The LMA Fastrach™ does not reliably protect the airway from the effects of regurgitation and aspiration. When used out of the emergency and difficult airway management contexts, LMA Fastrach™, on its own, is contraindicated for use under the following conditions:

1. Non-fasted patients, including patients whose fasting cannot be confirmed and in other situations where there may be retained gastric contents.
2. Patients who are, more than 14 weeks pregnant, or those with any condition associated with delayed gastric emptying, or using opiate medication prior to fasting.
3. Patients with fixed decreased pulmonary compliance, such as patients with pulmonary fibrosis or because the peak airway inspiratory pressures are anticipated to exceed 20 cm H₂O.
4. Adult patients who are unable to understand instructions or cannot adequately answer questions regarding their medical history.
5. Patients whose head needs to be turned to the side during the case.
6. Patients in the prone position.
7. Patients who are not profoundly unconscious and who may resist device insertion.
8. Intubation through the device is contraindicated in the presence of oesophageal or pharyngeal pathology.
9. The reusable LMA Fastrach™ should not be used in patients eligible for magnetic resonance imaging (MRI) investigation. LMA Fastrach™ (reusable) is MR Unsafe.

ADVERSE EFFECTS:
There are reported adverse reactions associated with the use of laryngeal mask airways. Standard textbooks and published literature should be consulted for specific information.

WARNINGS:
1. Do not use a device if it is damaged.
2. Do not immerse or soak the device in liquid prior to use.
3. The use of a standard, curved, plastic ETT in conjunction with LMA Fastrach™ is not recommended as it may be associated with increased likelihood of laryngeal trauma.
4. The rigid tube and handle of the LMA Fastrach™ may make it unsuitable as the sole airway in cases where the head needs to be turned to the side or in cases where the patient is in the prone position.
5. Never over-inflate the cuff over 60cm H₂O. Excessive intra-cuff pressure can result in malposition and pharyngo-laryngeal morbidity, including sore throat, dysphagia and nerve injury.
6. To avoid trauma, excessive force should not be used at any time when using the device.
7. If the LMA Fastrach™ is retained in the patient after intubation, the cuff should be deflated to 20-30 cm H₂O pressure. This low pressure stabilizes the airway in the pharynx. Avoid unnecessary movement of the device and maintain head or neck in a neutral position.
8. Displacement of the LMA Fastrach™ ET (oesophageal intubation, accidental extubation) may occur if the LMA Fastrach™ removal procedure is not performed correctly. In these cases a correctly deflated LMA Fastrach™ should be re-inserted without delay to ensure patient oxygenation.
9. Ensure that the patient is anaesthetised, paralysed and pre-oxygenated. Inadequate anaesthesia depth and/or muscle paralysis may cause the glottis to close, preventing entry of the ETT into the larynx.
10. It is most important that pre-use checks are carried out on the LMA Fastrach™ prior to use, in order to establish whether it is safe for use. Failure of any one test indicates the device should not be used.
11. When applying lubricant avoid blockage of the airway aperture with the lubricant.
12. A water-soluble lubricant, such as K-Y Jelly®, should be used. Do not use silicone-based lubricants as they degrade LMA Fastrach™ components. Lubricants containing Lidocaine are not recommended for use with the device. Lidocaine can delay the return of the patient’s protective reflexes expected prior to removal of the device, may possibly provoke an allergic reaction, or may affect the surrounding structures, including the vocal cords.
13. Do not use germicides, disinfectants, or chemical agents such as glutaraldehyde (e.g. Cidex®), ethylene oxide, phenol-based cleaners, iodine-containing cleaners or quaternary ammonium compounds to clean or sterilise LMA Fastrach™. Such substances are absorbed by the device materials, resulting in exposure of the patient to unnecessary risk and possible deterioration of the device. Do not use a device that has been exposed to any of these substances.
14. Failure to properly clean, rinse and dry a device may result in retention of potentially hazardous residues or inadequate sterilisation.
15. Never use the handle of LMA Fastrach™ to lever upwards during insertion as this will cause the mask to press into the tongue, making insertion more difficult.
16. Diffusion of nitrous oxide, oxygen, or air may increase or decrease cuff volume and pressure. In order to ensure that cuff pressures do not become excessive, cuff pressure should be measured regularly during a case with a cuff pressure monitor.
17. When using the device in special environmental necessary preparation and precautions have been taken, especially with regard to fire hazards and prevention. The device may be flammable in the presence of lasers and electrocautery equipment.
18. The LMA Fastrach™ does not always protect against regurgitation or aspiration. Its use in anaesthetized patients should be restricted to fasting patients. A number of conditions predispose to regurgitation under anaesthesia. Do not use the device without taking appropriate precautions to ensure the stomach is empty.
19. LMA Fastrach™ (reusable) is MR Unsafe.

