

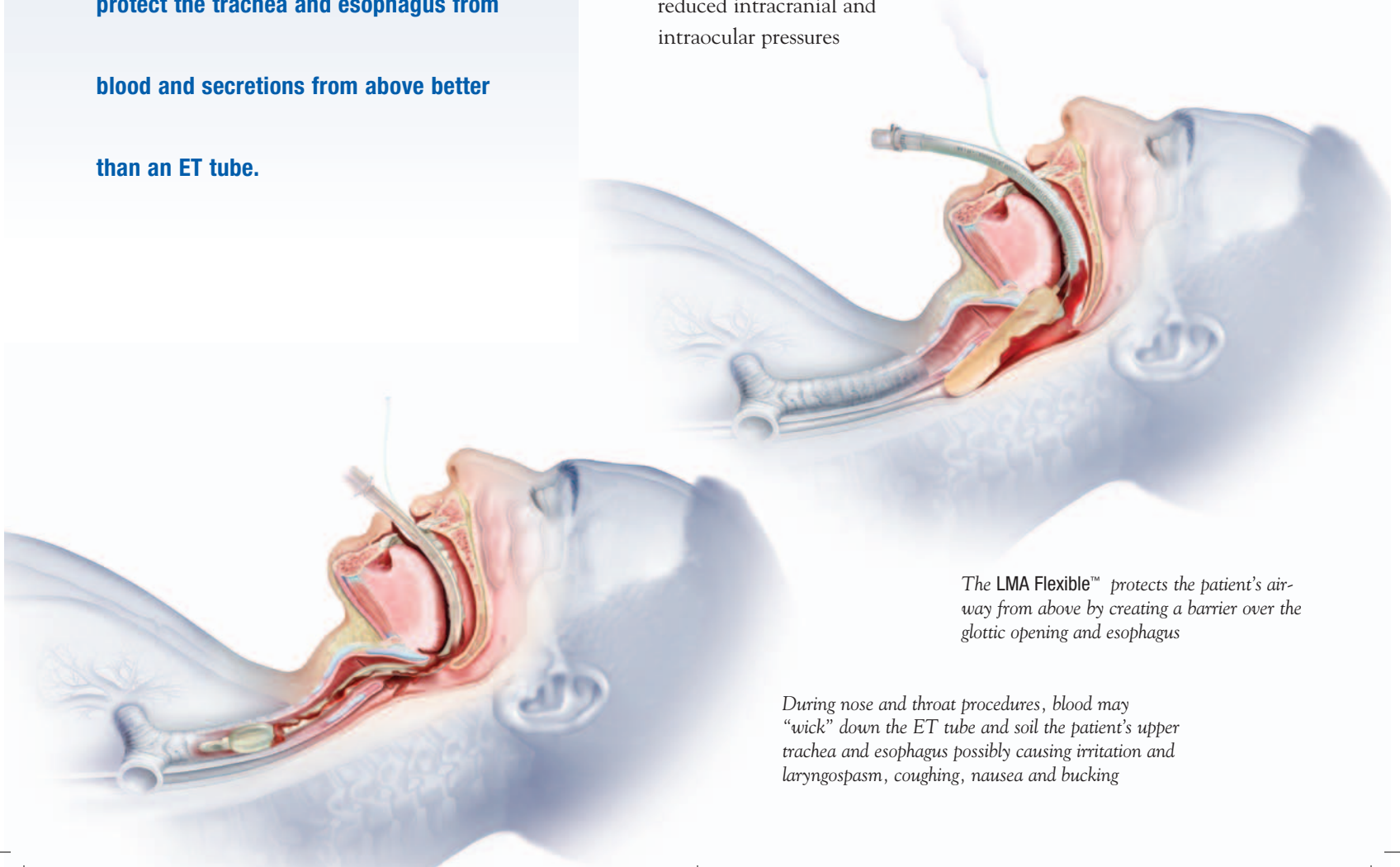
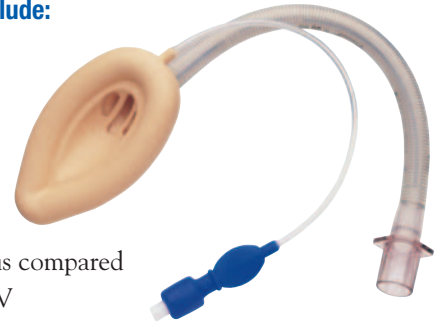
**LMA Flexible™**  
REUSABLE / SINGLE USE

## Expanding LMA™ patient benefits to ENT procedures

Patients undergoing delicate ear surgery, eye procedures, sinus surgery and other ENT procedures can benefit from minimal hemodynamic response, reduced intraocular pressure, less drugs and smooth emergence from anesthesia when the LMA Flexible™ airway is used. In addition, the LMA Flexible™ has been shown to protect the trachea and esophagus from blood and secretions from above better than an ET tube.

