LMA®

LMA® Protector™ Airway

with Cuff Pilot™ Technology

Revolutionizing Airway Access

Teleflex®

Our Past Inspiring Our Future

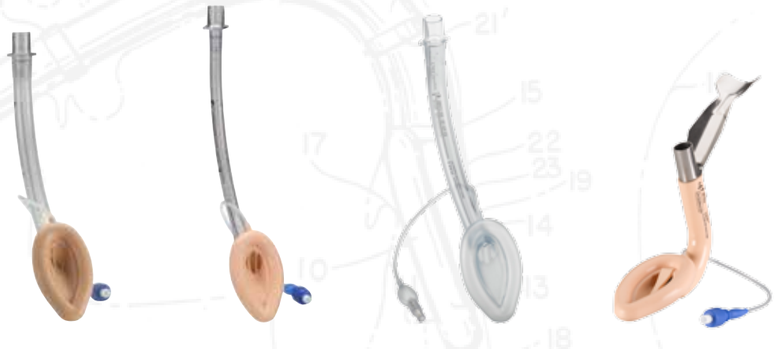
In 1988 the practice of anesthesia was revolutionized by Dr. Archie Brain with the development of the first LMA® Airway. Today, the LMA® Brand from Teleflex has a rich history of innovation supported by millions of global uses and thousands of clinical studies. Teleflex is continuing this legacy, driving the innovation of technologies designed to improve patient outcomes and procedural efficiencies.

3,000
published references

300
million patient uses

Every **3 seconds**
an LMA® Airway is used somewhere in the world


Dr. Archie Brain

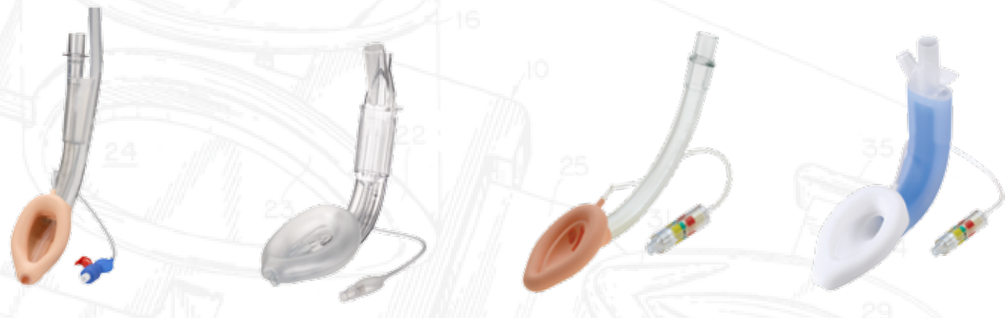


1988
LMA® Classic™ Airway
The first LMA® Airway

1990
LMA® Flexible™ Airway
The LMA® Airway for head and neck surgery

1997
LMA® Unique™ Airway
The most versatile single-use LMA® Airway

1997
LMA® Fastrach™ Airway
The emergency, intubating LMA® Airway



2000
LMA® ProSeal™ Airway
The original, reusable second-generation LMA® Airway

2005
LMA® Supreme™ Airway
The innovative, advanced, safe second-generation LMA® Airway

2015
LMA® Unique™ (Silicone Cuff) Airway
Responding with silicone

2015
LMA® Protector™ Airway
The most advanced LMA® Airway

"The LMA®, a simple but brilliant idea, has made the life of the anesthetist much easier, and the life of our patients for whom we care that much safer"

T. C. R. V. van Zundert, J. R. Brimacombe, D. Z. Ferson, D. R. Bacon and D. J. Wilkinson, "Archie Brain: celebrating 30 years of development in laryngeal mask airways"; Anaesthesia 2012, 67, 1375–1385

There are clear benefits of using an LMA® Airway vs. an ETT which include:[1]

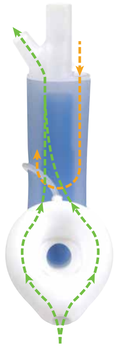
- *Improved hemodynamic stability at induction and during emergence*
- *Minimal increase in intraocular pressure following insertion*
- *Reduced anesthetic requirements for airway tolerance*
- *Lower frequency of coughing during emergence*
- *Improved oxygen saturation during emergence*
- *Lower incidence of sore throats in adults*
- *Increased speed and ease of placement by inexperienced personnel*
- *Increased speed of placement by anesthesiologists*
- *Using an endotracheal tube in place of an LMA® Airway has been shown to result in increased drug cost and higher overall costs depending on the length of the case[2]*

Revolutionizing airway access

LMA® Protector™ Airway
with Cuff Pilot™ Technology

The LMA® Protector™ Airway ushers in a new era in the evolution of airway management and is the most advanced, single-use, second-generation supraglottic airway device available from Teleflex. Its unique combination of innovative capabilities are designed to help clinicians reduce the risk of airway-related complications and improve patient outcomes.

