

Airway Care

Jen-Tien Wung, M.D., FCCM

Neonatal Intensivist

Professor of Pediatrics

Children's Hospital Of New York

Columbia University Medical Center

New York



Endotracheal Intubation

Laryngoscopy

- Oxygen Supplement
- Oxyscope





Sedation for Intubation

Sodium pentothal (6mg/kg)

Propofol

Etomidate (suppress adrenal gland)

Versed (0.1mg/kg)

Fentanyl (2-5 mcg/kg)

Morphine (0.1mg/kg)

None

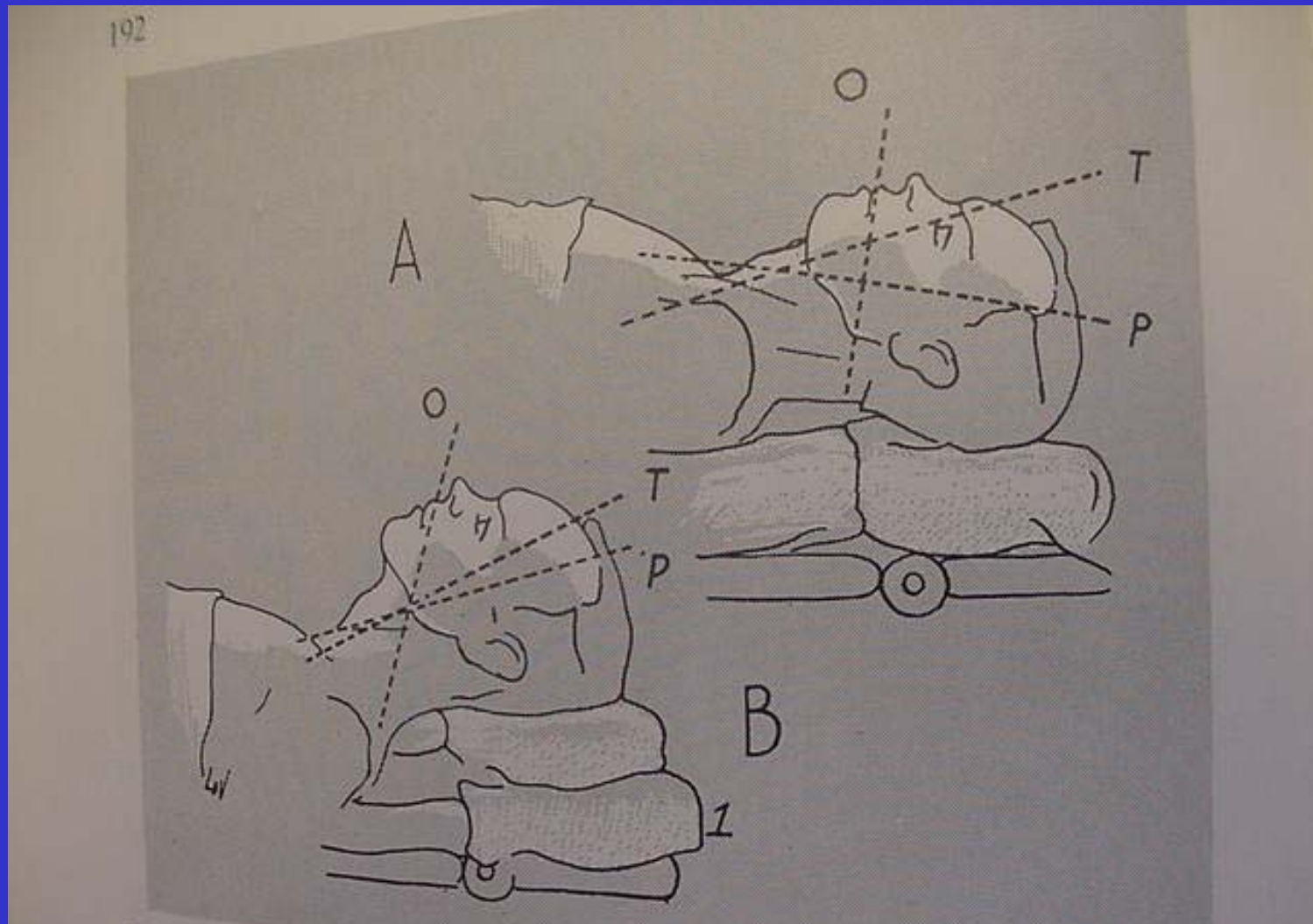


Endotracheal Intubation

- Head Position
- Laryngoscopy
- Nasotracheal vs Orotracheal Intubation

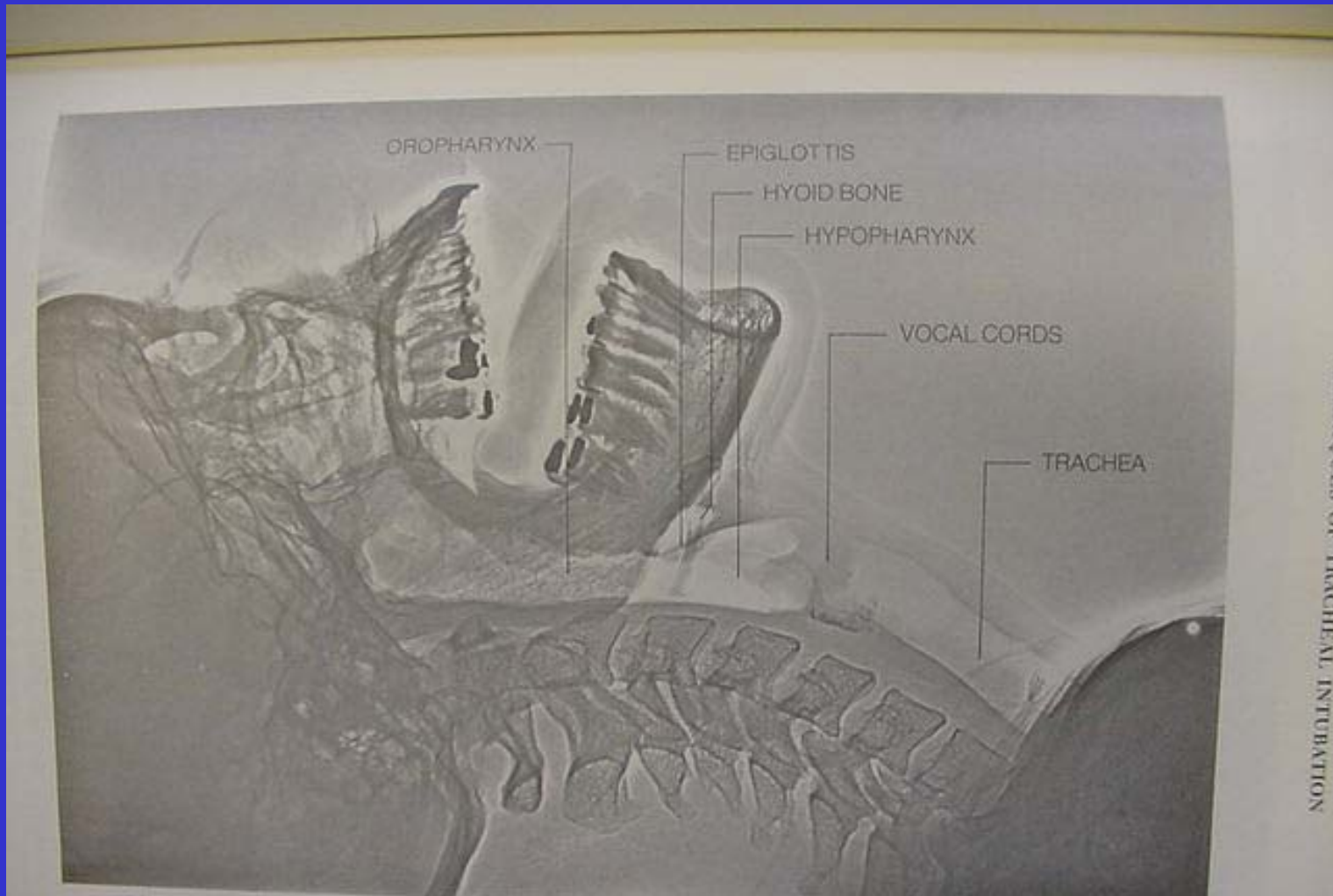
Endotracheal Intubation

Head Position



Endotracheal Intubation

Head Position



Endotracheal Intubation

Head Position



Figure 7-2 Xeroradiograph of a normal subject with head and neck flexed. Note the narrowing of the pharyngeal air column and marked angulation between the oral cavity and pharyngeal air column.

Endotracheal Intubation

Head Position



Figure 7-1 Xeroradiograph of a normal subject with head and neck extended. Note the marked angulation between the tracheal segments.

