

We understand that clinicians sometimes select an ET tube for optimum airway protection when LMA™ patient-friendly characteristics would be desirable.

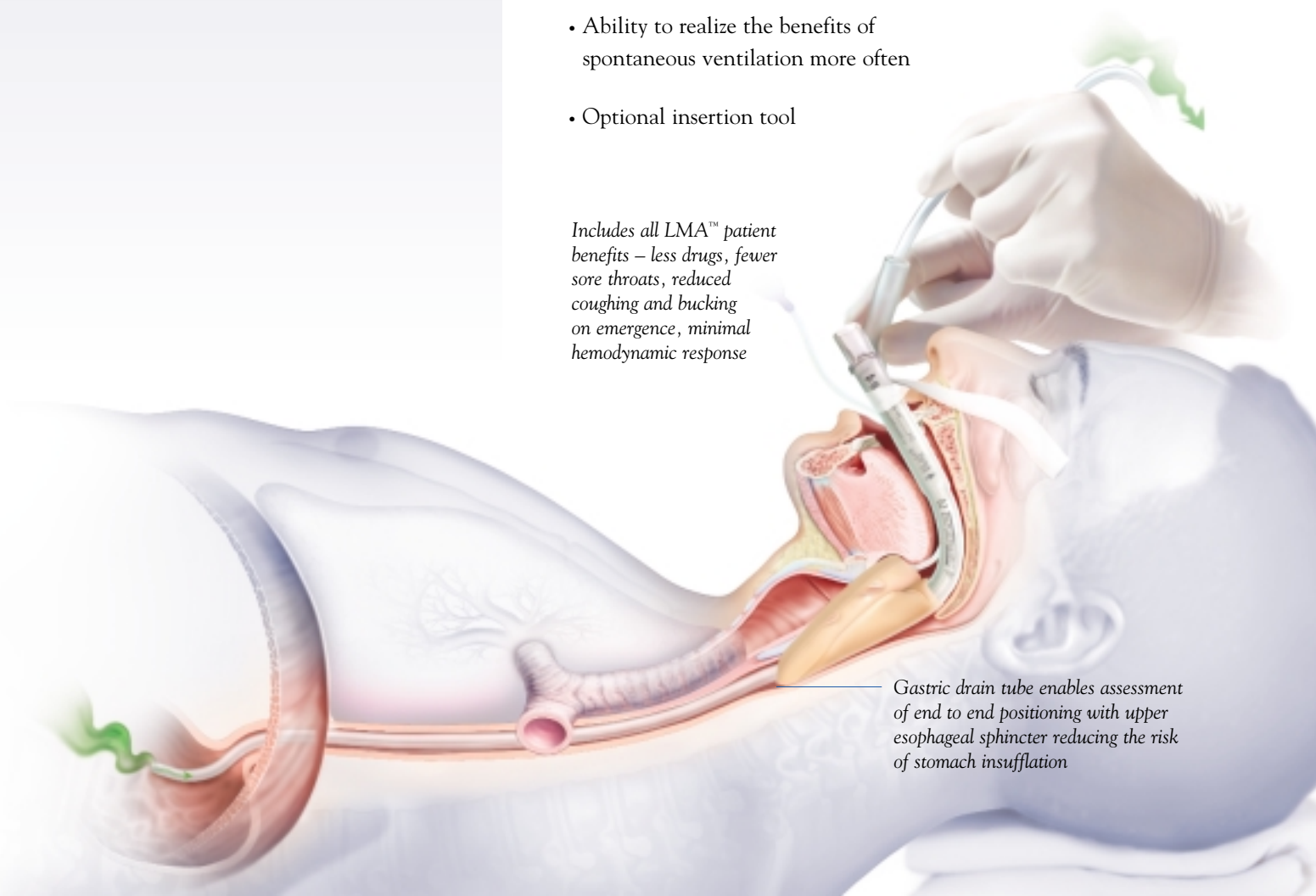
To enhance supraglottic airway protection and extend LMA™ benefits to a greater number of patients we developed the LMA ProSeal™.

