OUR NEONATAL & PAEDIATRIC
ANAESTHESIA & LARYNGOSCOPE RANGE

because you shouldn’t have to make things fit
All our reusable laryngoscopes are covered with our unrivalled Lifetime Guarantee against faulty material or manufacture. Should any part of the system fail whilst being used for the intended purpose, we will simply repair or replace it free of charge. This guarantee applies throughout the working life of the instrument. Consumable parts such as bulbs and fibre optic cores, are not covered by the lifetime guarantee as they may deteriorate over a period of time.

When UK Anaesthetist Dr Frank Leonard Robertshaw (1918-1991), developed his laryngoscope, like E.H. Seward before and R.A. Miller before that, he had in mind the needs of both the infant and paediatric patient.

The Macintosh laryngoscope was invented with the adult patient in mind and although paediatric and neonatal sizes were later developed and manufactured, they were simply scaled down versions of the adult size - unlike the Robertshaw, Airway, Oxford, Magill blades and others, such as the Cardiff blade all of which were specifically designed with the paediatric or neonatal patient in mind.

We have extended the range of products from laryngoscopy and intubation to include our ranges of stethoscopes, portable suction devices, resuscitation bags, face masks and forceps. We have also included a section on the

Claria Paediatric Optical Stylet which we feel will be very useful to those interested in difficult airway management.

This brochure is not necessarily a complete solution to the needs of all neonatal and paediatric, but whether you are a clinician, nurse or other clinical team member we hope, nevertheless, that it will help you in making the right choice of Timesco product for this important patient group.

Graham Dodds
Anaesthetic Business Manager,
Timesco of London Ltd.

References
R.M. Jones et al The Cardiff paediatric laryngoscope blade: a comparison with the Miller size 1 and Macintosh size 2 laryngoscope blades. Anaesthesia 55: pp1016-1019, 2004
References

Twigg S.J.; McCormick B.; Cook T.M Randomized evaluation of the performance of single use laryngoscopes in simulated easy and difficult intubation. BJA 90:1 pp 8-13 2003

Goodwin N.; Wilkes A.R.; Hall J.E. Flexibility and light emission of disposable paediatric Miller 1 laryngoscope blades Anaesthesia 61:8 pp 792-799 2006

Our Europa range of laryngoscope blades were developed and designed over 3 years ago as a real alternative to reusable laryngoscope blades, but without compromising on safety or performance.

Clinical evaluations of our Europa range, published in both Anaesthesia and the BJA, have been very positive.

- Maximum rigidity from the metal stainless steel spatula
- 3 ball bearings for secure reuse on the same patient or for routine checks on crash trolleys
- Bright focused light, provided by a fixed bulb which will not work loose
- Latex free
- Permanent single patient use markings for control of cross infection
- Fully compatible with ISO 7376 standard light handles
- Profiles and blade shapes are identical to a reusable blade

Also available:
DS.2940.235.05 Europa Robertshaw Neonate No.0 100x17 mm

DS.2940.150.10 Europa Macintosh Infant No.1 92x14 mm
DS.2940.150.10 Europa Macintosh Child No.2 108x17 mm
DS.2940.185.10 Europa Miller Infant No.1 105x9.5 mm
DS.2940.185.15 Europa Miller Child No.2 118x13 mm
DS.2940.185.05 Europa Miller Neonate No.0 73x7 mm
DS.2940.235.10 Europa Robertshaw Infant No.1 112x14.5 mm
Our Callisto range of laryngoscope blades were developed and designed over 3 years ago as a real alternative to reusable laryngoscope blades, but without compromising on safety or performance.

Clinical evaluations of our Callisto range, published in Anaesthesia have been very positive.

• Maximum rigidity from the metal spatula
• 3 ball bearings for secure reuse on the same patient or for routine checks on crash trolleys
• Wide 4mm fibre light guide for maximum illumination
• Latex free
• Permanent single patient use markings for control of cross infection

• Fully compatible with ISO 7376 fibre-optic handles
• Profiles and blade shapes are identical to a reusable blade

New ‘no touch’ design – prevents blade and handle cross infection.

References

Twigg S.J.; McCormick B.; Cook T.M Randomized evaluation of the performance of single use laryngoscopes in simulated easy and difficult intubation. BJA 90:1 pp 8-13 2003
Our Orion blade brings standard light systems into the 21st century, its major benefits include ISO 7376 fitting. The Macintosh blade, developed by R. Macintosh in 1941, is the most popular blade in use for intubation of adult patients under normal circumstances. The curvature of the blade allows the tip to fall naturally into position in the vallecula of the patient and the wide flange assists in holding the tongue safely aside during intubation.

