





### LMA® Supreme™ Airway Sizing Guide

Recommended weight-based guidelines for determining the appropriate LMA® Supreme™ Airway for your patient

ITEM NUMBER	MASK SIZE	PATIENT WEIGHT (kg)	LARGEST SIZE OG TUBE (mm / Fr.)
ALBF010SU	1	up to 5	6
ALBF015SU	1.5	5-10	6
ALBF020SU	2	10-20	10
ALBF025SU	2.5	20-30	10
ALBF030SU	3	30-50	14
ALBF040SU	4	50-70	14
ALBF050SU	5	70-100	14

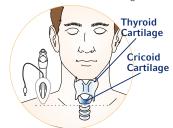
OG=OROGASTRIC TUBE

### **Alternative Sizing Methods**

#### Palatal - Cricoid Distance

Hold the LMA® Supreme™ Airway to the side of the patient's face. With the bite block positioned at the level of the palate, the distal tip of the mask should reach the level of the cricoid cartilage.





#### **Oral Airway Comparison**

Size the oral airway according to the traditional sizing method (angle of the jaw to the corner of the mouth). Choose the appropriate size LMA® Supreme™ Airway, based on the following:

80 mm oral airway (#3) = Size 3 LMA® Supreme<sup>™</sup> Airway 90 mm oral airway (#4) = Size 4 LMA® Supreme<sup>™</sup> Airway 100 mm oral airway (#5) = Size 5 LMA® Supreme<sup>™</sup> Airway<sup>1</sup>

 Evaluation of the LMA Supreme: a sizing and troubleshooting study. Allan J Goldman, MD\*, Daniel Langille, CRNA\*, Michael Flacco, MD\*\*, Mlohael Hom, MD\*\*, Roxanne Hertzog, MD\*\* \*The University of Washington Medical Center (Seattle, WA), \*\* Outpatient Anesthesia Services (Seattle, WA) (presented at the 2008 Society for Airway Management Annual Meeting)

<sup>\*</sup> It is recommended that the cuff be inflated to a maximum of 60 cm  $H_2$ 0 intracuff pressure.

## LMA® Supreme™ Airway Insertion Technique

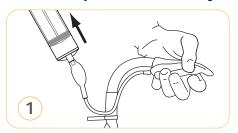


Figure 1: Fully deflate the mask for insertion. Attach a syringe. Compress the distal tip of the mask with thumb and index finger. Apply slight tension to the inflation line while removing all air until a vacuum is felt. Disconnect the syringe.

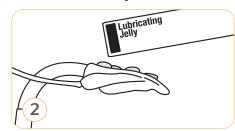


Figure 2: Generously lubricate the posterior surface of the cuff and airway tube.



**Figure 4:** Press the tip of the mask against the hard palate. Maintaining pressure against the palate, continue to rotate the mask inwards in a circular motion following the curvature of the hard and soft palate.



**Figure 5:** Continue until resistance is felt. The distal end of the mask should now be in contact with the upper esophageal sphincter. The device is now fully inserted.



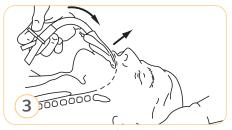


Figure 3: Place the patient's head in a neutral or slight "sniffing" position. Hold the LMA® Supreme™ Airway at the proximal end with the connector pointing downward to the chest and the tip of the distal end pointing toward the palate.

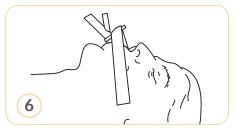
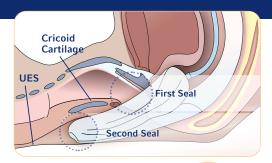


Figure 6\*: Maintaining inward pressure, secure the mask into position by taping cheek to cheek across the fixation tab. This should be done prior to inflation. Inflate with the minimum amount of air needed to achieve an effective seal. The recommended intracuff pressure should not exceed 60 cm H.O.