CAUTIONS:
1. An unreliable or obstructed airway may result in cases where the device has been incorrectly inserted.
2. Careful handling is essential. Avoid contact with sharp or pointed objects at all times to prevent tearing or perforation of the device.
3. When passing a fiberoptic bronchoscope (FOB), it should not be passed through the LMA Fastrach™ airway aperture unless protected by the ETT. Otherwise, the FOB tip may be damaged by contact with the epiglottis elevating bar.
4. Laryngeal spasm may occur if the patient becomes too lightly anaesthetised during surgical stimulation or if bronchial secretions irritate the vocal cords during emergence from anaesthesia. If laryngeal spasm occurs, treat the cause. Only remove the device when airway protective reflexes are fully competent.
5. Do not pull or use undue force when handling the inflation line or try to remove the device from patient by the inflation tube as it may detach from the cuff splot.
6. If airway problems persist or ventilation is inadequate, the LMA Fastrach™ should be removed and an airway established by some other means.
7. Store the device in a dark cool environment, avoiding direct sunlight or extremes of temperatures.
8. Used device shall follow a handling and elimination process for bio-hazard products, in accordance with all local and national regulations.

9. Ensure all removable denture work is removed before inserting the device.

10. Gloves should be worn during preparation and insertion to minimize contamination of the device.

11. The LMA Fastrach™ is not indicated for use as an alternative to the endotracheal tube (ETT)

12. Clinicians must weigh the theoretical risk against the benefits of establishing an airway with the LMA Fastrach™ in patients in whom cervical spine motion is undesirable.

13. Only use with the recommended manoeuvres described in the instructions for use.

**PREPARATION FOR USE:**

**Choose the correct size of LMA Fastrach™**

**Patient Weight/Size**

| Size 3: | 30kg – 50kg children |
| Size 4: | 50kg – 70kg adult |
| Size 5: | 70kg – 100kg adult |

Both reusable and single use LMA Fastrach™ ETT are available in a variety of sizes and can be used conventionally as an endotracheal tube.

All sizes (6, 6.5, 7, 7.5 and 8) of reusable LMA Fastrach™ ETT are compatible with both reusable and single use LMA Fastrach™.

However, for LMA Fastrach™ (ETT SU), only sizes (6, 6.5 and 7) are compatible with both reusable and single use LMA Fastrach™ as tabulated below:

<table>
<thead>
<tr>
<th>Device</th>
<th>Compatible with the below ETT sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LMA Fastrach™</td>
<td>LMA Fastrach™ Size: 6, 6.5, 7, 7.5 &amp; 8</td>
</tr>
<tr>
<td>LMA Fastrach™ &amp;</td>
<td>ETT (Reusable)</td>
</tr>
<tr>
<td>LMA Fastrach™</td>
<td>LMA Fastrach™ Size: Only 6, 6.5 &amp; 7</td>
</tr>
<tr>
<td>SU</td>
<td>ETT SU (Single Use)</td>
</tr>
</tbody>
</table>

Caution: Clinical judgment should be used in the selection of the appropriate device size for an individual patient.

**PRE-USE CHECKS:**

**Warning:** It is most important that pre-use checks are carried out on LMA Fastrach™ prior to use, in order to establish whether it is safe for use.

**Warning:** Failure of any one test indicates the device should not be used.

These tests should be carried out as follows:

1. Examine the interior and exterior of the airway tube to ensure it is free from blockage or loose particles. Examine the tube throughout its length. Should any cuts or indentations be found, discard the device.

2. Examine the angle between the straight part of the airway tube and the anterior plane of the inflated cuff. The angle should never exceed 90 degrees.

3. Examine the Epiglottis Elevating Bar (EEB). Gently probe the flexible EEB traversing the mask aperture to ensure the free end of the bar lies in contact with the mask and is not broken or damaged. Do not use if the EEB is not intact and positioned correctly as the epiglottis may obstruct the airway. Do not attempt to remove or repair a broken/damaged bar.

4. Deflate the cuff fully. Ensure that the cuff walls are tightly flattened against each other. Discard if cuff re-inflates immediately or spontaneously, even if only slightly, indicating possible damage to device or valve.

5. **Overinflate the Cuff.** Reinflate the device with a volume of air 50% greater than the maximum inflation value for each size.

| Size 3 | 30ml |
| Size 4 | 45ml |
| Size 5 | 60ml |

Keep a clearly marked syringe for inflation and deflation of the cuff.