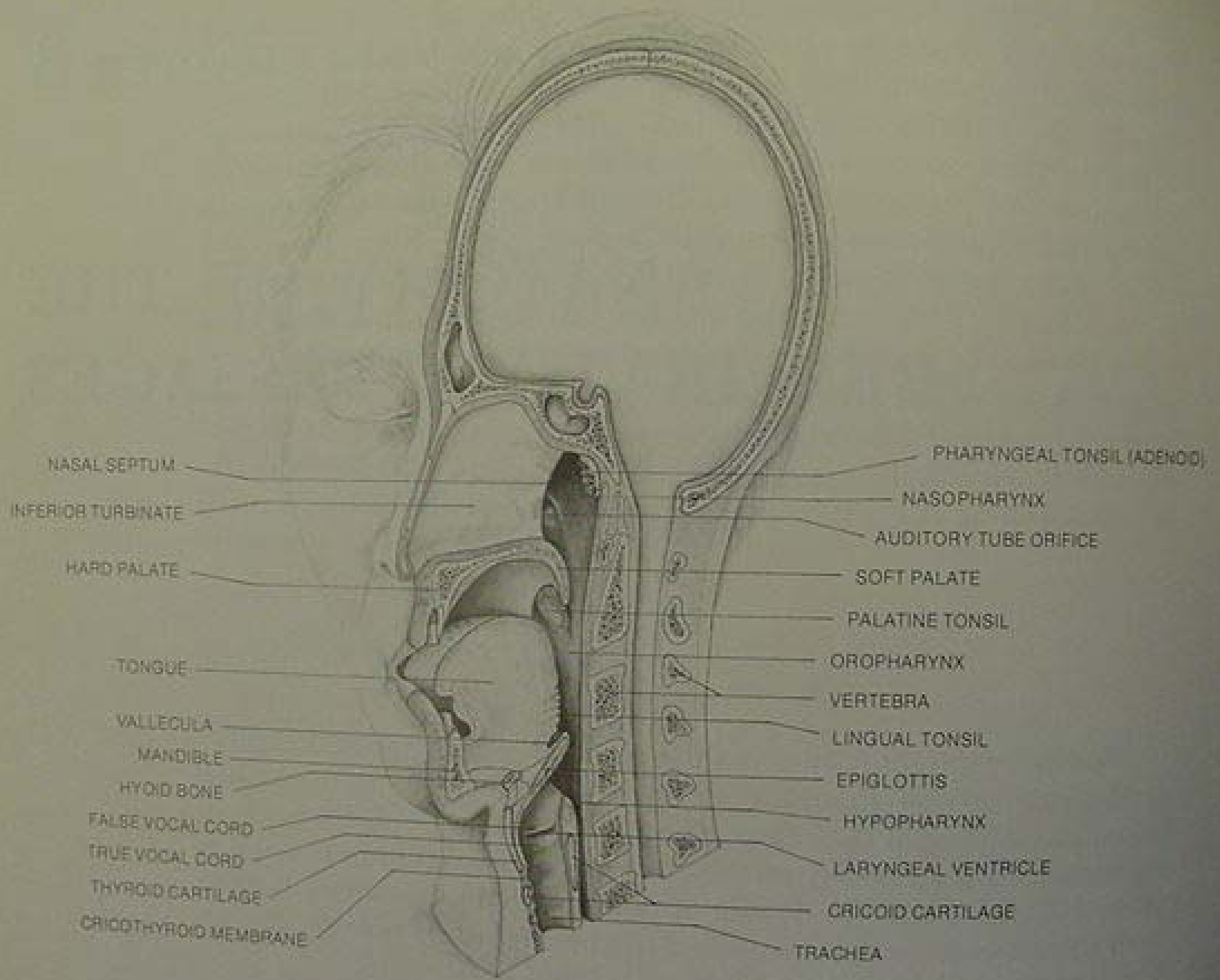


Figure 3-1 Sagittal section of the head and neck

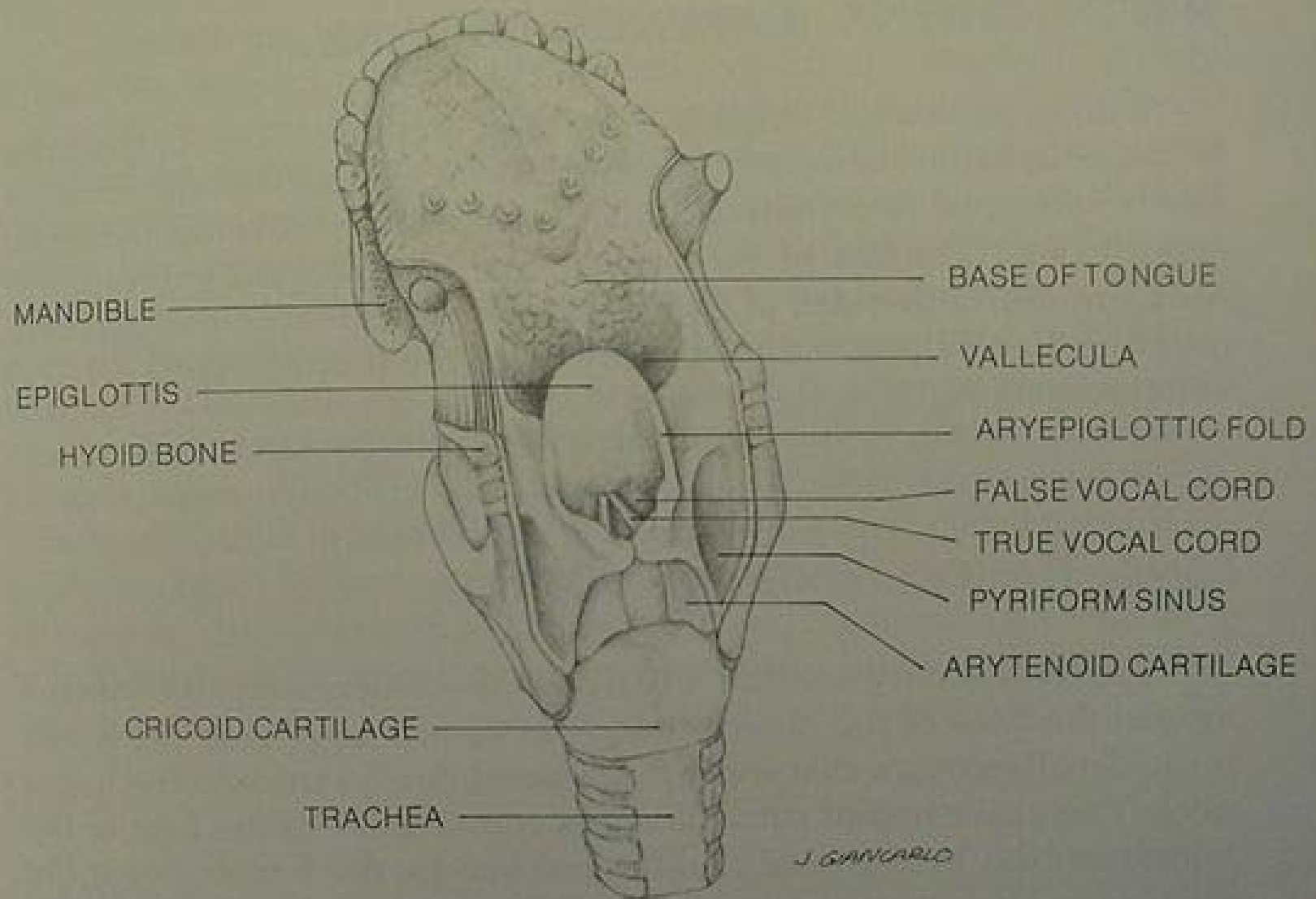
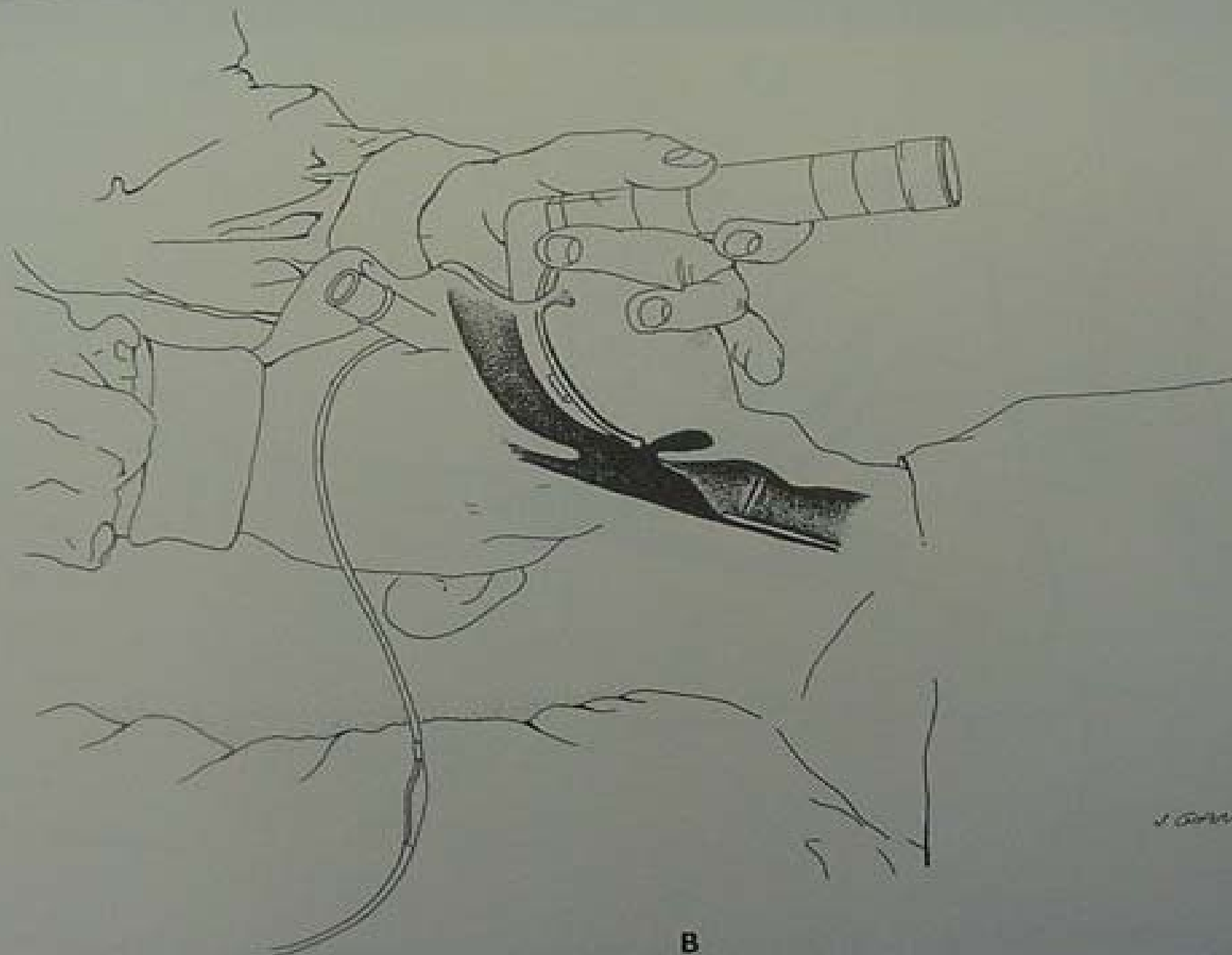