### **Diagnostic Tests**

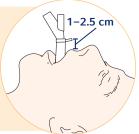
After the LMA® Supreme™ Airway is inserted, secured and inflated, diagnostic tests #1 and #2 should be performed to confirm the complete separation of the respiratory and alimentary tracts, or the LMA® Supreme™ Airway oropharyngeal and esophageal seal, respectively. Diagnostic Test #3 is optional.



#### **Diagnostic Test #1: Fixation Tab Test**

(Recommended to confirm correct size and esophageal seal)

After fixation, the taping tab should be positioned 1 to 2.5 cm from the upper lip. If the taping tab is more than 2.5 cm from the upper lip, this suggests the device may be too big. If the taping tab is less than 1 cm from the lip, this suggests the device may be too small. At no time should the taping tab be in contact with the upper lip. Use clinical judgment to replace a mask that appears too big or small.



#### Diagnostic Test #2: Gel Test

(Recommended to confirm correct size and esophageal seal)

Apply ¼ inch of (viscous) water-soluble sterile lubricant to the proximal end of the drain tube and hand ventilate. The gel should remain covered across the top of the drain tube. This indicates that the esophageal seal has been achieved by ensuring the tip of the mask is against the upper esophageal sphincter.







## **Troubleshooting**

If an adequate seal is not achieved or airway obstruction develops, refer to the following chart:

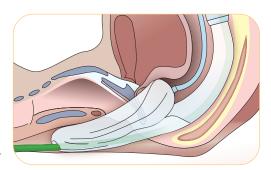
PROBLEM CAUSE		TROUBLESHOOTING		
Air leak – lack of adequate seal.	Not enough air in cuff.	Inflate with more air.	See sizing and inflation guidelines on LMA® Airway Sizing Guide Card.	
Gel "blows off" gastric port with hand ventilation.	Insufficient depth. The distal tip of the drain tube is exposed and not properly positioned under the arytenoids. No second seal.	Advance the mask further into place until resistance is felt. Apply the gel again to the proximal end of the drain tube and hand ventilate.  The gel should stay in place if the mask tip is posterior to the arytenoids and properly positioned at the upper esophageal sphincter.	Arytenoids	
Airway obstruction.	The mask tip has likely entered the glottis.	Remove the mask. Deflate the mask entirely and reinsert the LMA® Supreme™ Airway with the head in the neutral or "partial sniffing" position. A jaw thrust may be an effective technique.	Arytenoids	
Continued air leak.	Mask too small.	Inflate with more air.	See sizing and inflation guidelines on LMA® Airway Sizing Guide Card.	
Can't pass the	1. Wrong size OG tube	/rong size OG tube 1. See maximum size OG tube information for correct sizing		
	2. Insufficient lubrication	2. Apply more water soluble lubricant		
	3. Drain tube occluded by mask tip fold over	3. Perform a supra sternal notch test (SSN) by pressing on the tracheal rings above the sternum. The gel placed at the proximal end of the drain tube should move slightly indicating drain tube patency. No movement of the gel may indicate occlusion of the drain tube due to mask fold over (negative test). In the event of a negative test, remove the LMA® Supreme™ Airway and reinsert. Perform the SSN test again to verify drain tube patency (positive test).	f on LMA® Airway Sizing Guide Card.	

### **Diagnostic Tests**

#### Diagnostic Test #3: OG Tube Placement (optional)

(Inserting an OG tube allows the option to either suction or decompress the stomach. Successful passage of an OG tube is definitive confirmation of drain tube patency and tract separation).

To facilitate gastric decompression and/or drainage, an OG tube can be placed into the drain tube of the LMA® Supreme™ Airway and advanced into the stomach at any time during the procedure. **Refer to the Sizing Guide table for maximum gastric tube sizes.** The gastric tube should be well lubricated and passed slowly and carefully. Suction should not be performed until the gastric tube has reached the stomach.



Suction should not be applied directly to the end of the drain tube. It is clinical preference to either remove the OG tube or leave it in place. If left in place, in the unlikely event of active or passive (non-suctioned) regurgitation, the drain tube would lose its patency.

See Instructions For Use for detailed information regarding the Instructions For Use, Contraindications, Potential Adverse Events, Warnings, and Cautions.

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