LMA™ Airway portfolio

3,000 published references. 300 million patient uses. Every 3 seconds an LMA™ airway is used somewhere in the world.
Second generation SADs come highly recommended

The NAP4 report\(^1\) made three key recommendations on the use of second generation SADs:

“The combination of improved sealing and the presence of a drain tube improves efficacy and creates functional separation of the gastrointestinal tract from the respiratory tract (like an artificial larynx). This is likely to improve safety (though this is very hard to prove) and several recent publications have suggested use of supraglottic airway devices (SADs) with effective drain tubes should become a ‘standard of care’.”

NAP4 report, 2011
Recommendations:

If tracheal intubation is not considered to be indicated but there is some (small) increased concern about regurgitation risk, a second generation supraglottic airway is a more logical choice than a first generation one.

In patients considered to be at low-risk of aspiration who have other factors that mean that use of a SAD is at the limits of normality (e.g. patient position, access to the airway, patient size) consideration should be given to use of a second generation SAD.

In view of the above recommendations, and the frequency of these circumstances, it is recommended that all hospitals have second generation SADs available for both routine use and rescue airway management.
A second generation SAD with an innovative Second Seal™

LMA Supreme™ is a second generation, gastric access device which forms an effective First Seal™ with the oropharynx (oropharyngeal seal) and an innovative Second Seal™ with the upper oesophageal sphincter (the oesophageal seal).

- Soft, elongated cuff designed to support an effective First Seal™ and Second Seal™
- Elliptical and anatomically shaped LMA Evolution Curve™ (airway tube) facilitates insertion success
- Fixation tab and integral bite block

For the latest clinical evidence on LMA Supreme™ visit [www.lmaco.com/evidence](http://www.lmaco.com/evidence)
First Seal™

LMA Supreme™ delivers measured oropharyngeal leak pressures up to 37 cm H₂O.⁵

The First Seal™ is important for:

- Ventilation performance
- Advanced uses of the device such as in patients with decreased thoracic compliance, in mild-to-moderately obese patients and in certain procedures requiring mechanical ventilation where higher seal pressures are required

Second Seal™

LMA Supreme™ enables passive drainage or active management of digestive tract contents independent of ventilation.⁴

The Second Seal™ is designed to:

- Improve safety vs a first generation device
- Secure the distal tip of the LMA Supreme™ at the upper oesophageal sphincter to maintain the patency of the drain tube
- Reduce the risk of insufflation during ventilation
- Reduce the risk of regurgitated gastric content leaking around the tip of the mask

LMA Supreme™: Product specification

<table>
<thead>
<tr>
<th>Mask size</th>
<th>Product code</th>
<th>Patient size</th>
<th>Maximum cuff volume (air)*</th>
<th>Largest size OG tube</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>175010</td>
<td>Neonates/infants up to 5 kg</td>
<td>5 ml</td>
<td>6 Fr</td>
</tr>
<tr>
<td>1.5</td>
<td>175015</td>
<td>Infants 5-10 kg</td>
<td>8 ml</td>
<td>6 Fr</td>
</tr>
<tr>
<td>2</td>
<td>175020</td>
<td>Infants 10-20 kg</td>
<td>12 ml</td>
<td>10 Fr</td>
</tr>
<tr>
<td>2.5</td>
<td>175025</td>
<td>Children 20-30 kg</td>
<td>20 ml</td>
<td>10 Fr</td>
</tr>
<tr>
<td>3</td>
<td>175030</td>
<td>Children 30-50 kg</td>
<td>30 ml</td>
<td>14 Fr</td>
</tr>
<tr>
<td>4</td>
<td>175040</td>
<td>Adults 50-70 kg</td>
<td>45 ml</td>
<td>14 Fr</td>
</tr>
<tr>
<td>5</td>
<td>175050</td>
<td>Adults 70-100 kg</td>
<td>45 ml</td>
<td>14 Fr</td>
</tr>
</tbody>
</table>

*These are maximum volumes that should never be exceeded. It is recommended that the cuff be inflated to a maximum of 60 cm H₂O intracuff pressure.