Figure 3-2 Posterolateral view of tongue, hypopharynx, larynx, and trachea.

necessitates emergency intubation of the trachea followed by ton-



Figure 7-4 Technique of orotracheal intubation. A. Laryngoscope blade is inserted in



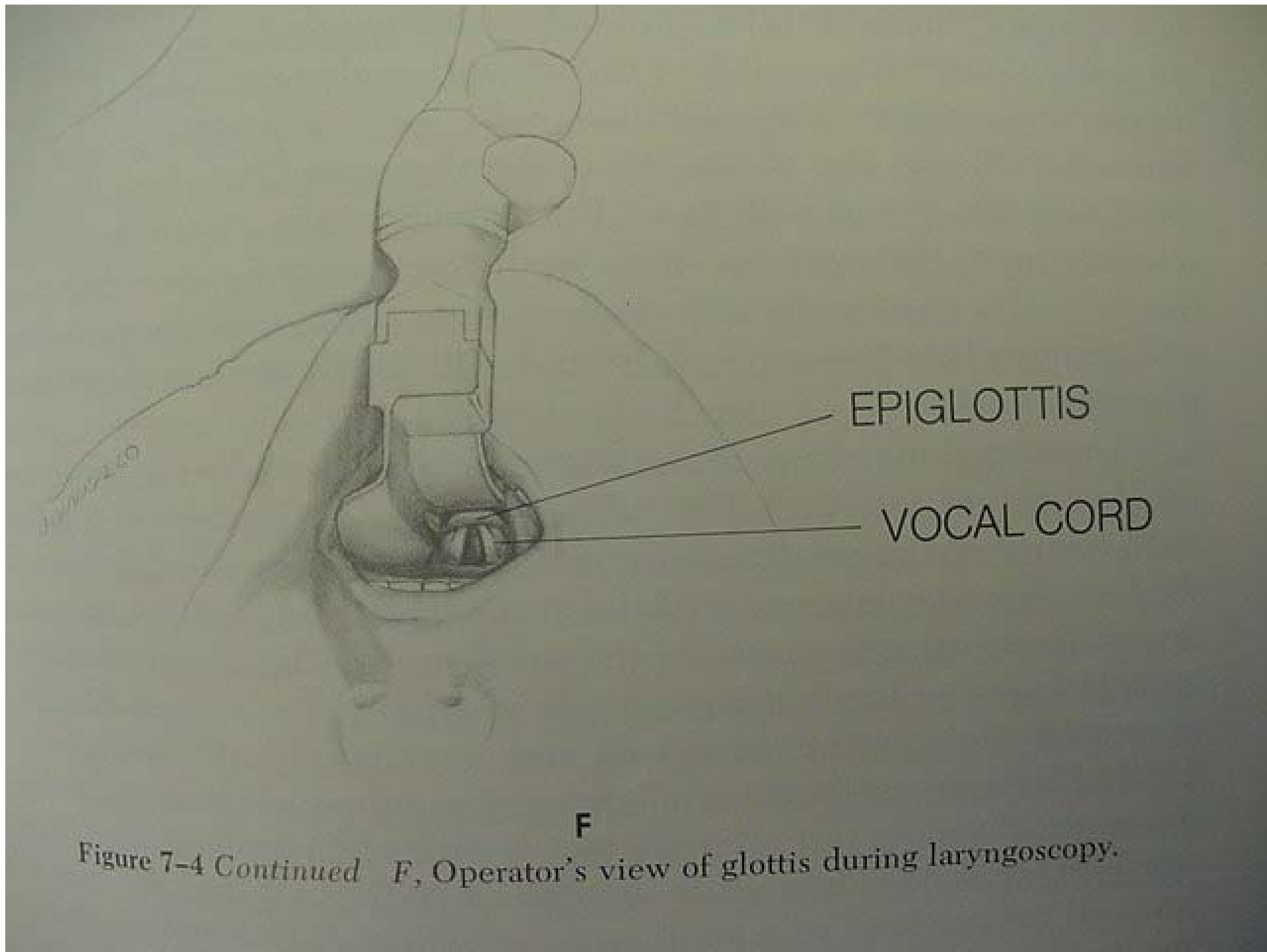
B

Figure 7-4 Continued B. Blade is advanced into oropharynx and laryngoscope is lifted to expose the epiglottis.



V. GIANCANELO

Figure 7-4 Continued C, Tip of blade is placed in vallecula, and laryngoscope is lifted further to expose glottis. The tube is inserted through the right side of the mouth.

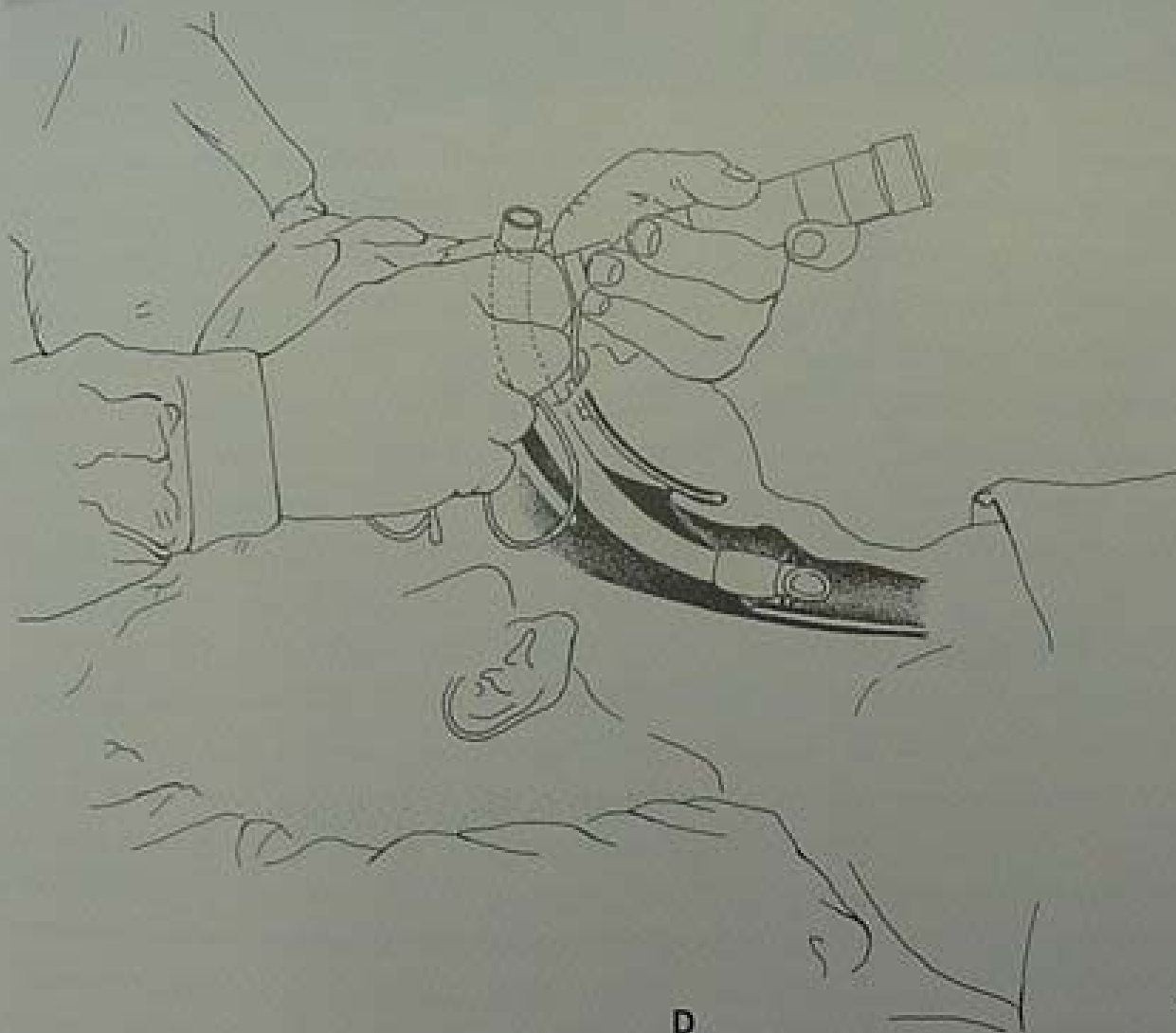


EPIGLOTTIS

VOCAL CORD

F

Figure 7-4 Continued F, Operator's view of glottis during laryngoscopy.



