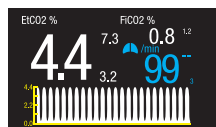
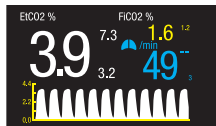
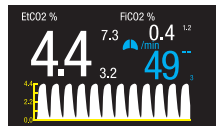
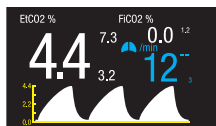
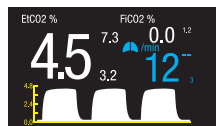
The integrated bacteria filter of the VersaStream® gas sampling lines prevent contamination of gas-conducting components in and at the patient monitor. Transmission of germs, e.g. by contamination at the sample gas connection port of the monitor or at the water separation unit is prevented.

Water traps or water absorbers that are used in many gas monitoring applications in anaesthesia or intensive care – require either no replacement; or reduced need for replacement and emptying when using VersaStream® gas sampling lines.

Alarms triggered at the gas monitor by full water traps are significantly reduced. The associated patient monitoring labour and consumables costs are reduced considerably.



Contamination risk where standard lines are used with systems that employ water traps. VersaStream® lines resolve this potential infection control issue.



VersaStream®

LDS filter – Low-dead-space bacteria filter

Reliable measured values – even in cases of high breathing or ventilation frequency

The dead space volume of the filter unit has been reduced to only a few micro litres, thus facilitating precise measurement of CO₂ concentrations in the breathing gas – even at high respiration rates.