OG = orogastric

Consider using LMA Supreme™ for:

- Mild to moderately obese patients
- Abdominal procedures
- Controlled reflux
- Positive pressure ventilation (PPV)
- Unexpected difficult airways
- Plastic surgery procedures
LMA ProSeal™: proven versatility

LMA ProSeal™ includes all the benefits associated with an LMA™ airway:

- Fewer drugs
- Fewer sore throats in adults
- Reduced coughing and bucking on emergence
- Improved haemodynamic stability

LMA ProSeal™: Product specification

<table>
<thead>
<tr>
<th>Mask size</th>
<th>Product code</th>
<th>Patient size</th>
<th>Maximum cuff volume (air)*</th>
<th>Largest size OG tube/salem pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>150010</td>
<td>Neonates/infants up to 5 kg</td>
<td>4 ml</td>
<td>2.7 mm / 8 Fr</td>
</tr>
<tr>
<td>1.5</td>
<td>150015</td>
<td>Infants 5-10 kg</td>
<td>7 ml</td>
<td>3.5 mm / 10 Fr</td>
</tr>
<tr>
<td>2</td>
<td>150020</td>
<td>Infants/children 10-20 kg</td>
<td>10 ml</td>
<td>3.5 mm / 10 Fr</td>
</tr>
<tr>
<td>2.5</td>
<td>150025</td>
<td>Children 20-30 kg</td>
<td>14 ml</td>
<td>4.9 mm / 14 Fr</td>
</tr>
<tr>
<td>3</td>
<td>150030</td>
<td>Children 30-50 kg</td>
<td>20 ml</td>
<td>5.5 mm / 16 Fr</td>
</tr>
<tr>
<td>4</td>
<td>150040</td>
<td>Adults 50-70 kg</td>
<td>30 ml</td>
<td>5.5 mm / 16 Fr</td>
</tr>
<tr>
<td>5</td>
<td>150050</td>
<td>Adults 70-100 kg</td>
<td>40 ml</td>
<td>6.0 mm / 18 Fr</td>
</tr>
</tbody>
</table>

*These are maximum volumes that should never be exceeded. It is recommended that the cuff be inflated to a maximum of 60 cm H₂O intracuff pressure.

OG = orogastric
### The most versatile re-usable airway

- **Peace of mind** – Passive regurgitation can occur unexpectedly intraoperatively. LMA ProSeal™ enables the regurgitated fluid to pass up the drainage tube without leaking into the glottis.

- **Patient comfort** – LMA ProSeal™ reduces the likelihood of throat irritation and stimulation, and reduces post-operative nausea and vomiting by as much as 40% compared to an ETT.

- **Performance** – LMA ProSeal™ achieves a high seal pressure, with a median seal pressure of 32cm H₂O.

- **Aspiration** – LMA ProSeal™ has a built-in drain tube that allows expelled gastric content to bypass the pharynx. This specific feature is designed to decrease the risk of aspiration.

---

#### Post anaesthesia care unit outcome data up to 24 hours

<table>
<thead>
<tr>
<th>Condition</th>
<th>LMA ProSeal™</th>
<th>ETT</th>
<th>Significance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sore throat</td>
<td>★</td>
<td>▲</td>
<td>P&lt;0.0001 vs. LMA ProSeal™ group.</td>
</tr>
<tr>
<td>Vomiting</td>
<td>♦</td>
<td></td>
<td>P&lt;0.004 vs. LMA ProSeal™ group.</td>
</tr>
<tr>
<td>Nausea</td>
<td>♦</td>
<td>*</td>
<td>P&lt;0.0001 vs. LMA ProSeal™ group.</td>
</tr>
</tbody>
</table>

Post-operative sore throat, nausea and vomiting were measured via patient interviews in a blind fashion.

---

“*The LMA ProSeal™ currently has the broadest evidence to support its efficacy and safety profile.*”

NAP4 report, 2011

For the latest clinical evidence on LMA ProSeal™, visit [www.lmaco.com/evidence](http://www.lmaco.com/evidence)
LMA Unique™: the original single use laryngeal mask

- Seven sizes, from neonate to adult
- Not made with natural rubber latex, sterile, single use
- Aperture bars designed to prevent the blockage of the airway by the epiglottis
- Soft, flexible cuff
- Facilitates smooth emergence from anaesthesia
- Minimal haemodynamic response
- Part of the ASA difficult airway algorithm

LMA Unique™: Product specification

<table>
<thead>
<tr>
<th>Mask size</th>
<th>Product code</th>
<th>Patient size</th>
<th>Maximum cuff volume (air)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>125010</td>
<td>Neonates/infants up to 5 kg</td>
<td>4 ml</td>
</tr>
<tr>
<td>1.5</td>
<td>125015</td>
<td>Infants 5-10 kg</td>
<td>7 ml</td>
</tr>
<tr>
<td>2</td>
<td>125020</td>
<td>Infants/children 10-20 kg</td>
<td>10 ml</td>
</tr>
<tr>
<td>2.5</td>
<td>125025</td>
<td>Children 20-30 kg</td>
<td>14 ml</td>
</tr>
<tr>
<td>3</td>
<td>125030</td>
<td>Children 30-50 kg</td>
<td>20 ml</td>
</tr>
<tr>
<td>4</td>
<td>125040</td>
<td>Adults 50-70 kg</td>
<td>30 ml</td>
</tr>
<tr>
<td>5</td>
<td>125050</td>
<td>Adults 70-100 kg</td>
<td>40 ml</td>
</tr>
</tbody>
</table>