Examine the cuff for leaks, herniations and uneven bulging. If any indication of these, discard the device. A herniating mask may cause obstruction during use. While the device remains 50% over-inflated, examine the inflation pilot balloon and inflation line. The balloon shape should be elliptical, not spherical or with any bulges.

**PRE-INSERTION PREPARATION:**

**Deflate completely:** Deflate the LMA Fastrach™ by using the syringe or LMA™ Cuff Deflator to create a fully deflated and smooth leading edge, facilitating insertion and avoiding contact with the epiglottis.

**Warning:** For LMA Fastrach™, lubricate only the posterior surface of the deflated mask tip. Do not lubricate the front as this may result in blockage of the EEB or aspiration of lubricant.

**Warning:** A water-soluble lubricant, such as K-Y Jelly®, should be used. Do not use silicone-based lubricants as they degrade LMA Fastrach™ components. Lubricants containing Iodocaine are not recommended for use with the device. Lidocaine can delay the return of the patient’s protective reflexes expected prior to removal of the device, may possibly provoke an allergic reaction, or may affect the surrounding structures, including the vocal cords.

**Caution:** Ensure all removable denture work is removed before inserting the device.

**INSERTION:**

**Caution:** Gloves should be worn during preparation and insertion to minimize contamination of the device.

**Caution:** The patency of the airway should be reconfirmed after any change in the patient’s head and neck position.

**Warning:** Do not use force under any circumstances

1. Anaesthesia must be deep enough or with adequate pharyngeal topicalisation to permit insertion.

2. Position the head in a neutral position, with a pillow under the head. Do not extend the head.

3. Hold LMA Fastrach™ by its handle, approximately parallel to the patient’s chest. Position the mask tip against the hard palate and slide the tip briefly back and forth to distribute the lubricant and prevent folding of the tip, before sliding the mask further backwards following the curve of the rigid airway tube (Fig.1). Do not use the device handle as a lever to force the mouth open.

4. **Advance (without rotation)** the curved airway tube until the straight part of the airway tube is in contact with the chin. Rotate the mask into place in a circular movement, ensuring pressure is maintained against the soft palate and posterior pharynx (Fig.2).

**Warning:** Never use the handle to lever upwards during insertion as this will cause the mask to press into the tongue, making insertion more difficult.

5. After insertion, check the tube emerging from the mouth is parallel to the plane of the inner surface of the upper incisors.

6. Inflate the cuff to a pressure sufficient to prevent a leak during positive pressure ventilation, but not exceeding either a cuff pressure of 60 cm H₂O, or the maximum inflation volume for each size.

**Warning:** NEVER OVERINFLATE THE CUFF.

**Maximum inflation volumes (ml)**

| Size 3 | 20ml |
| Size 4 | 30ml |
| Size 5 | 40ml |

7. Connect to the anaesthetic system. Exercise care to prevent dislodgement of the device.

8. Stabilize the device in neutral position (e.g. with bilateral bite blocks. Bite block should be removed prior to intubation to allow adjustment of LMA Fastrach™ position.

**Warning:** If the LMA Fastrach™ is the sole airway, it is very important to monitor cuff pressure and to ensure that the device is stabilised in a neutral position to prevent unnecessary movement.

**Figure 1**

**Figure 2**

**INTUBATION:**

Below describes various methods of intubation using LMA Fastrach™ ETT with and without an assisting device. It is recommended to use LMA Fastrach™ with LMA Fastrach™ for optimal intubation. Teleflex Medical will not be liable for use of an inappropriate ETT.

**Caution:** If LMA Fastrach™ is used, ensure it is properly positioned before attempting intubation.

**Warning:** Ensure that the patient is anaesthetised, paralysed and pre-oxygenated. Inadequate anaesthesia depth and/or muscle paralysis may cause the glottis to close, preventing entry of the ETT into the larynx.

**TRACHEAL INTUBATION WITH THE LMA FASTRACH™:**

1. After checking the cuff seal, deflate the ETT cuff completely before the insertion of ETT into the airway tube of LMA Fastrach™.

2. Pass the ETT into the airway tube of LMA Fastrach™ and distribute the lubricant within the shaft by moving the ETT up and down until it travels freely through the entire airway tube.

**Warning:** Avoid the ETT down and up movements with high speed and large amplitude as this manoeuvre could result in cuff damage.

3. Position the longitudinal line of the ETT to face the handle of LMA Fastrach™. Gently insert the ETT into the device airway tube. The ETT should not pass beyond the 15 cm transverse depth marker. Ensure that the tip of the ETT does not enter the mask aperture (Fig.3).