D
Figure 7-4 Continued D, Tube is advanced through vocal cords into trachea.
Illustration and legend continued on the following page

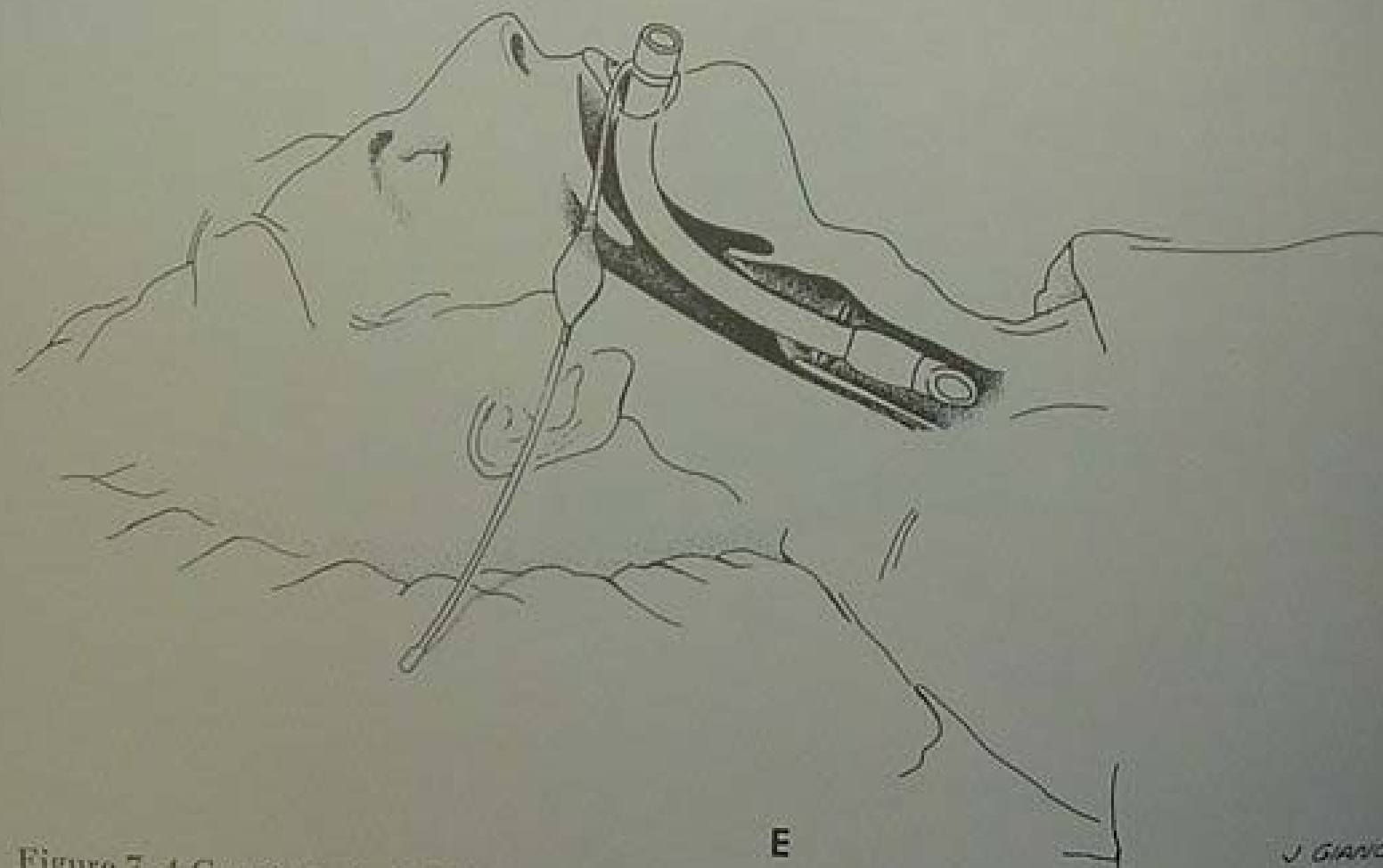


Figure 7-4 Continued E, Tube is positioned so that its cuff is below vocal cords, and laryngoscopy is removed.

Endotracheal Tube



Endotracheal Tube Size

- <1000 gm 2.5 mm I.D.
- 1000 – 2000 gm 3.0 mm I.D.
- >2000 gm 3.5mm I.D.

Endotracheal Tube Length

- Orotracheal Tube :
6 cm + BW (kg)
- Nasotracheal Tube:
8 cm for 1000 gmemie
10 cm for 2500 gm

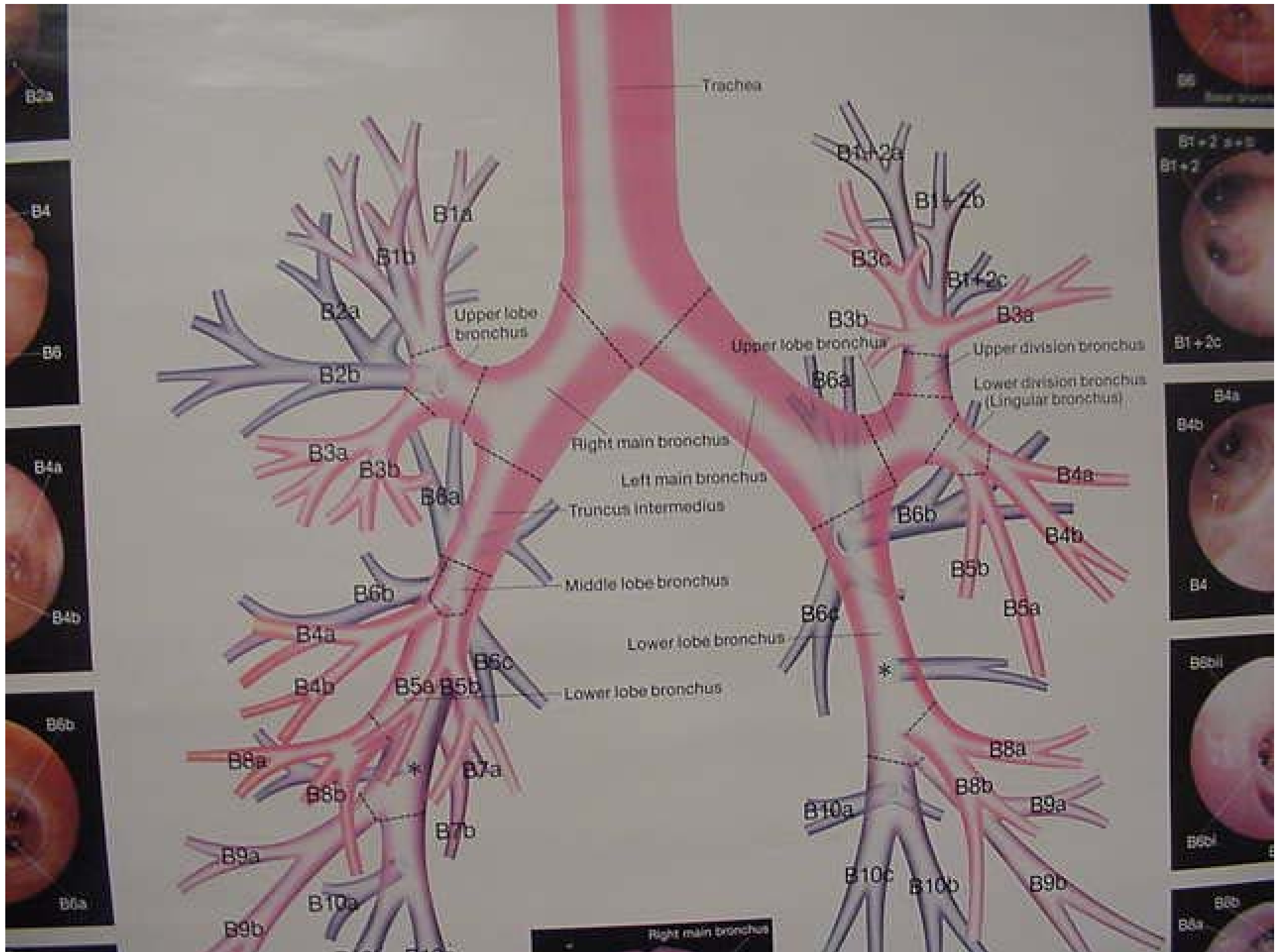
Crown Heel Length(cm)	Nasotracheal Tube Length (cm)
30	6.50
32	7.00
34	7.50
36	8.00
38	8.25
40	8.75
42	9.25
44	9.50
46	10.00
48	10.25
50	10.50
52	11.00
54	11.50
56	12.00
58	12.50