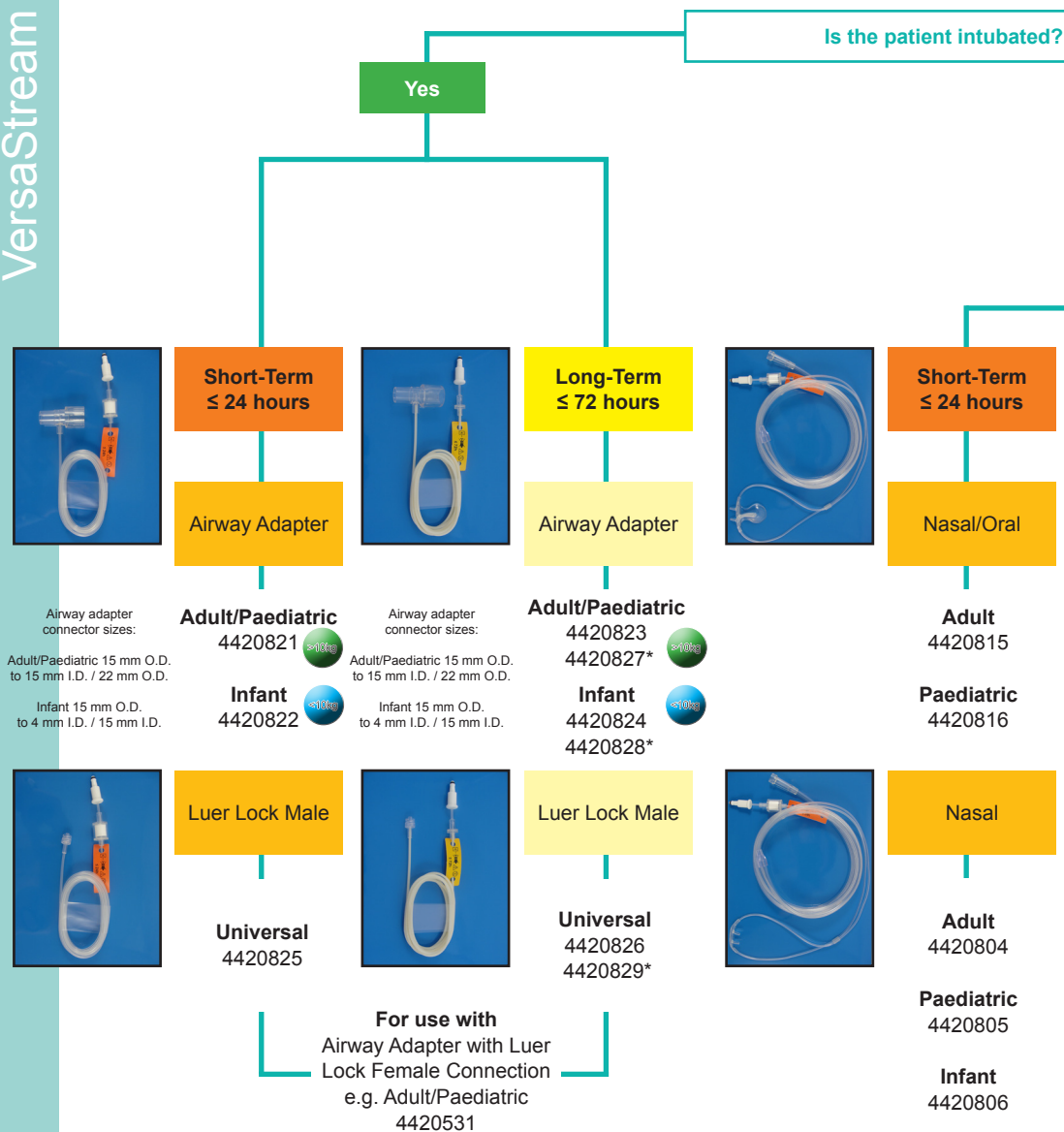


Diverse areas of application

VersaStream® CO₂ sampling lines are suitable for use in areas, such as:

- Short and long term patient monitoring applications
- Monitoring of intubated and non-intubated patients
- Emergency medicine
- Patient transport
- Anaesthesia
- Intensive-care medicine – for adults and children
- Sedation
- Pain therapy, pain therapy management
- Homecare
- Sleep clinics and CPAP-ventilation