The Miller pattern blade is the most popular of the straight blade styles. This is especially true for paediatric use where the extended curve at the tip of the blade facilitates easy anterior lifting of the epiglottis which is comparatively larger and harder to control than in an adult patient. The straight design also allows a more direct view of the larynx, which can be of great benefit in cases of difficult intubation.
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The fibre-optic core in Optima CLX “clicks” in and out for easier disassembly and assembly, thus reducing the likelihood of protein deposits remaining after sterilisation. The core is an average of 4mm in diameter and increases light output by over 25%.

2970.150.15 Optima CLX Macintosh Child No.2 100x17mm

2970.150.10 Optima CLX Macintosh Infant No.1 120x14mm

2970.150.05 Optima CLX Neonate No.0 80x14mm

2970.185.15 Optima CLX Miller Child No.2 153x11mm

2970.185.10 Optima CLX Miller Infant No.1 102x8.5mm

2970.185.05 Optima CLX Miller Neonate No.0 75x8.5mm

2970.185.03 Optima CLX Miller Premature No.00 68x8.5mm
The Robertshaw paediatric blade features a straight tongue with a gently curved tip, designed to lift the epiglottis indirectly. It is also beneficial for nasotracheal intubation as it facilitates the use of Magill forceps with a minimum loss of view.

The Wisconsin blade features a more open rear profile allowing even greater visualisation than the Miller blade. The flange of the Wisconsin widens slightly towards the distal end to give better control of the epiglottis.

The Seward blade is similar in application and design to the Robertshaw blade but features a small Z-shaped flange.

The Oxford blade is suitable for premature infants and children up to the age of 4. The design prevents the lips from obscuring vision and the broad, flat flange is a major benefit in children with an extreme degree of cleft palate.

The Wisconsin blade features a more open rear profile allowing even greater visualisation than the Miller blade. The flange of the Wisconsin widens slightly towards the distal end to give better control of the epiglottis.
The tilting tip style Macintosh blade was designed for performing difficult intubations. Our Eclipse version of the blade, incorporating the Viewmax spatula profile and fibre optic light source, enables the user to see clearly and position the tip of the blade quickly and easily into the vallecula, using minimum force. The leaned tilting tip can then be used to raise the epiglottis and offer comfortable access to the trachea for intubation.

The Viewmax blade features a concave blade spatula, which actually allows an improved view of the larynx and surrounding structures. This enables the user to visualize the vocal cords without having to apply nearly as much lifting force to the handle.

The Optima Magill blade is set to be angled 10 degrees towards the handle and features an open rear profile for greater visibility. The angling of the blade allows the user to exert force to open the airway in a more natural, horizontal direction when performing intubation. Due to the straight profile, improved visibility and flattened tip, these blades are especially useful for paediatric cases.
SINGLE USE handles

Europa S and Callisto S single use laryngoscope handle systems have undergone rigorous tests in order to far exceed existing standards. The new lightweight plastic design is a third of the weight of comparable metal disposable handles.

ORION handles

Orion laryngoscope handles are made to the ISO 7376 fitting and accommodate most standard, bulb-on-blade laryngoscopes. All handles powered by standard alkaline batteries are identified by a black band. All Orion fibre handles are covered by our lifetime warranty.

OPTIMA XL handles

Optima XL fibre optic laryngoscope handles are made to ISO 7376 or ‘green fitting’ to accommodate any Optima, Viewmax or Eclipse blade and are identified by a green band. All handles are powered by standard alkaline batteries and feature a new powerful Xenon bulb for maximum illumination.
Just as the management of the difficult airway is a challenge in the adult patient, it is no less so in the paediatric patient. The Clarus Shikani Paediatric Optical Stylet has been designed to fit the needs of paediatric and neonatal patients with pre-existing difficult airways; these include such conditions as Pierre Robin, Treacher Collins and Goldenhar syndromes.

The Stylet consists of a malleable stainless steel fibre-optic stem that comes in a pre-formed ‘J’ shape, an eyepiece that can be connected to any proximal camera system or used stand-alone and a simple adaptor enabling a laryngoscope handle to be used as the light source. The stylet is 27cm long and can accommodate a range of ETT from size 3.0 up to size 5.0 ID.

References
Pfitzner L; Cooper M.G. The Shikani Seeing Stylet for difficult intubation in children - initial experience anaesthesia & intensive care 20 pp 452-456, 2002
INTUBATION forceps

Forces can be used to direct a tracheal tube into the larynx or a gastric tube or other device into the oesophagus. The Magill pattern is designed to enable the user to use the laryngoscope with their left hand while holding the forceps in their right.

The angle in the forceps between the handles and the jaws enable them to be used with the handles out of the direct line of sight. All Timesco reusable Magill intubation forceps are fully autoclavable and guaranteed for life.

RES-Q-VAC aspirator

The Res-Q-Vac is a hand-operated advanced suction system which provides a full range of suction options for every medical requirement. It consists of a high-quality non-electric suction pump and disposable canisters with appropriate catheters. The system is totally portable and has a very long shelf life providing suction anywhere and anytime it is needed.