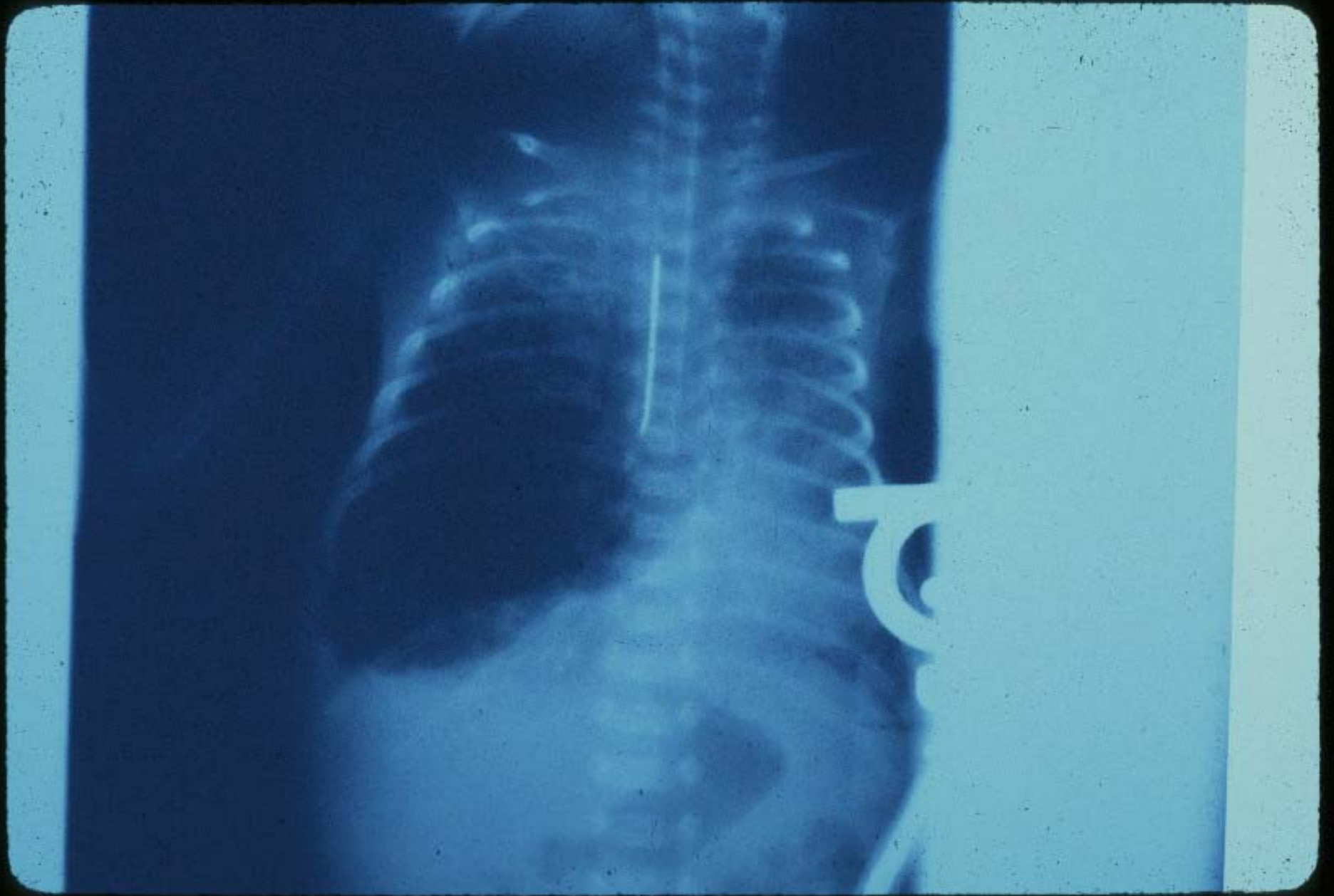
Endotracheal Tube

Position of Tip

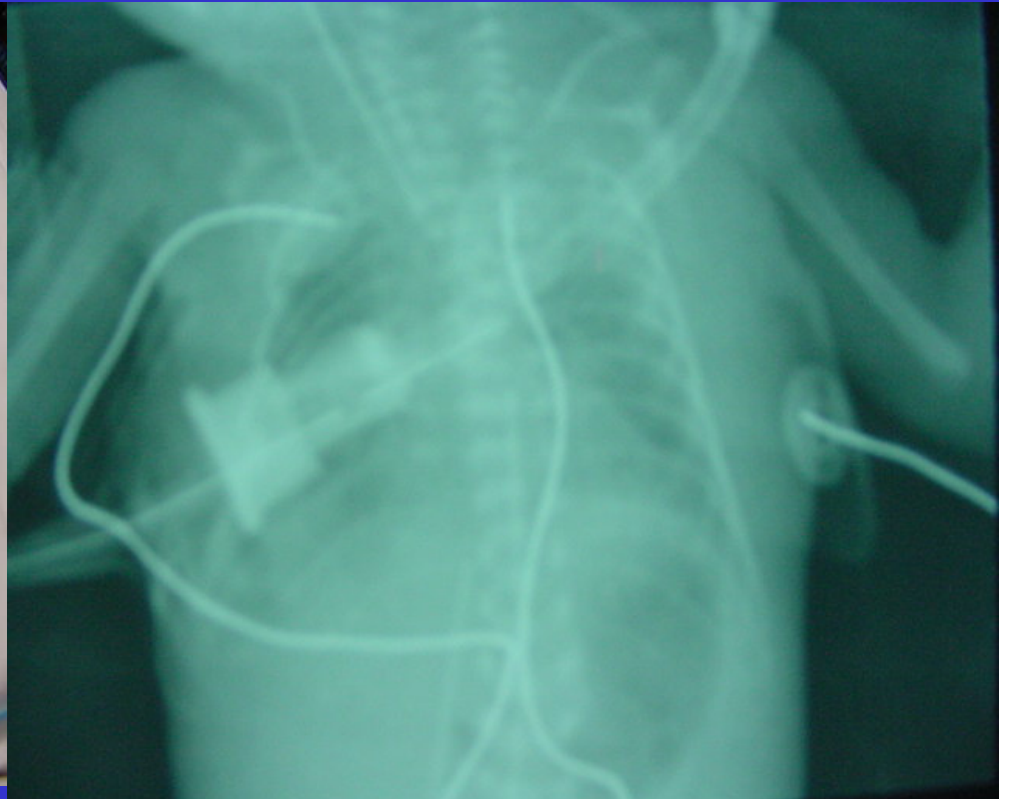
Chest X-ray (head in neutral position)

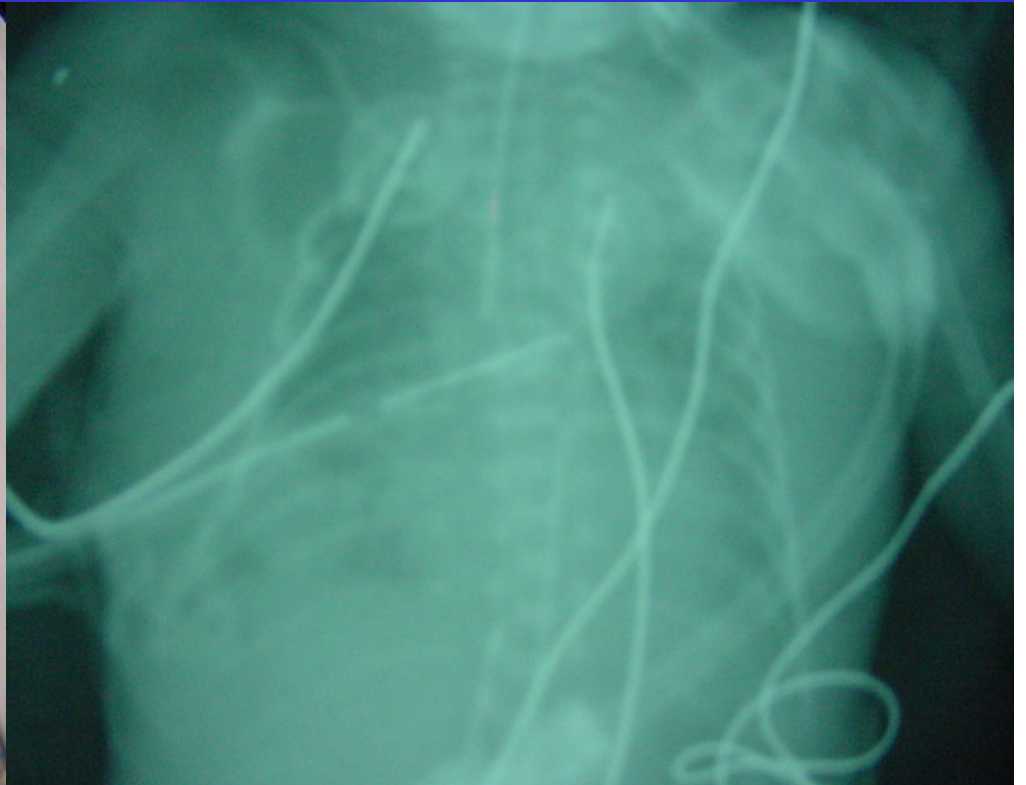
- < 1000 gmemie
 - 1 cm above carina
- >2000 gm
 - 2 cm above carina

