viamed versastream selection guide



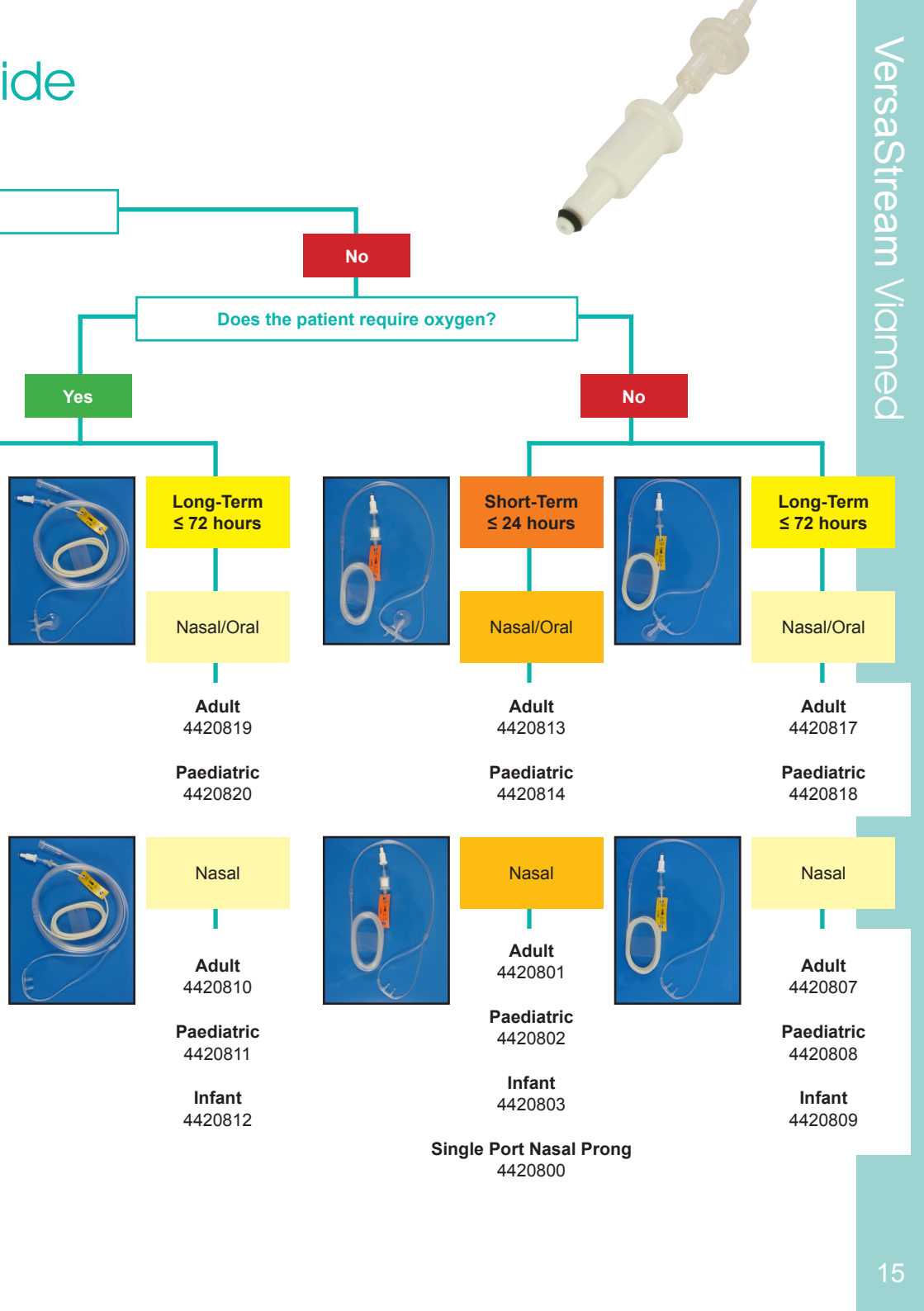
 ≥10kg

For use with patients that exceed 10 kg

 <10kg

For use with patients that are less than 10 kg

* can be used with anaesthetic agents



Single Port Nasal Prong
4420800

respiration compatible versastream



For use with patients
that exceed 10 kg



For use with patients
that are less than 10 kg

Is the patient intubated?

Yes



**Short-Term
≤ 24 hours**

Airway Adapter

Airway adapter
connector sizes:

Adult/Paediatric
4420971

Adult/Paediatric 15 mm O.D.
to 15 mm I.D. / 22 mm O.D.

Infant
4420972

Infant 15 mm O.D.
to 4 mm I.D. / 15 mm I.D.



**Long-Term
≤ 72 hours**

Airway Adapter

Airway adapter
connector sizes:

Adult/Paediatric
4420973

Adult/Paediatric 15 mm O.D.
to 15 mm I.D. / 22 mm O.D.

Infant
4420974

Infant 15 mm O.D.
to 4 mm I.D. / 15 mm I.D.



