

Al Mustaqbal University

College of Health and Medical Techniques

Department of Anesthesia

Practical Anesthesia

Stage Two

Lecture 1

Facemasks



By Lectures

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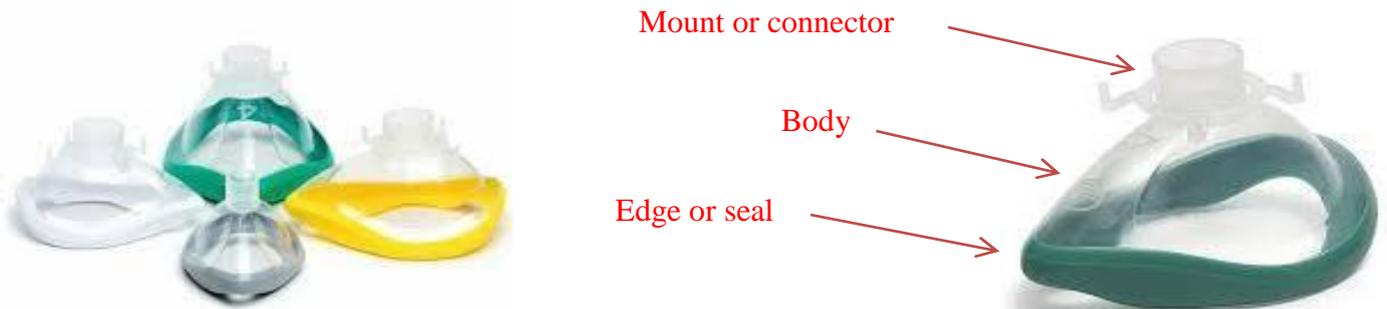
BSc. Anesthesia & Intensive Care

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Facemasks

The Face mask was basically invented to administer air(with O₂) and anesthesia. They are made up of such **a shape that they will comfortably fit over the patient's nose and mouth with minimal leak and without undue force.** Several mask designs are available. **Transparent masks allow observation** of exhaled humidified gas and immediate recognition of vomitus.

It consists of three parts: (1) the body, (2) the edge and (3) the mount.



Techniques for face masks application

Effective mask ventilation requires **both a gastight mask fit and a patent airway.**

➤ One-Hand Technique

In one-hand technique, the thumb and index finger of the left hand are placed on the mask body to press mask downward. The remaining three fingers are placed on the mandible with little finger below the angle of the mandible (to lift the mandible for proper fitting) **avoiding the soft tissue.**



➤ Two-Hands Technique

Two-hands method **is used for difficult ventilation**. The thumbs and index fingers are placed on either side of the mask body. Remaining fingers of both the hands are placed on either side under the mandible



Difficult Face Mask Ventilation



Bag and mask ventilation

Bag and mask ventilation (BMV) is the first step in airway management in most situations.

If the airway is patent, squeezing the bag will result in the rise of the chest.

If ventilation is ineffective (no sign of chest rising, no end-tidal CO₂ detected, no mist in the clear mask), oral or nasal airways can be placed to relieve airway obstruction.



Advantages of Face Masks

- Minimal occurrence of sore throat
- Less anesthetic depth than using a supraglottic device or endotracheal tube
- Economical method to manage the airway for short duration.

Disadvantages of Face Masks

- Mask holding keeps one person occupied all the time
- Considering the leak around the mask in case of ill-fitting mask, higher fresh gas flows are often needed
- Mask ventilation cannot be used for long duration as it is tiresome to continuously hold the mask
- It is difficult to maintain airway with mask and requires lot of manipulations. In such cases laryngeal mask airway is a good option

COMPLICATIONS

- Skin Allergy
- Nerve Injury
- Gastric Inflation
- Eye Injury and Skin Necrosis
- Cervical Spine Movement
- Environmental Pollution
- User Fatigue
- Jaw Pain