*These are maximum volumes that should never be exceeded. It is recommended that the cuff be inflated to a maximum of 60 cm H2O intracuff pressure.

For the latest clinical evidence on LMA Unique™ visit www.lmaco.com/evidence
LMA Classic™: the classic laryngeal mask

- Eight sizes, from neonate to large adult
- Not made with natural rubber latex and re-usable up to 40 times
- Aperture bars designed to prevent the blockage of the airway by the epiglottis
- Soft, silicone cuff
- Facilitates smooth emergence from anaesthesia
- Minimal haemodynamic response
- Part of the ASA difficult airway algorithm

LMA Classic™: Product specification

<table>
<thead>
<tr>
<th>Mask size</th>
<th>Product code</th>
<th>Patient size</th>
<th>Maximum cuff volume (air)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>100010</td>
<td>Neonates/infants up to 5 kg</td>
<td>4 ml</td>
</tr>
<tr>
<td>1.5</td>
<td>100015</td>
<td>Infants 5-10 kg</td>
<td>7 ml</td>
</tr>
<tr>
<td>2</td>
<td>100020</td>
<td>Infants/children 10-20 kg</td>
<td>10 ml</td>
</tr>
<tr>
<td>2.5</td>
<td>100025</td>
<td>Children 20-30 kg</td>
<td>14 ml</td>
</tr>
<tr>
<td>3</td>
<td>100030</td>
<td>Children 30-50 kg</td>
<td>20 ml</td>
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<tr>
<td>4</td>
<td>100040</td>
<td>Adults 50-70 kg</td>
<td>30 ml</td>
</tr>
<tr>
<td>5</td>
<td>100050</td>
<td>Adults 70-100 kg</td>
<td>40 ml</td>
</tr>
<tr>
<td>6</td>
<td>100060</td>
<td>Large adults over 100 kg</td>
<td>50 ml</td>
</tr>
</tbody>
</table>

*These are maximum volumes that should never be exceeded. It is recommended that the cuff be inflated to a maximum of 60 cm H2O intracuff pressure.

For the latest clinical evidence on LMA Classic™ visit www.lmaco.com/evidence
LMA Fastrach™: the most dependable intubating airway for difficult situations

- Proven use in difficult to intubate patients\(^1\)
- Available as a single use device or re-usable up to 40 times
- High insertion success\(^1\)
- Not made with natural rubber latex
- Available in sizes 3, 4 and 5
- Dedicated single use or re-usable endotracheal tubes available for use with LMA Fastrach™

"The LMA Fastrach™ has made the process of blind intubation highly successful, unhurried and safe."\(^\text{16}\)
Korula G. et al., 2007

**LMA Fastrach™: Product specification**

<table>
<thead>
<tr>
<th>Mask size</th>
<th>Product code (re-usable)</th>
<th>Product code (single use)</th>
<th>Patient size</th>
<th>Maximum cuff volume (air)*</th>
<th>Largest ETT ID (mm)**</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>130030</td>
<td>135130</td>
<td>Children 30-50 kg</td>
<td>20 ml</td>
<td>6 6.5 7 7.5 8</td>
</tr>
<tr>
<td>4</td>
<td>130040</td>
<td>135140</td>
<td>Adults 50-70 kg</td>
<td>30 ml</td>
<td>6 6.5 7 7.5 8</td>
</tr>
<tr>
<td>5</td>
<td>130050</td>
<td>135150</td>
<td>Adults 70-100 kg</td>
<td>40 ml</td>
<td>6 6.5 7 7.5 8</td>
</tr>
</tbody>
</table>

**LMA Fastrach™ Endotracheal tube: Product specification**

<table>
<thead>
<tr>
<th>Tube size**</th>
<th>6.0 mm</th>
<th>6.5 mm</th>
<th>7.0 mm</th>
<th>7.5 mm</th>
<th>8.0 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code (re-usable)</td>
<td>131060</td>
<td>131065</td>
<td>131070</td>
<td>131075</td>
<td>131080</td>
</tr>
<tr>
<td>Product Code (single use)</td>
<td>136060</td>
<td>136065</td>
<td>136070</td>
<td>136075</td>
<td>136080</td>
</tr>
</tbody>
</table>