4. Grip the handle firmly and lift the device using the handle to draw the larynx forward by a few millimetres to increase seal pressure and optimize alignment of the trachea and ETT axes (Fig.4).
5. Slide the ETT gently into the LMA Fastrach™ another 1.5cm past the 15cm mark. If no resistance is felt, continue to advance the ETT while holding the device steady until intubation is accomplished.

6. Inflate the cuff of the ETT.

7. Confirm intubation by conventional means (e.g. end tidal CO₂).

INTUBATION WITH LMA FASTRACH™ AND WITH FIBREOPTIC BRONCHESCOPE (FOB) ASSISTANCE:

1. Pass a self-sealing connector with a suitable side-arm through the ETT to permit continued ventilation.

2. Select an FOB of an appropriate diameter and length to pass within the ETT. When fully inserted, the FOB should not protrude through the end of the assembled ETT and sealing port. It should also not pass beyond the EEB of LMA Fastrach™ unless protected by the ETT. Otherwise its tip may be deviated or damaged by the EEB.

3. Insert the ETT up to 15cm depth, verify with the FOB that the ETT tip contacts the EBB of the device.

4. At 16.5cm depth, verify with the FOB that the ETT lifts the EEB showing the glottis.

5. Advance the ETT into the trachea; avoid pushing on the EEB with the FOB.

6. Inflate the cuff of the ETT.

REMOVAL OF THE LMA FASTRACH™ AFTER TRACHEAL INTUBATION:

Warning: There are reports of pharyngeal oedema and increased mucosal pressure attributed to the rigidity of the airway tube. It is recommended to remove LMA Fastrach™ once intubation has been accomplished. High pressures may develop against the pharyngeal wall if the head or neck is moved from the neutral position, due to the rigidity of the curved airway tube. The risk of maintaining in place the LMA Fastrach™ must be weighed against the potential risks associated with the manoeuvre of removal of the device.

Warning: If the LMA Fastrach™ is retained in the patient after intubation, the cuff should be deflated to 20-30 cm H₂O pressure. This low cuff pressure stabilizes the airway in the pharynx. Avoid unnecessary movement of the device and maintain head or neck in a neutral position.

Warning: Displacement of the LMA Fastrach™ ETT (oesophageal intubation, accidental extubation) may occur if the LMA Fastrach™ removal procedure is not performed correctly. In these cases a correctly deflated LMA Fastrach™ should be reinserted without delay to ensure patient oxygenation.

1. Using the LMA™ Stabiliser Rod, measure the approximate distance between the proximal end of the ETT and the patient’s teeth.

2. Following pre-oxygenation of the patient, disconnect the circuit leaving the ETT connector attached. Fully deflate the LMA Fastrach™ cuff, making sure the ET cuff remains inflated.

3. Gently tap or swing the device handle caudally around the chin. Using the curvature of the airway tube, slide the device out of the pharynx into the oral cavity, applying counter pressure to the ETT with the finger (Fig.5).

4. When the proximal end of the ETT is level with the proximal end of the airway tube, remove the ETT connector and insert the Stabiliser Rod to keep the ETT in place. Holding the Stabiliser Rod, slide out the LMA Fastrach™ SU over the ETT and LMA™ Stabiliser Rod until it is clear of the mouth. (Fig.6)

5. Remove the LMA™ Stabiliser Rod when the LMA Fastrach™ cuff is clear of the mouth while holding the ETT in place to prevent accidental dislodgment (Fig.7). Grasp the ETT firmly while gently unthreading the inflation line and pilot balloon from the LMA Fastrach™ tube (Fig.8).

Caution: Failure to remove the LMA™ Stabiliser Rod from airway tube before completely removing the LMA Fastrach™ may result in the ETT being accidentally pulled out or the pilot balloon or inflation line tubing being damaged.

6. Using the LMA™ Stabiliser Rod, check the position of the ETT by measuring the distance of the proximal end from the teeth. If, during removal of the LMA Fastrach™, any displacement of the ETT has occurred, an appropriate adjustment will need to be made.

7. Replace the ETT connector and ventilate the patient.

Caution: Verify correct tube placement and patient oxygenation immediately after LMA Fastrach™ removal, or if the patient’s position is altered after intubation.

8. ETT should be securely anchored using a bite-block to avoid unnecessary movement or damage.

In elective cases, after removal, LMA Fastrach™ may be re-inserted behind the ETT to provide an immediate airway if deep extubation is planned or extubation is clinically determined to be hazardous.