- Wall suction level performance in a portable unit >600 mmHg
- Always ready to go - no set up required, no batteries to recharge or replace
- Powerful enough to suction in all situations
- Patented 0.22 equivalent micron filter ensures maximum infection control - complete range of catheters for all requirements (sterile/non-sterile)
- Convenient one-handed operation

In addition, the Res-Q-Vac is available with a patented Full Stop Protection* 0.22u HEPA style filter:

The system’s patented Full Stop Protection filter prevents all contamination (viral & bacterial), fluids or pathogens, from exiting the canister and contaminating the health professional or surrounding area.

With the Full Stop Protection filter, fluids and pathogens can get into the bottle, but only clean air gets out. The Full Stop Protection filter eliminates overflow, and eliminates any contamination from entering the pump handle or running onto the user.

The Full Stop Protection filter reduces exposure and prevents the spread of infectious disease.

04.200.10 Magill Intubation Forceps - Infant 6" S/J
Also Available:
04.200.20 Magill Intubation Forceps - Child 7.25" S/J

D.04.200.25 Magill Intubation Forceps - Child - Disposable (pack of 10)
Also Available:
D.04.200.15 Magill Intubation Forceps - Infant - Disposable (pack of 10)

TDM-RQV-120 Res-Q-Vac Aspirator with Child Canister / Small Catheter (10FG)
Also Available:
TDM-RQV-130 Res-Q-Vac Aspirator with Neonatal Canister / Small Catheter (8FG)
TDM-RQV-220 Spare Child Canister / Small Catheter (10FG)
TDM-RQV-230 Spare Neonatal Canister / Small Catheter (8FG)
The Littmann Classic II paediatric and infant stethoscopes feature stainless steel chestpieces optimally sized for paediatric and infant auscultation.

The Paediatric stethoscope features a 1-inch traditional bell combined with a patented floating diaphragm. The infant stethoscope features a 3/4-inch bell with a patented floating diaphragm.

Both stethoscopes feature:
- Solid stainless steel chestpieces
- Single-lumen tubing
- Patented Littmann Snap Tight soft-sealing eartips
- Comfortably angled anatomically correct headsets
- Patient-friendly non-chill rims and diaphragms
- Each stethoscope is supplied with a 3-year warranty

The Timesco ‘Diamond’ range of stethoscopes are made to the highest specifications with internal binaural springs and a quality chestpiece for excellent acoustics. The diaphragm and bell have plastic non-chill sleeves for improved patient comfort. All models are supplied with black tubing, soft sealing eartips and come complete in their own foam-lined box.

Available models:
- TD1-13-714: Littmann Classic II Paediatric Stethoscope 38” (97 cm) (Black)
- TD1-13-715: Littmann Classic II Paediatric Stethoscope 28” (71.25 cm) (Black)
- TD1-13-716: Littmann Classic II Infant Stethoscope 28” (71.25 cm) (Black)
- TD1-13-717: Diamond Infant Stethoscope (Black)
- TD1-13-718: Diamond Paediatric Stethoscope (Black)
- TD1-13-737: Diamond Neonatal Stethoscope (Black)
Silicone face masks are transparent to allow visual checks for bleeding and vomiting. Available in neonate, infant, paediatric, medium and large adult. Latex free and reusable.

The Timesco range of face masks come in 3 different versions: Single use standard, single use economy and silicone reusable.

The single use standard face masks are made of transparent soft vinyl. Each mask has an adjustable pressure valve to ensure minimum leakage and maximum efficacy and patient comfort. The mask hook rings are removable for hand-held procedures.

The single use economy face masks are exactly the same as those supplied with our single use resuscitators.

The silicone reusable face masks are transparent to allow for visual checking of the patient response. Each mask is latex free.

The economy face masks are exactly the same masks that are supplied with our disposable resuscitators and are available in six sizes, neonate, infant, paediatric, medium and large adult.

Our single use face masks are made from a transparent soft vinyl which makes them ideal for observing patients’ lip colour. Each mask has an adjustable air pressure valve to ensure minimum leakage and maximum patient comfort. Hook rings are removable for hand-held procedures.

The single use economy face masks are exactly the same as those supplied with our single use resuscitators.

The silicone reusable face masks are transparent to allow for visual checking of the patient response. Each mask is latex free.
Timesco single use resuscitators are supplied complete with oxygen tubing, an oxygen reservoir bag and a suitably sized anatomical soft sealing mask.

Infant and child sizes are supplied with built-in 35cm H2O pop-off valves to protect against barotrauma in the paediatric patient.

All our bags are:

- Latex-free
- Collapsible for easy storage
- Single use
- Versatile, with a 360 degree swivel

Additionally, each device is supplied in its own easy-tear bag for immediate access.