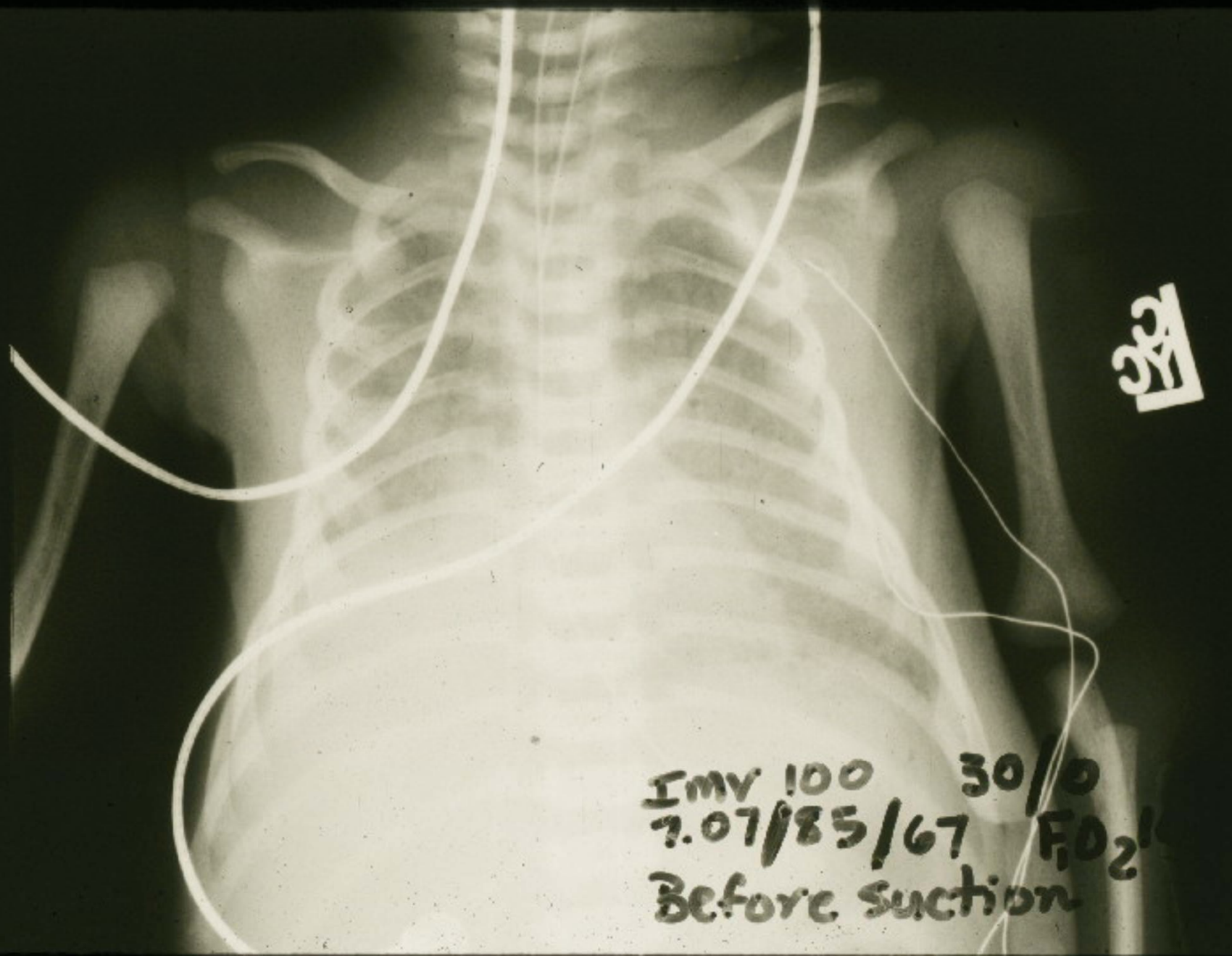
Endotracheal Intubation

Nasotracheal vs Orotracheal

- Better fixation
- Less inadvertant extubation
- Less tracheal irritation
- More comfortable
- Better oral hygiene

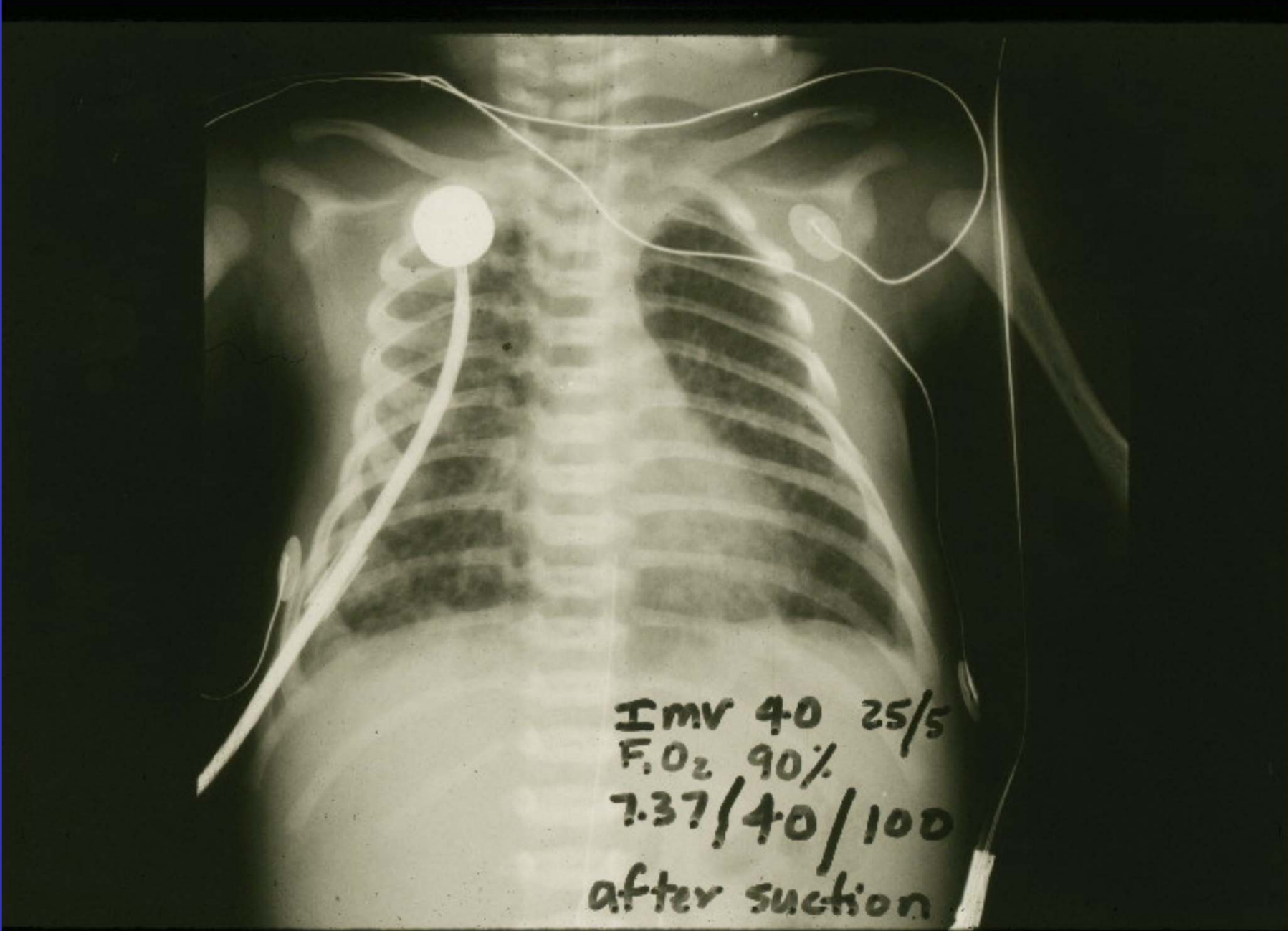
Endotracheal Tube

Suctioning



IMV 100 30/0
7.07/85/67 F, O2
Before suction

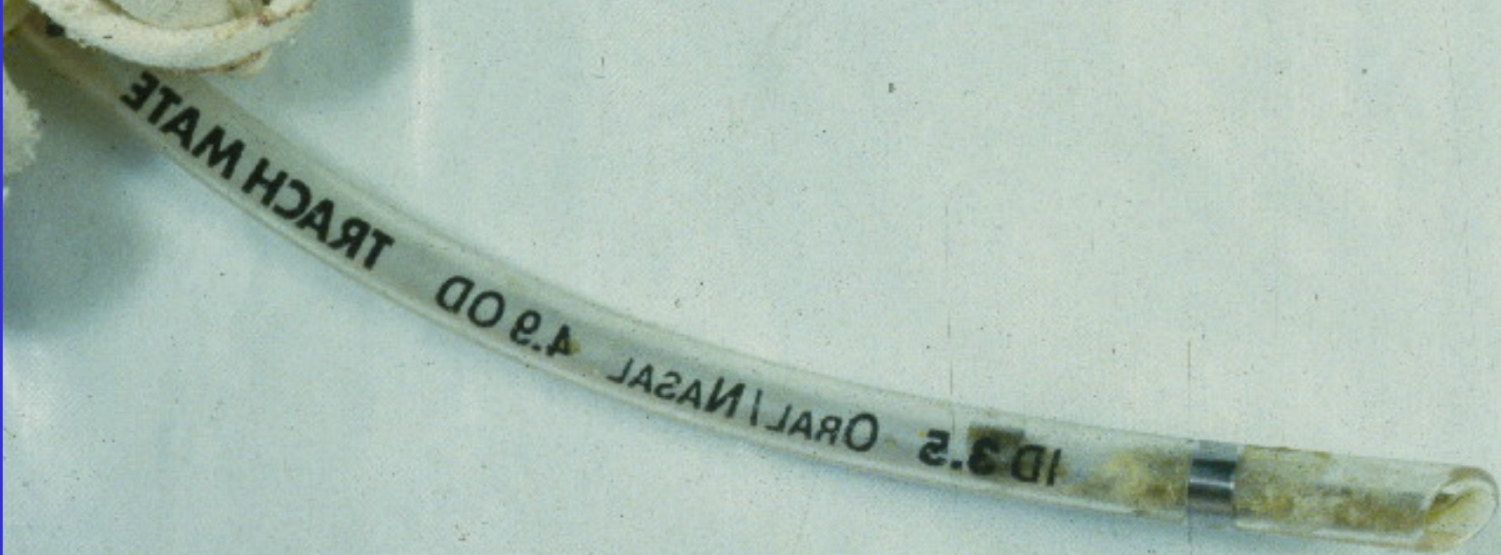
232



A black and white chest X-ray showing the ribcage and lungs. Two circular electrodes are attached to the chest wall, with wires extending upwards. A nasogastric tube is visible on the left side. Handwritten text in the lower right corner provides mechanical ventilation settings.