### Advantages of the LMA Flexible™ include:

- Better protection for the patient from blood and secretions from above the trachea compared to an ET tube
- Better protection for the esophagus compared to an ET tube—may reduce PONV
- Ability to realize the benefits of spontaneous ventilation more often
- Reinforced airway tube that may be positioned away from the surgical field without loss of seal
- Maintenance of LMA™ cuff stability during patient manipulation
- All LMA™ benefits—less drugs, reduced coughing and bucking on emergence, minimal hemodynamic response, reduced intracranial and intraocular pressures



*The LMA Flexible™ protects the patient's airway from above by creating a barrier over the glottic opening and esophagus*

*During nose and throat procedures, blood may "wick" down the ET tube and soil the patient's upper trachea and esophagus possibly causing irritation and laryngospasm, coughing, nausea and bucking*



The following are examples of procedures where LMA Flexible™ may be advantageous:

Procedure/Patient Type	Consideration	Product Feature/Characteristics	Advantage
External ear surgery	Surgical access, manipulation of head position, airway stability	Highly flexible tube	Tube may be positioned away from surgery site, cuff stability when patient or airway tube position is adjusted
Middle ear surgery	Surgical access, manipulation of head position, highly delicate surgery, airway stability	Smooth emergence, highly flexible tube	Cuff stability when patient or airway tube position is adjusted, tube may be positioned away from surgery site, reduced coughing and bucking postop
Ophthalmic surgery	Delicate surgery, airway stability, surgical access	Highly flexible tube, smooth emergence characteristics	Reduced intraocular pressure during surgery, reduced coughing and bucking postop, tube may be positioned away from surgery site
Sinus surgery, nasal surgery	Surgical access, airway stability, airway protection	Highly flexible tube, mask placement in hypopharynx over the glottic opening, low pressure seal at upper esophageal sphincter, smooth emergence characteristics	Tube positioned away from surgery site, better protection of the trachea from above, better protection of esophagus, stable cuff position with airway tube adjustment, reduced coughing and bucking postop

### Referenced in more than 60 publications, including:

Ahmed MZ, Vohra A. *The reinforced laryngeal mask airway (RLMA) protects the airway in patients undergoing nasal surgery – an observational study of 200 patients.* *Can J Anesthesia* 2002;49:863-866.

Brimacombe JR, Keller C, Gunkel AR, Puhlinger F. *The influence of the tonsillar gag on efficacy of seal, anatomic position, airway patency, and airway protection with the flexible laryngeal mask airway: a randomized, cross-over study of fresh adult cadavers.* *Anesth Analg* 1999 Jul;89(1):181-6.

Ruby TF, Webster AC, Morley-Forster PK, Dain S. *Laryngeal mask airway in paediatric otolaryngologic surgery.* *J Otolaryngology* 1995;24:288-291.

Webster AC, Morley-Forster PK, Janzen V, Watson J, Dain SL, Taves D, Dantzer D. *Anesthesia for intranasal surgery: a comparison between tracheal intubation and the flexible reinforced laryngeal mask airway.* *Anesth Analg* 1999 Feb;88(2):421-5.

Williams PJ, Bailey PM. *Comparison of the reinforced laryngeal mask airway and tracheal intubation for adenotonsillectomy.* *Br J Anaesthesia* 1993;70:30-33.



LMA Flexible™ Quick Reference				Catalog Numbers	
Mask Size	Patient Size	*Maximum Cuff Volume (Air)	Internal Diameter (mm)	Reusable	Single Use
2	Infants/Children 10-20kg	up to 10mL	5.1	11120	21120
2 1/2	Children 20-30kg	up to 14mL	6.1	11125	21125
3	Children 30-50kg	up to 20mL	7.6	11130	21130
4	Adults 50-70kg	up to 30mL	7.6	11140	21140
5	Adults 70-100kg	up to 40mL	8.7	11150	21150
6	Large Adults over 100kg	up to 50mL	8.7	11160	N/A

\*These are maximum inflation volumes that should never be exceeded. It is recommended the cuff be inflated to 60 cm H<sub>2</sub>O intracuff pressure.



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Better by Design™

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