**Short-Term
≤ 24 hours**

Nasal/Oral

Adult
4420965

Paediatric
4420966



Luer Lock Male

Universal
4420975



Luer Lock Male

Universal
4420976



Nasal

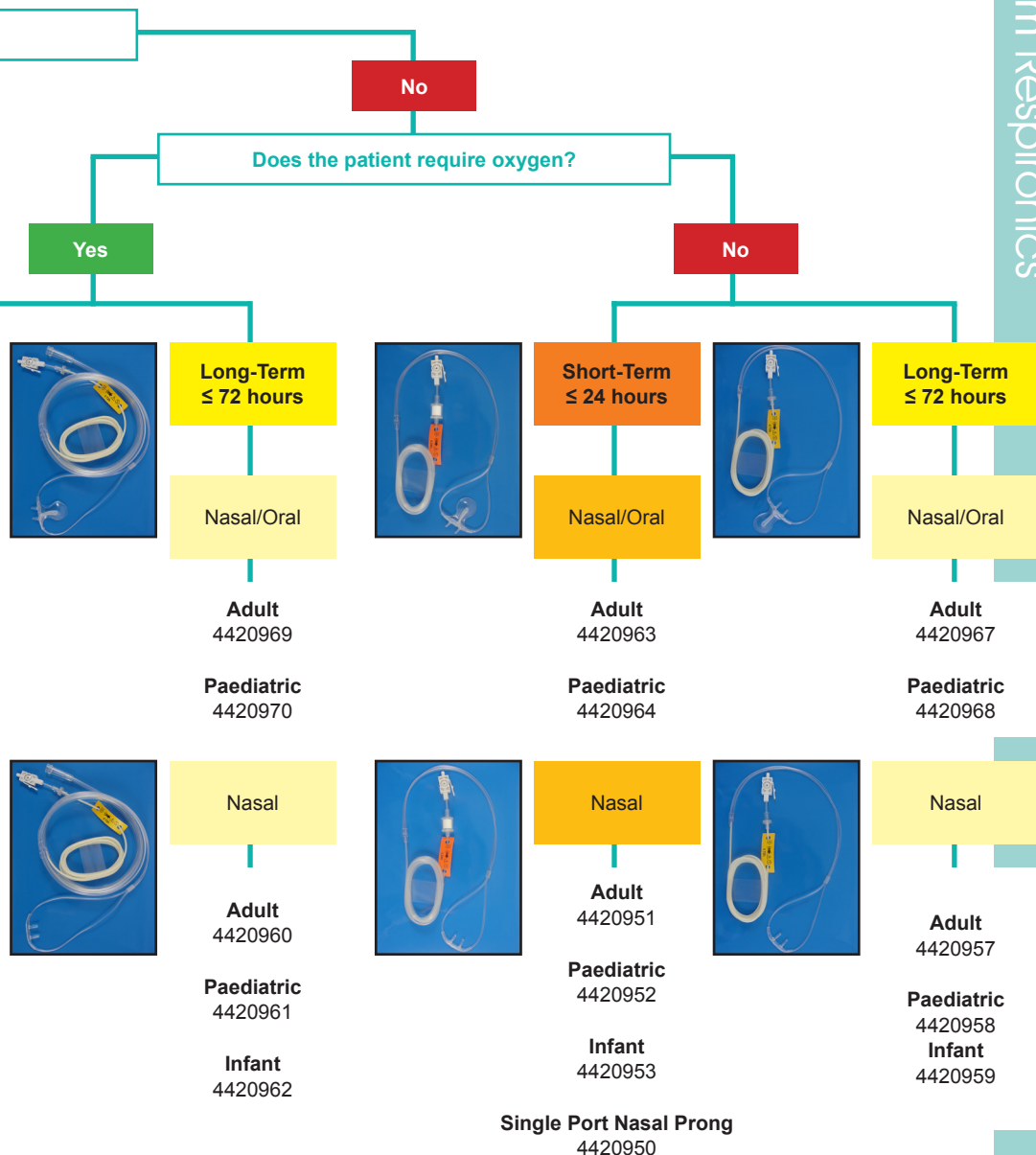
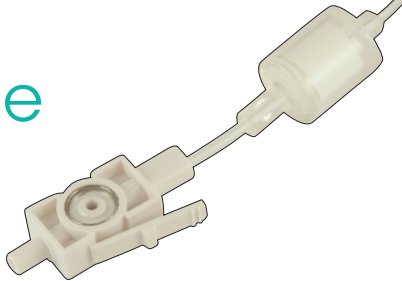
Adult
4420954

