HEALTHEAST MEDICAL TRANSPORTATION MEDICAL OPERATIONS MANUAL

7F2 DIRECT LARYNGOSCOPY

PATIENT CARE GOALS

• To secure the airway of the patient with inadequate breathing or potentially non-patent airway. A maximum of three attempts (two by any paramedic) while maintaining oxygen saturations greater than 92%.

PARAMEDIC

- 1. Don the appropriate personal protective equipment. Gloves and eye protection are the minimum required protection. Additionally, a facemask is required if there is a likelihood of encountering blood in the airway.
- 2. Prepare the following equipment:
 - Appropriately sized endotracheal tube¹ (generally a 7.0 or 7.5 for women, 7.5 or 8.0 for men)
 - Appropriately sized direct laryngoscope handle and blade
 - 10 mL syringe
 - Bougie or stylet
 - Appropriately sized supraglottic airway, in case of failed intubation
 - Water based lubricant
 - Suction
 - In-line capnography
- 3. Pre-oxygenate the patient.
- 4. Open the patient's mouth with the right hand using a scissor technique with two fingers.
- 5. Holding the laryngoscope in the left hand, carefully insert the blade between the teeth and along the right side of the tongue.
- 6. Once the blade has reached the back of the tongue, sweep the blade and tongue to the left.
- 7. Lift the blade upward and forward to expose the vocal cords. Do not change the angle of the

blade when lifting as this will cause a

fulcrum on the teeth.

- If using a curved Mac blade, the tip of the blade should be positioned in the vallecula (see Figure 1A, right).
- If using a straight Miller blade, the tip of the blade should pin the epiglottis to the back (see Figure 1B, right) of the tongue.

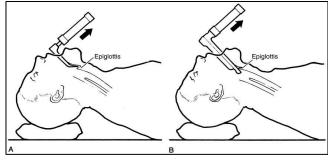


Figure 1

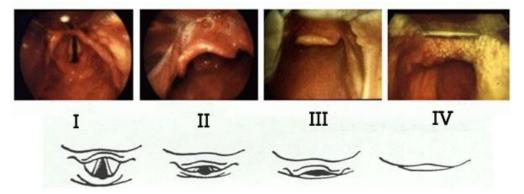
- 8. If using the bougie², hold it in the right hand with the angled end pointing upward.
 - Pass the bougie through the cords until the black line on the tube passes the vocal cords.

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- While still visualizing the cords, instruct a partner to hold the end of the bougie to stabilize it while the tube is threaded onto the bougie and then advanced through the cords.
- 9. If using the stylet².
 - Once the tube passed the cords, instruct partner to remove the stylet while continuing to insert the tube until the black line on the tube passes the vocal cords.
- 10. Inflate the cuff with 5-6 cc of air. 3
- 11. Ventilate the patient and confirm placement using **all** of the following methods:
 - Absence of epigastric sounds
 - Presence of bilateral lung sounds
 - Chest rise
 - Appropriate capnography wave form
- 12. Note the depth of the endotracheal tube at the patient's front teeth.
- 13. Secure the endotracheal tube using a commercial holder. Tape may be used to secure the tube only if a commercial holder is not available.

DOCUMENTATION KEY POINTS

- Rationale for direct laryngoscopy
- Preparation of patient and materials for procedure
- Use of bougie or stylet, size of ET tube, and size/type laryngoscope blade
- Grade view of the vocal cords



- Number of attempts and success of procedure including any complications encountered.
- Methods of confirmation of tube placement and depth of ET tube at patient's teeth.

NOTES

¹ Pediatric endotracheal tube sizes can be found in the Handtevy booklet.

² The use of a stylet or the bougie is required for all direct laryngoscopy attempts.

³ If a significant air leak exists after initial inflation, instill an additional 2 cc of air and recheck. Avoid over-inflation of the balloon.