*These are maximum volumes that should never be exceeded. It is recommended that the cuff be inflated to a maximum of 60 cm H₂O intracuff pressure. **All sizes (6, 6.5, 7, 7.5 and 8) of re-usable LMA Fastrach™ ETT are compatible with LMA Fastrach™ and LMA Fastrach™ SU. However, only sizes 6, 6.5 and 7 of LMA Fastrach™ ETT SU are compatible with LMA Fastrach™ and LMA Fastrach™ SU.

For the latest clinical evidence on LMA Fastrach™ visit [www.lmaco.com/evidence](http://www.lmaco.com/evidence)
LMA Flexible™: truly flexible

- **Designed for shared airways** – airway tube can be moved out of the surgical field without displacement of the cuff, or loss of seal for the anaesthetist.
- **Improved recovery profile** – children undergoing adenotonsillectomies with LMA Flexible™ spent significantly less time in the operating room after surgery, had a lower incidence of airway irritation and experienced lower postoperative pain in the first 4 hours vs an ETT\(^\text{17}\).
- **Patient protection** – LMA Flexible™ acts as a barrier, preventing soiling of the glottis or trachea by blood or secretions from above\(^\text{18}\).

“The LMA Flexible™ provided an unobstructed airway in all patients. The LMA Flexible™ protects the larynx from contamination during and after the operation until the return of the patient’s own protective reflexes.”\(^\text{19}\)

**LMA Flexible™: Product specification**

<table>
<thead>
<tr>
<th>Mask size</th>
<th>Product code (re-usable)</th>
<th>Product code (single use)</th>
<th>Patient size</th>
<th>Maximum cuff volume (air)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>110020</td>
<td>115020</td>
<td>Infants/children 10-20 kg</td>
<td>10 ml</td>
</tr>
<tr>
<td>2.5</td>
<td>110025</td>
<td>115025</td>
<td>Children 20-30 kg</td>
<td>14 ml</td>
</tr>
<tr>
<td>3</td>
<td>110030</td>
<td>115030</td>
<td>Children 30-50 kg</td>
<td>20 ml</td>
</tr>
<tr>
<td>4</td>
<td>110040</td>
<td>115040</td>
<td>Adults 50-70 kg</td>
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<td>Adults 70-100 kg</td>
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<tr>
<td>6**</td>
<td>110060</td>
<td></td>
<td>Large adults over 100 kg</td>
<td>50 ml</td>
</tr>
</tbody>
</table>

*These are maximum volumes that should never be exceeded. It is recommended that the cuff be inflated to a maximum of 60 cm H\(_2\)O intracuff pressure. **Available for LMA Flexible™ re-usable only.

For the latest clinical evidence on LMA Flexible™ visit [www.lmaco.com/evidence](http://www.lmaco.com/evidence)
Find out more about the LMA™ airway portfolio

Clinical evidence
For the latest clinical evidence on LMA™ airway portfolio visit www.lmaco.com/evidence

make-a-switch.com
For more information on making the switch to second generation SADs, visit www.make-a-switch.com

YouTube
For the latest digital case reports, educational videos and clinician testimonials on the benefits of LMA™ airway portfolio, visit www.youtube.com/LaryngealMaskAirway

Facebook
For the latest news from LMA, like us on www.facebook.com/LMAInternational

LMA™
Better by Design
For product information and access to product instructions for use, visit www.lmaco.com

Teleflex
For information on other products within the Teleflex product portfolio, visit www.teleflex.com

References:
1. 4th National Audit Project of the Royal College of Anaesthetists and the Difficult Airway Society: Major Complications of Airway Management in the United Kingdom. Report and findings: March 2011. Editors: Dr Tim Cook, Dr Nick Woodall and Dr Chris Freerk.

Distributed by:
make-a-switch.com
For more information on making the switch to second generation SADs, visit www.make-a-switch.com

For the latest digital case reports, educational videos and clinician testimonials on the benefits of LMA™ airway portfolio, visit www.youtube.com/LaryngealMaskAirway

For the latest news from LMA, like us on www.facebook.com/LMAInternational

For product information and access to product instructions for use, visit www.lmaco.com

For information on other products within the Teleflex product portfolio, visit www.teleflex.com

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Le Rocher, Victoria, Mahé, Seychelles

Consult IFU on this website:
www.LMACO.com

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