Paediatric
4420955

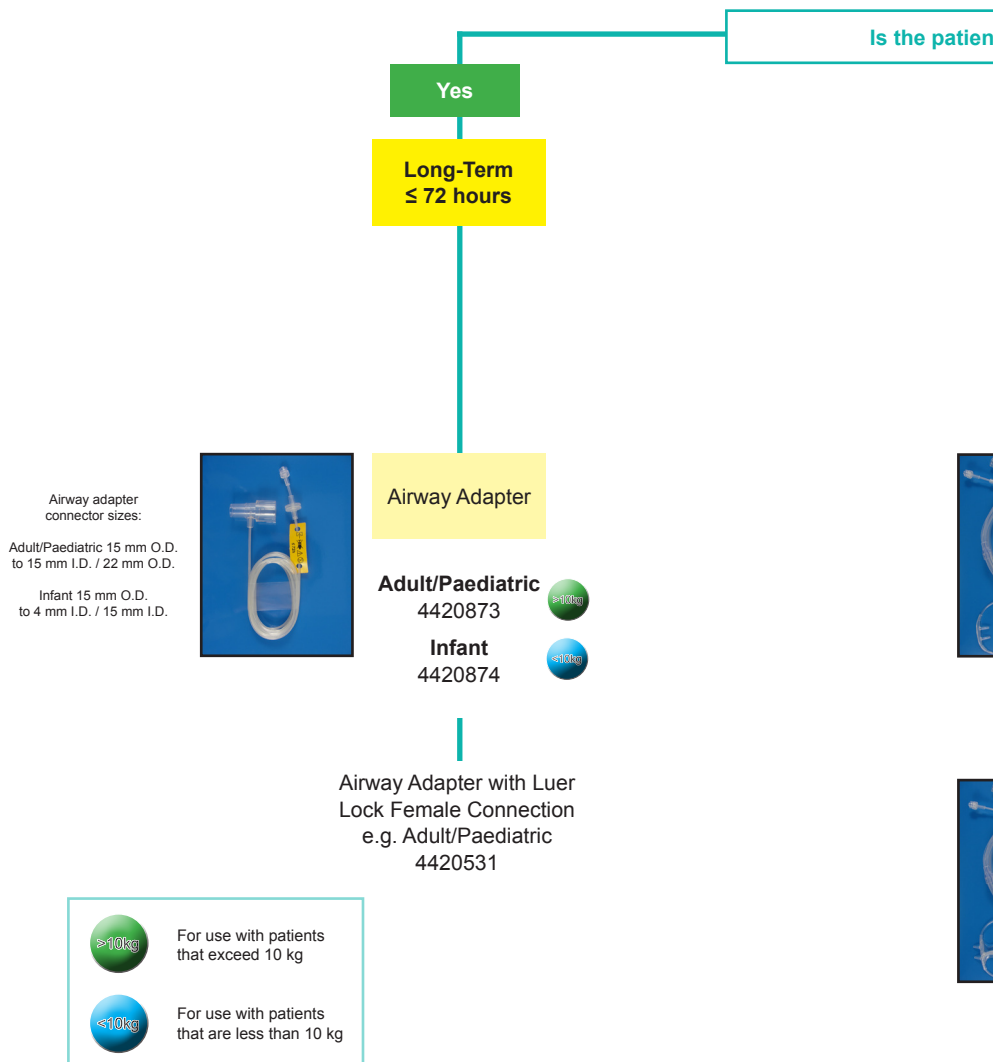
Infant
4420956

For use with
Airway Adapter with Luer
Lock Female Connection
e.g. Adult/Paediatric
4420531