Compared to the LMA Classic™ the added features of the LMA ProSeal™ include:

- A softer silicone cuff reducing the likelihood of throat irritation and stimulation
- 50% higher seal pressure – up to 30 cm H₂O – providing a tighter seal against the glottic opening with no increase in mucosal pressure
 - Provides more airway security
 - Enables use of PPV in those cases where it may be required – transient or extended, planned or unplanned
- A built-in drain tube designed to channel fluid away from the airway and permit gastric access for patients with GERD or during extended cases where endotracheal intubation is not required
- Ability to realize the benefits of spontaneous ventilation more often
- Optional insertion tool

Includes all LMA™ patient benefits – less drugs, fewer sore throats, reduced coughing and bucking on emergence, minimal hemodynamic response

Gastric drain tube enables assessment of end to end positioning with upper esophageal sphincter reducing the risk of stomach insufflation



LMA | ProSeal™

The following are some examples where LMA ProSeal™ can expand LMA™ use when endotracheal intubation is not required.

Patient Type	Consideration	Product Feature	Advantage
Diabetic	Retained gastric contents	Gastric drain tube	Permits active and passive decompression and suctioning of the stomach
Mild to Moderate Obesity	Retained gastric contents, abdominal pressure on lungs	Gastric drain tube, higher seal pressure (up to 30 cm H ₂ O)	Gastric drain tube permits active decompression and suctioning of the stomach, higher seal pressure permits positive pressure ventilation
Smoker or Asthmatic	Reactive airway	Noninvasive, soft silicone cuff	Less airway stimulation, less throat irritation
Controlled GERD	Reflux fluid	Higher seal pressure (up to 30 cm H ₂ O), gastric access tube	Tighter seal against glottic opening, gastric drain tube permits active or passive decompression and suctioning of the stomach, gastric drain tube designed to channel fluid away from the trachea

The cases mentioned above are based on a survey of anesthesiologists using LMA ProSeal™. Actual survey results on file.

Referenced in more than 90 publications, including:

Brain A.I., Vergheze C, Strube PJ. The LMA 'ProSeal' - a laryngeal mask with an oesophageal vent. *Br J Anaesthesiology*, 2000 May;84(5):650-4.

Brimacombe J, Keller C, Fullekrug B, Agro F, Rosenblatt W, Dierdorf S, Lucas EG, Capdevilla X, Brimacombe N. A multicenter study comparing the ProSeal and Classic laryngeal mask airway in anesthetized, nonparalyzed patients. *Anesthesiology* 2003 Feb;96(2):289-295.

Brimacombe J, Keller C, Berry A. Gastric insufflation with the ProSeal laryngeal mask. *Anesth Analg* 2001. Jun;92(6):1614-5.

Dierdorf SF. The LMA ProSeal™ for Hip Surgery in the Lateral Position. *LMANA Case Report* 2001.

Mark DA. Protection from aspiration with the LMA ProSeal after vomiting: a case report. *Can J Anesthesiology* 2003 Jan;50(1):78-80.



LMA ProSeal™ Quick Reference					Catalog Numbers			
Mask Size	Patient Size	*Maximum Cuff Volume (Air)	Largest Size OG Tube/ Salem Sump	Largest ETT ID (mm)	Standard Pack	Introducer Tool	Cuff-Deflator	*Pro-Pack
1 1/2	Infants 5-10kg	up to 7mL	10Fr / 8Fr	4.5 uncuffed	15115	15420	15330	-
2	Infants/Children 10-20kg	up to 10mL	10Fr / 8Fr	4.5 uncuffed	15120	15420	15330	15220
2 1/2	Children 20-30kg	up to 14mL	14Fr / 12Fr	4.5 uncuffed	15125	15420	15330	-
3	Children 30-50kg	up to 20mL	16Fr / 14Fr	5.0 uncuffed	15130	15430	15330	15230
4	Adults 50-70kg	up to 30mL	16Fr / 14Fr	5.0 uncuffed	15140	15430	15330	15240
5	Adults 70-100kg	up to 40mL	18Fr / 16Fr	6.0 uncuffed	15150	15430	15330	15250

*These are maximum inflation volumes that should never be exceeded. It is recommended the cuff be inflated to 60 cm H₂O intracuff pressure.
 ID = Internal Diameter ETT = Endotracheal Tube OG = Orogastric

*Pro-Pack includes 1 LMA ProSeal™ airway, 1 Introducer tool, and 1 Cuff-Deflator.



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