IMV 40 25/5
F.O₂ 90%
7.37/40/100
after suction

TRACH MATE
4.9 OD
ORAL/NASAL
ID 3.5





Endotracheal Tube Suctioning

Catheter size:

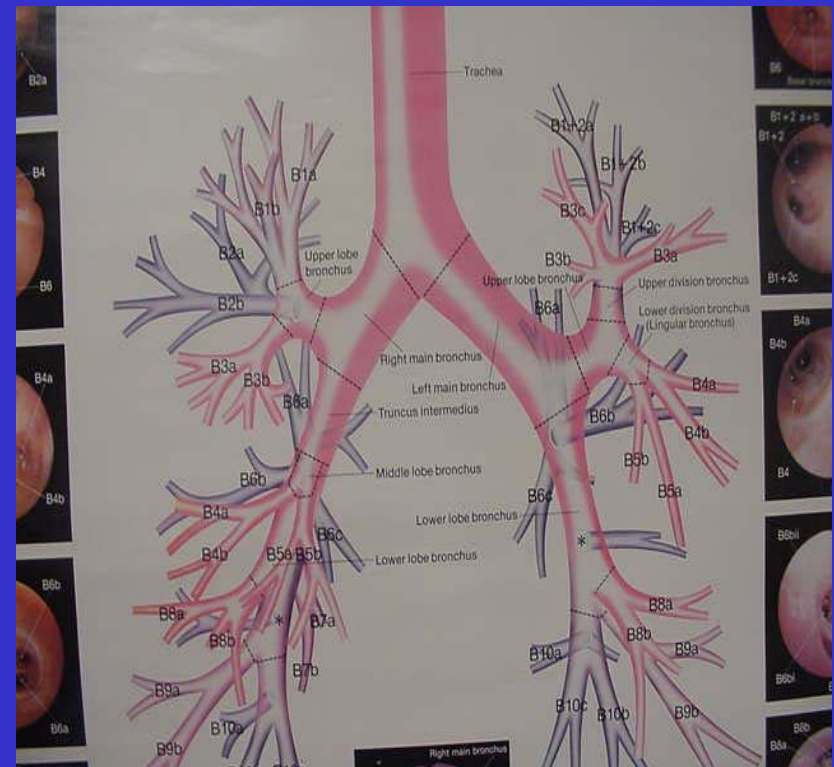
- 6.5 Fr. for 2.5 mm I.D. ET tube
- 8.0 Fr. for 3.0 & 3.5 I.D. ET tube

Endotracheal Tube

Suction length:

ET tube length (inside + outside)

- +3 cm:
for <1000 gm premie
- +4 cm:
for 1000 – 2000 gm
- +5 cm:
for >2000 gm



Endotracheal Tube Suctioning



Endotracheal Tube Suctioning

Time:

As short as possible

Endotracheal Tube Suctioning

Pressure:

-100 to -200 cmH₂O
(-80 to -150 mmHg)

1mmHg = 1.36 cmH₂O

Endotracheal Tube Suctioning

Frequency:

Q 2-4 hr & prn

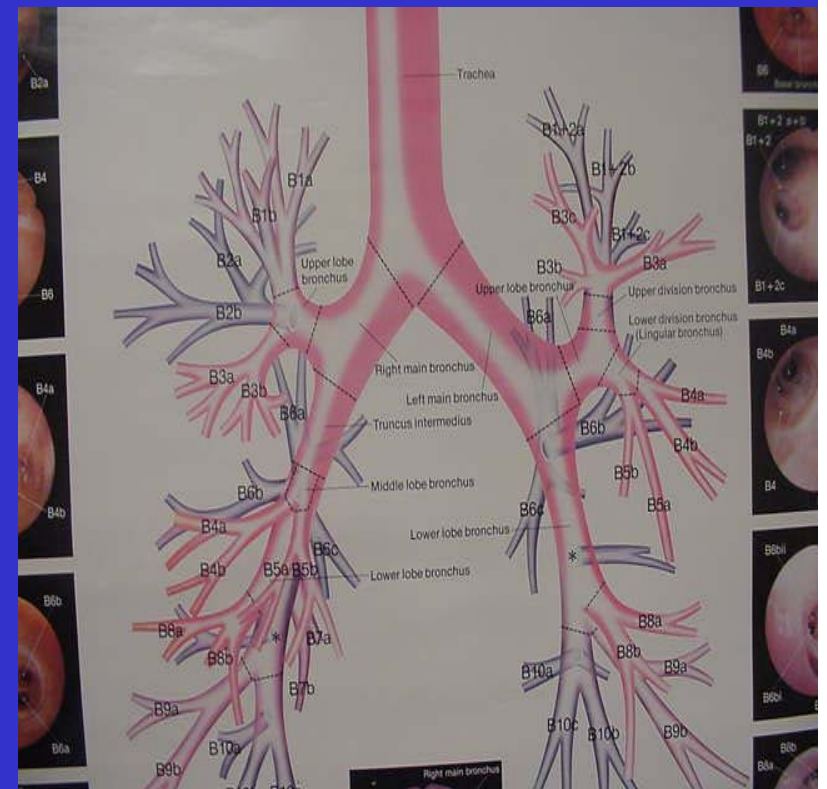
Endotracheal Tube Suctioning

Lubricate catheter with
sterile water or saline if necessary

Endotracheal Tube Suctioning

Head position:

- Turn to **left side** for suction of **right main-stem bronchus**
- Turn to **right side** for suction of **left main-stem bronchus**



Name: _____

Length(C-H): _____

Depth of suction: ___ cm. = NTT length
(___ cm. Inside + ___ cm. Outside) + 3 to
5cm. (3 cm for 1000 gm premie and 5
cm. for term infant)

NTT size: _____

Nurse signature: _____

Date: _____

Chest Physical Therapy

- Percussion
- Vibration



Changing Chest Position

Mechanical Ventilation

Extubation to Nasal CPAP

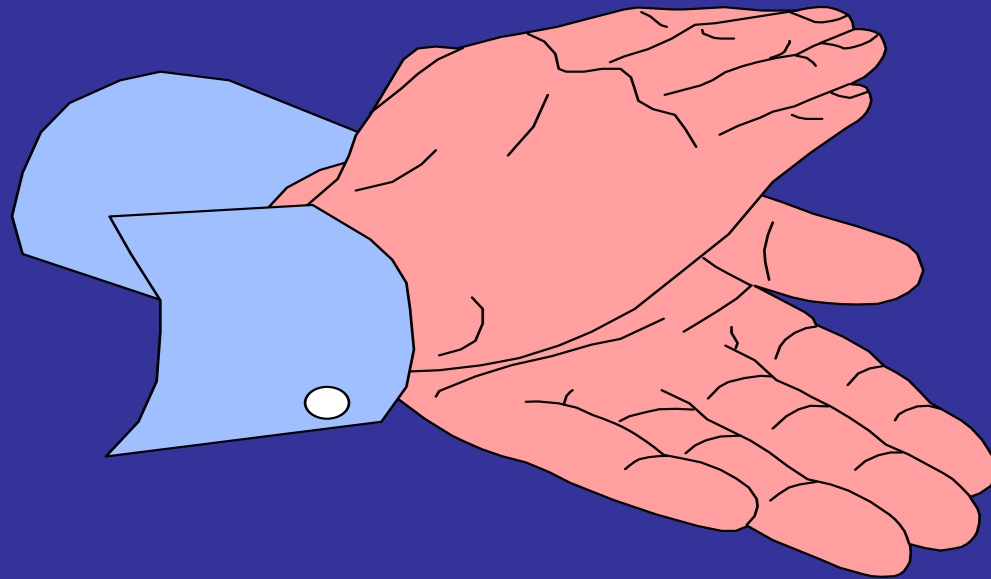
When :

- Condition is improved and stable
- IMV rate $\leq 20/\text{min}$
- $\text{FiO}_2 \leq 40\%$
- Breathing spontaneously & active
- Sometimes, Flip-flopped PaCO_2 due to ET tube obstruction from retention of secretions or tube bevel against tracheal wall, otherwise, patient is active.