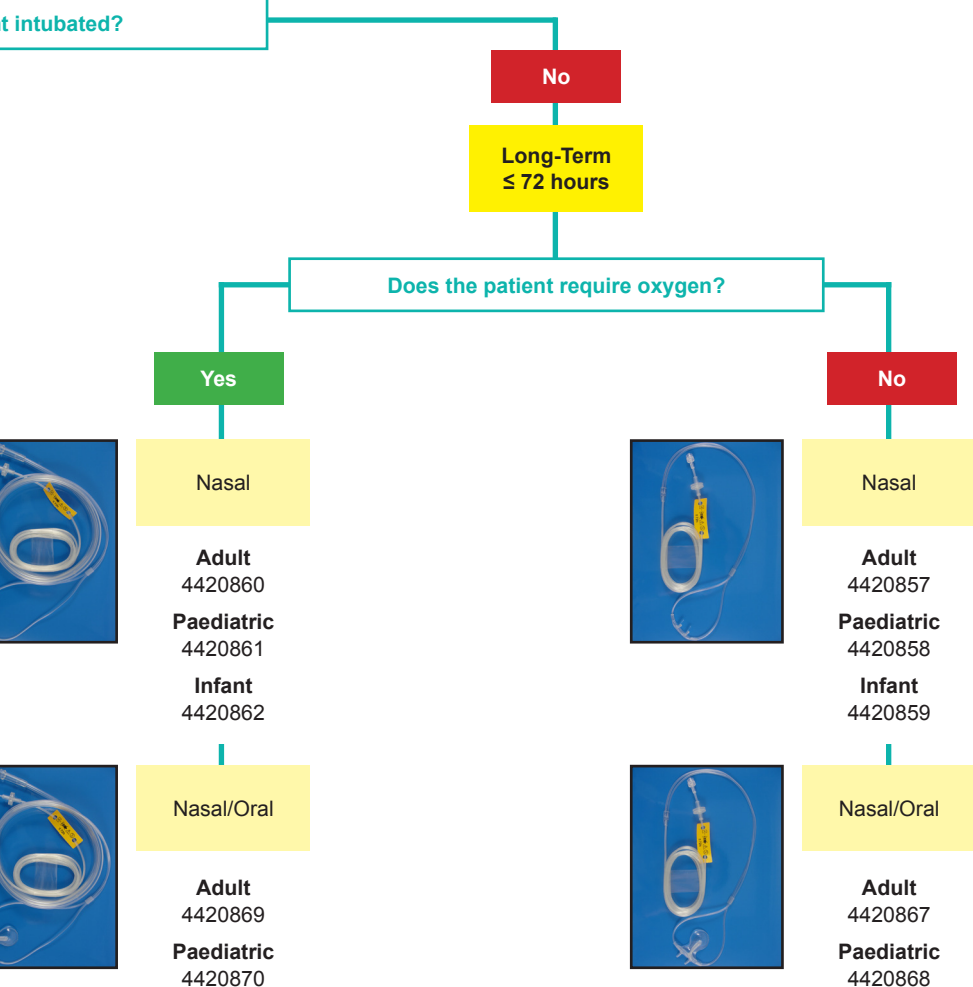
m selection guide



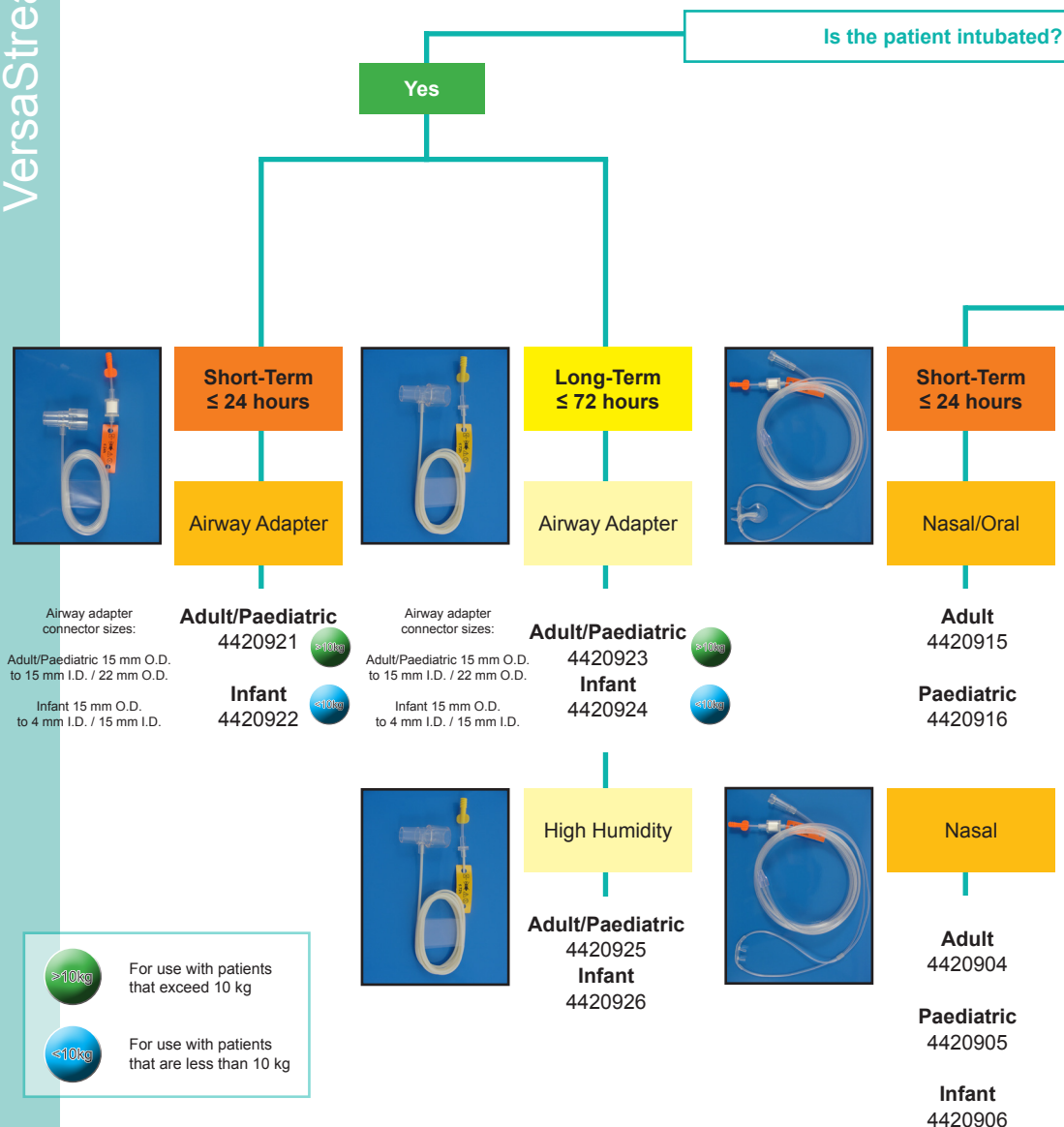
luer lock general purpose versastr



Team selection guide



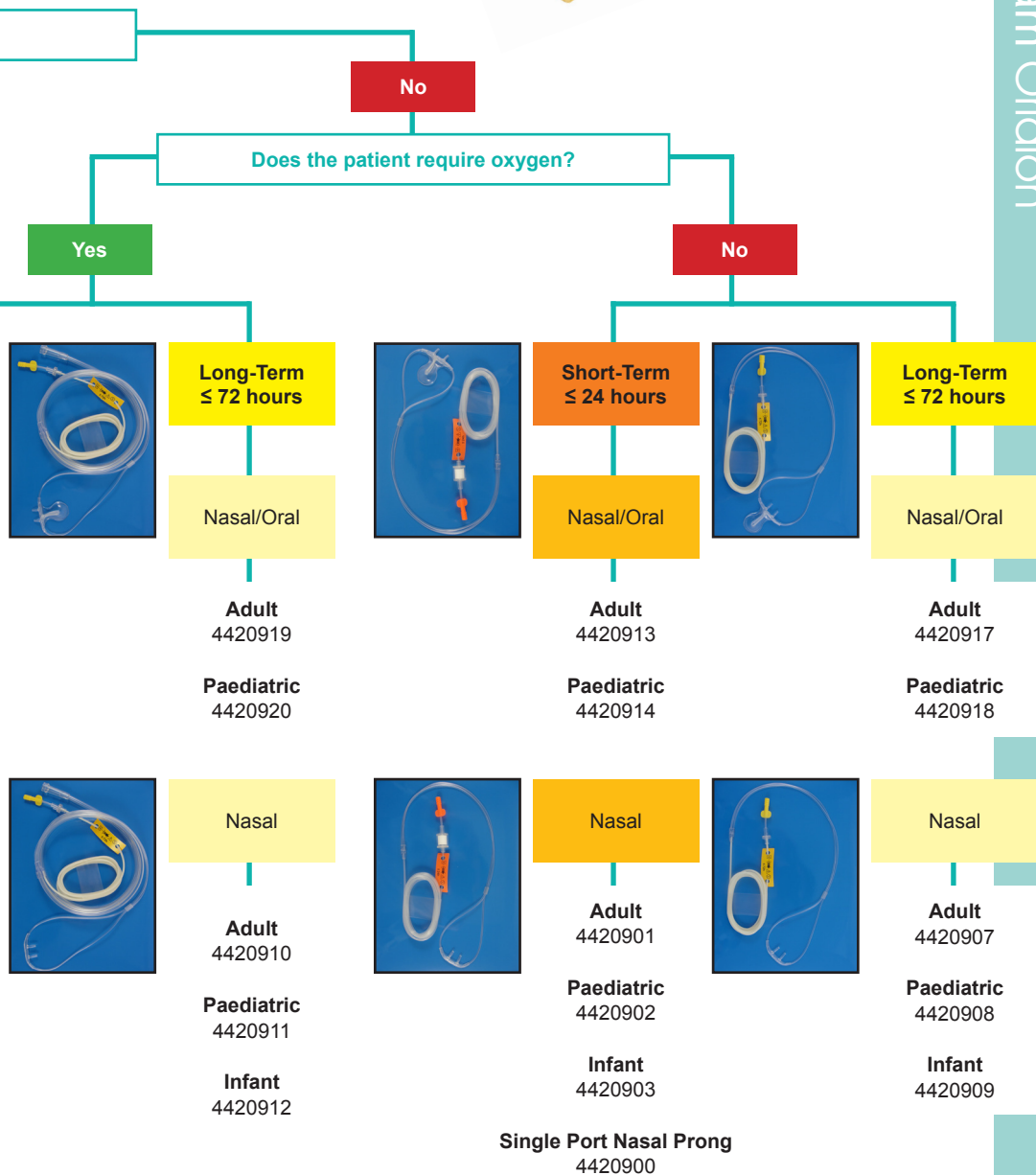
oridion compatible versastream s



For use with patients that exceed 10 kg



For use with patients that are less than 10 kg

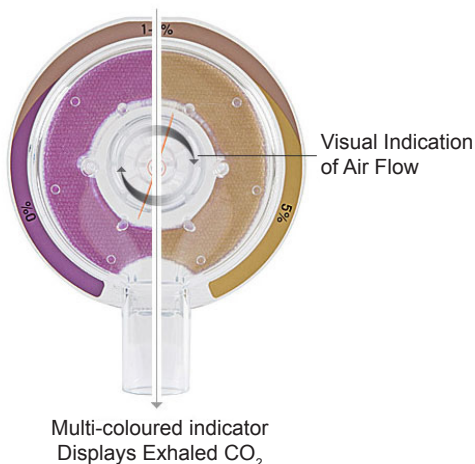


Single Port Nasal Prong
4420900

FLOCAP®



Flow Indicator & EtCO₂ Detector



- Long shelf life, currently tested to 36 months
- High definition colour changing material displays CO₂ %
- Patented flow indicator spinner
- Highly visible
- A quick way to determine end expiratory breath in addition to waveform CO₂ monitors

The FLOCAP is a single-use EtCO₂ & flow indication device designed for visualisation of a patient's exhaled CO₂ and expiratory flow. The EtCO₂ indication assists the user in verifying proper ET tube placement. The flow indicator helps the caregiver identify end of exhalation which may help prevent breath-stacking or overdistention and its associated health issues during resuscitation.

MaxCap

Colorimetric CO₂ indicator



Multi-coloured indicator
Shows Exhaled CO₂



The MaxCap is a single-use, colorimetric ETCO₂ detector that is used to determine proper ET tube placement during intubation. The MaxCap attaches between the endotracheal tube and resuscitation bag and will change colour (from purple to yellow) with the presence of CO₂, indicating proper tube placement.

Available in 3 sizes: regular, paediatric (awaiting release) and neonatal (awaiting release).



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Part Number: ???????
Date: 11/18