Silicone cuff with First Seal™ and Second Seal™ Technology
The soft, silicone, elongated inflatable cuff is designed to conform to the contours of the hypopharynx and achieve an oropharyngeal seal (First Seal™ Technology) equivalent to the LMA® ProSeal™ Airway (>30 cm H_2O). The esophageal seal (Second Seal™ Technology) secures the distal tip at the upper esophageal sphincter and is designed to minimize gastric insufflation and facilitate gastric access.



Dual gastric access
Effective gastric access is considered to be important in advanced uses where gastric content is unknown and/or there is an increased risk of regurgitation. LMA® Protector™ Airway features a proprietary dual gastric drainage channel and suction ports, combined with a high capacity gastric chamber, allowing for suction and decompression of the stomach via a gastric tube, while providing exit channels for gastric contents in the event of regurgitation.

Phthalate free

Second Seal™ Technology
(facilitates esophageal seal)

First Seal™ Technology
(facilitates oropharyngeal seal)

Silicone design with dynamic curve
The multipurpose, single-use laryngeal mask features a 100% silicone airway tube and cuff, with a dynamic curve that conforms to contours of the anatomy, allowing for rapid insertion and a secure fit in both routine and unexpected difficult airway situations.

100% silicone
airway tube and cuff

Ability to intubate
The airway tube allows for effective, direct intubation with endotracheal tubes up to 7.5 mm.

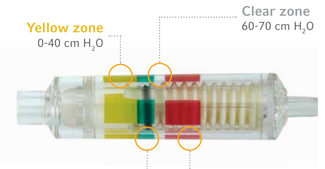
MR safe*

Cuff Pilot™ Technology
Integrated cuff pressure monitoring.

* LMA Protector™ Airway with Cuff Pilot™ only

Cuff Pilot™ Technology
Integrated cuff pressure monitoring

The LMA® Protector™ Airway is configured with Cuff Pilot™ Technology, the world's first integrated cuff pressure indicator for single-use airway management devices. This enables clinicians to ensure that the inserted cuff is correctly inflated, allows them to monitor pressure levels at a glance and adjust appropriately. Incorrectly inflated cuffs can have an adverse effect on patient safety.[3]



Studies show that clinicians are needlessly overinflating the cuffs of laryngeal mask airways, impairing their function and giving half of patients sore throats. In some reports, 70% of laryngeal mask airways were overinflated and, in one, a staggering 97%. It has been shown repeatedly that injecting the maximum recommended volume of air results in cuff pressures approximately twice the maximum recommended and even as high as 200 cm H_2O. Multiple studies in tracheal tubes and laryngeal mask airways have shown that clinicians, regardless of experience and seniority, are poor at judging cuff pressures manually.[3]

> *The painful truth is that we clinicians are needlessly overinflating LMA® cuffs, impairing their function and giving half of our patients sore throats*
>
> *E. Bick, I. Bailes, A. Patel, A. I. J. Brain. Fewer sore throats and a better seal: why routine manometry for laryngeal mask airways must become the standard of care. Anaesthesia 2014.*

References:

1. Brimacombe J. The advantages of the LMA over the tracheal tube or facemask: a meta-analysis. *Can J Anaesth.* 1995;42(11):1017-1023.
2. Macario A, Chang PC, Stempel DB et al. A cost analysis of the laryngeal mask airway for elective surgery in adult outpatients. *Anesthesiol.* 1995;83(2):250-257.
3. Bick E, Bailes I, Patel A, Brain AI. Fewer sore throats and a better seal: why routine manometry for laryngeal mask airways must become the standard of care. *Anaesthesia*. 2014;69(12):1304-1308.

Teleflex is a global provider of medical technologies designed to improve the health and quality of people's lives. We apply purpose-driven innovation – a relentless pursuit of identifying unmet clinical needs – to benefit patients and health-care providers. Our portfolio is diverse, with solutions in the fields of vascular and interventional access, surgical, anesthesia, cardiac care, urology, emergency medicine and respiratory care. Teleflex employees worldwide are united in the understanding that what we do every day makes a difference. For more information, please visit teleflex.com.

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