REMOVAL OF THE LMA FASTRACH™ ETT:

Clinical judgment should be used to determine how long LMA Fastrach™ ETT is to remain in the patient.

1. Immediately prior to extubation or repositioning of the LMA Fastrach™ ETT, completely deflate the cuff using a syringe.

2. Exubate using currently accepted medical techniques.

CLEANING:

Thoroughly wash the cuff and airway tube in warm water using a dilute (8-10% v/v) sodium bicarbonate solution until all visible foreign matter is removed.

Mild detergents or enzymatic cleaning agents may be used in accordance with the manufacturer’s instructions and at the proper dilution. The detergent must not contain skin or mucous membrane irritants. A specific cleaner found to be compatible with LMA™ airway use is Endozime® (Ruhof, Valley Stream, NY).

Warning: Do not use germicides, disinfectants, or chemical agents such as glutaraldehyde (e.g. Cidex™), ethylene oxide, phenol-based cleaners, iodine-containing cleaners or quaternary ammonium compounds to clean or sterilise LMA Fastrach™. Such substances are absorbed by the device materials, resulting in exposure of the patient to unnecessary risk and possible deterioration of the device. Do not use a device that has been exposed to any of these substances.

Caution: Do not expose the valve (the white plastic piece protruding from the inflation balloon) to any cleaning solution as it may cause premature valve failure. If the inner valve is exposed to a cleaning solution, rinse thoroughly under warm flowing tap water, remove excess moisture, and allow it to dry. If moisture is noticed in the valve, tap against a towel to remove excess moisture.

Clean the LMA Fastrach™ using a small soft bristle brush (approximately 17mm in diameter). Gently insert the brush through the EEB bars into the airway tube, taking care not to damage the bars. Ensure the whole interior of the metal tube is thoroughly cleaned.

Thoroughly rinse the device in warm flowing tap water to remove cleaning residues. Carefully inspect the device to ensure that all visible foreign matter has been removed.

Repeat the above as necessary.

Warning: Failure to properly clean, rinse and dry a device may result in retention of potentially hazardous residues or inadequate sterilisation.

STERILISATIONS:

Immediately prior to steam autoclaving, deflate the cuff completely. Ensure both the syringe (used to deflate the cuff) and the valve are dry.

Caution: Any air or moisture left in the cuff will expand at the high temperatures and low pressures of the autoclave, causing irreparable damage (herniation and/or rupture) to the cuff and/or inflation balloon.

To avoid damage to the valve, do not use excessive force when inserting the syringe into the valve port. Remove the syringe from the valve port after deflation.

If a deflated mask immediately and spontaneously reinflates after the syringe has been removed, do not autoclave or re-use the mask. This indicates the presence of a defective device. It is normal, however, for the device to re-inflate slowly over a period of several hours as the silicone rubber material is permeable to gas.

Steam autoclave the device following the recommendations of the institution or the autoclave manufacturer. All steam autoclave cycles typically used for porous items are acceptable for sterilization of the LMA™ airway, provided that the maximum autoclave temperature does not exceed 137°C or 278.6°F. One steam sterilization cycle that is suitable for reusable device is to expose the device to steam at 134°C with a hold time of at least 10 minutes.

Caution: The integrity of the reusable LMA™ airway materials may be adversely affected by exceeding sterilization temperatures of 137°C or 278.6°F.

Autoclaves vary in design and performance characteristics. Cycle parameters should therefore always be verified against the autoclave manufacturer’s written instructions for the specific autoclave and load configuration being used.

Healthcare personnel are responsible for adhering to the appropriate sterilization processes which have
been specified. Failure to do so may invalidate the sterilization process of the healthcare facility. After autoclaving, allow the device to cool to room temperature before use.

**SYMBOL DEFINITION:**

- Manufacturer
- Consult IFU on this website: www.LMACO.com
- Air inflation volume
- Patient weight
- Read Instructions before use
- Not made with natural rubber latex
- Fragile, handle with care
- Keep away from sunlight
- Keep dry
- This way up
- Product Code
- Lot Number
- CE Mark
- Serial Number
- Do not reuse more than 40 times
- Non-sterile
- MR Unsafe

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The information given in this document is correct at the time of going to press. The manufacturer reserves the right to improve or modify the products without prior notification.

**Manufacturer’s Warranty:**

The LMA Fastrach™ is reusable and warranted against manufacturing defects for forty (40) uses or a period of one (1) year from date of purchase (whichever is the earlier), subject to certain conditions. The completed record card must accompany any product returned for evaluation.

Warranty is applicable only if purchased from an authorized distributor. TELEFLEX MEDICAL DISCLAIMS ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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