Sequence of Steps for Extubation of Very-Low-Birth-Weight Infants

- Endotracheal tube Suctioning
- Direct laryngoscopy
- Paint larynx with vaponephrine
- Place on Nasal CPAP
- Prophylactic caffeine is not routine

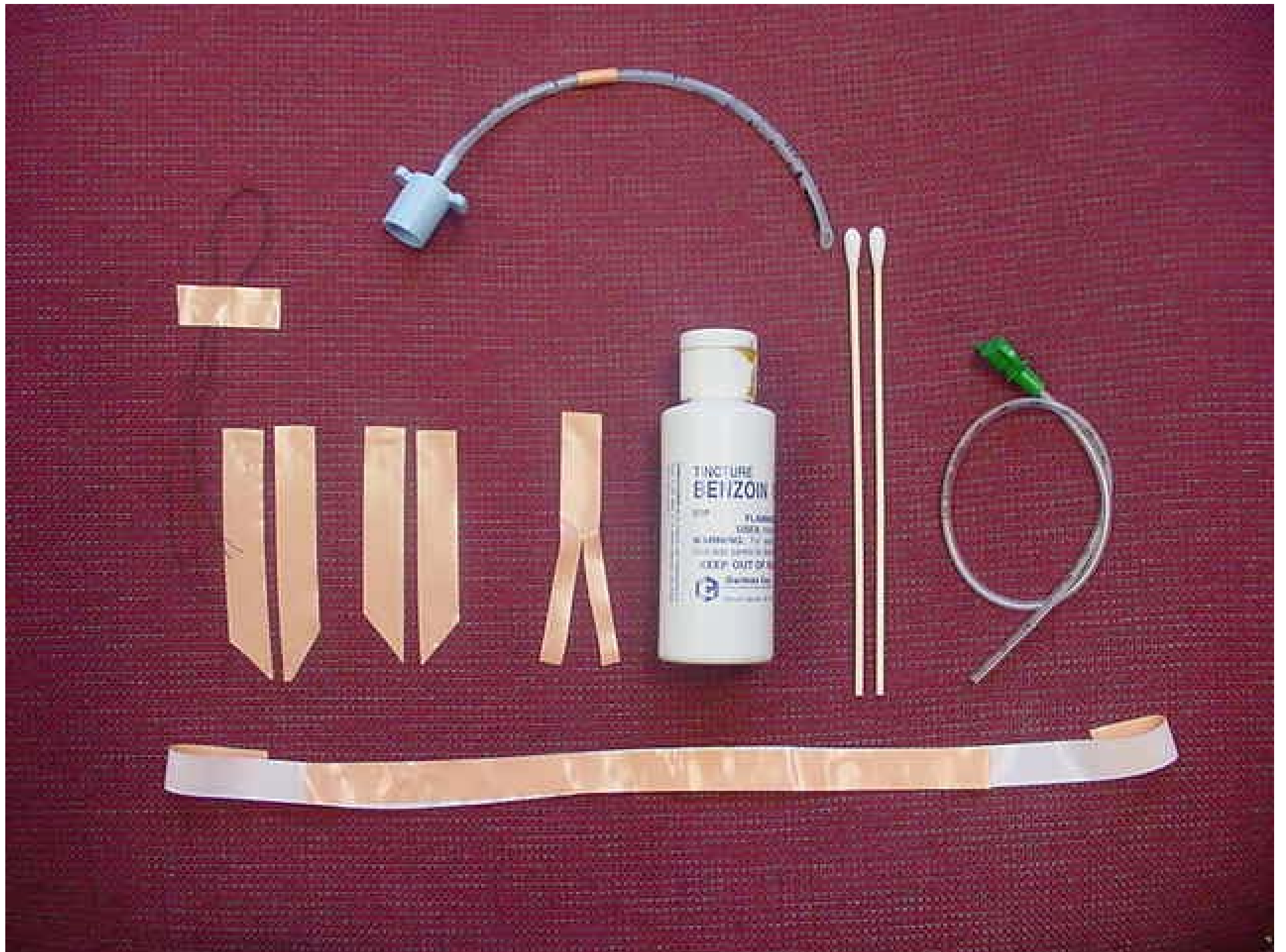
THANKS FOR YOUR ATTENTION!



Secure

Nasotracheal

Tube







**TINCTURE
BENZOIN**

USP

FLAMMABLE

USES: Internal

WARNING: For external use only
(See side panels for directions)

KEEP OUT OF REACH OF CHILDREN



Geritrex Corp.

Mount Vernon, NY

Geritrex Tincture of Benzoin is a prescription drug. It is intended for use only as directed. It is not intended for use in children. It is not intended for use in pregnant women. It is not intended for use in nursing mothers. It is not intended for use in patients with known hypersensitivity to benzoin resin. It is not intended for use in patients with known hypersensitivity to any of the ingredients. It is not intended for use in patients with known hypersensitivity to any of the excipients. It is not intended for use in patients with known hypersensitivity to any of the preservatives. It is not intended for use in patients with known hypersensitivity to any of the dyes. It is not intended for use in patients with known hypersensitivity to any of the flavors. It is not intended for use in patients with known hypersensitivity to any of the colors. It is not intended for use in patients with known hypersensitivity to any of the fragrances. It is not intended for use in patients with known hypersensitivity to any of the other ingredients. It is not intended for use in patients with known hypersensitivity to any of the other excipients. It is not intended for use in patients with known hypersensitivity to any of the other preservatives. It is not intended for use in patients with known hypersensitivity to any of the other dyes. It is not intended for use in patients with known hypersensitivity to any of the other flavors. It is not intended for use in patients with known hypersensitivity to any of the other colors. It is not intended for use in patients with known hypersensitivity to any of the other fragrances. It is not intended for use in patients with known hypersensitivity to any of the other ingredients. It is not intended for use in patients with known hypersensitivity to any of the other excipients. It is not intended for use in patients with known hypersensitivity to any of the other preservatives. It is not intended for use in patients with known hypersensitivity to any of the other dyes. It is not intended for use in patients with known hypersensitivity to any of the other flavors. It is not intended for use in patients with known hypersensitivity to any of the other colors. It is not intended for use in patients with known hypersensitivity to any of the other fragrances.



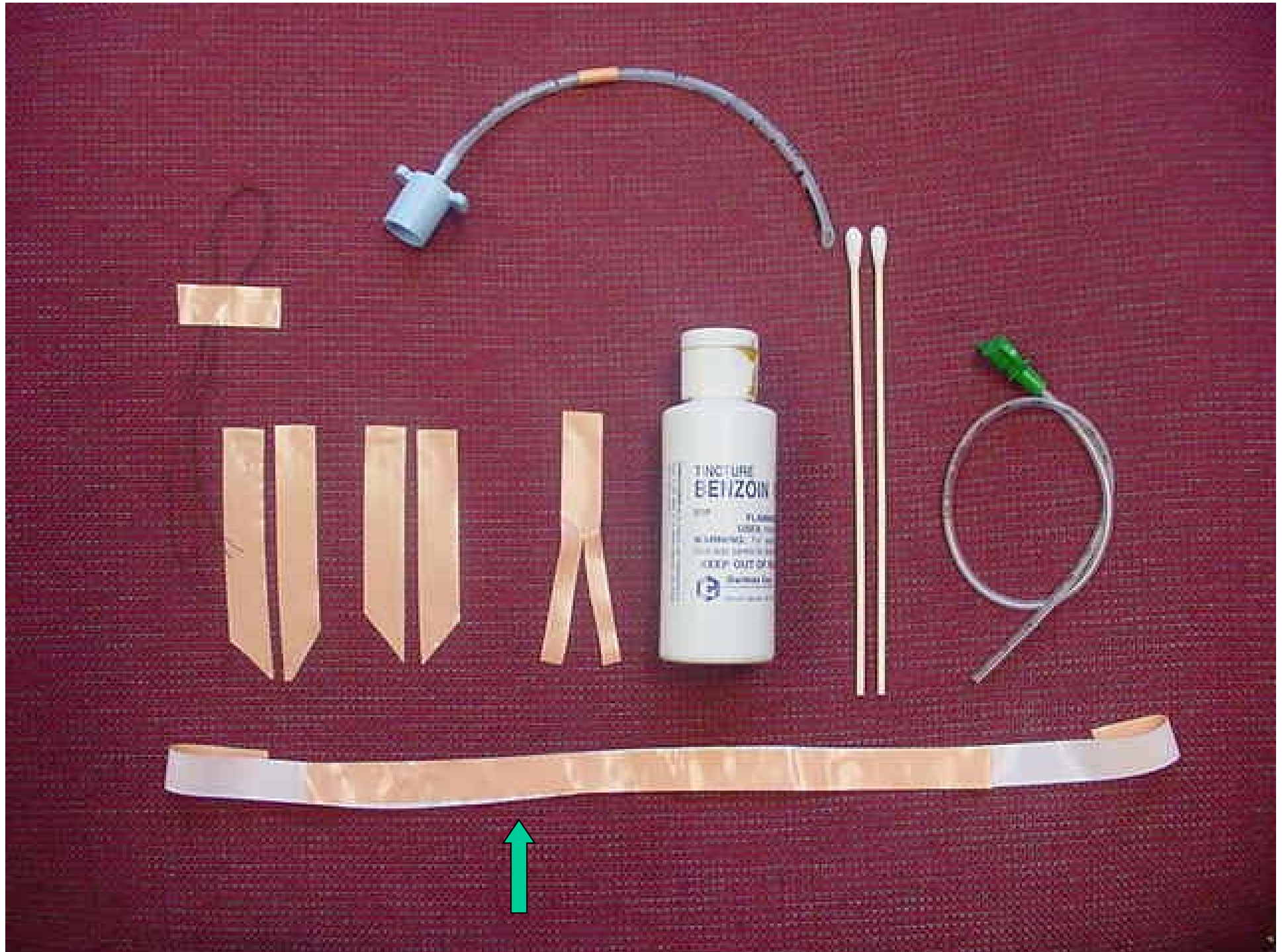










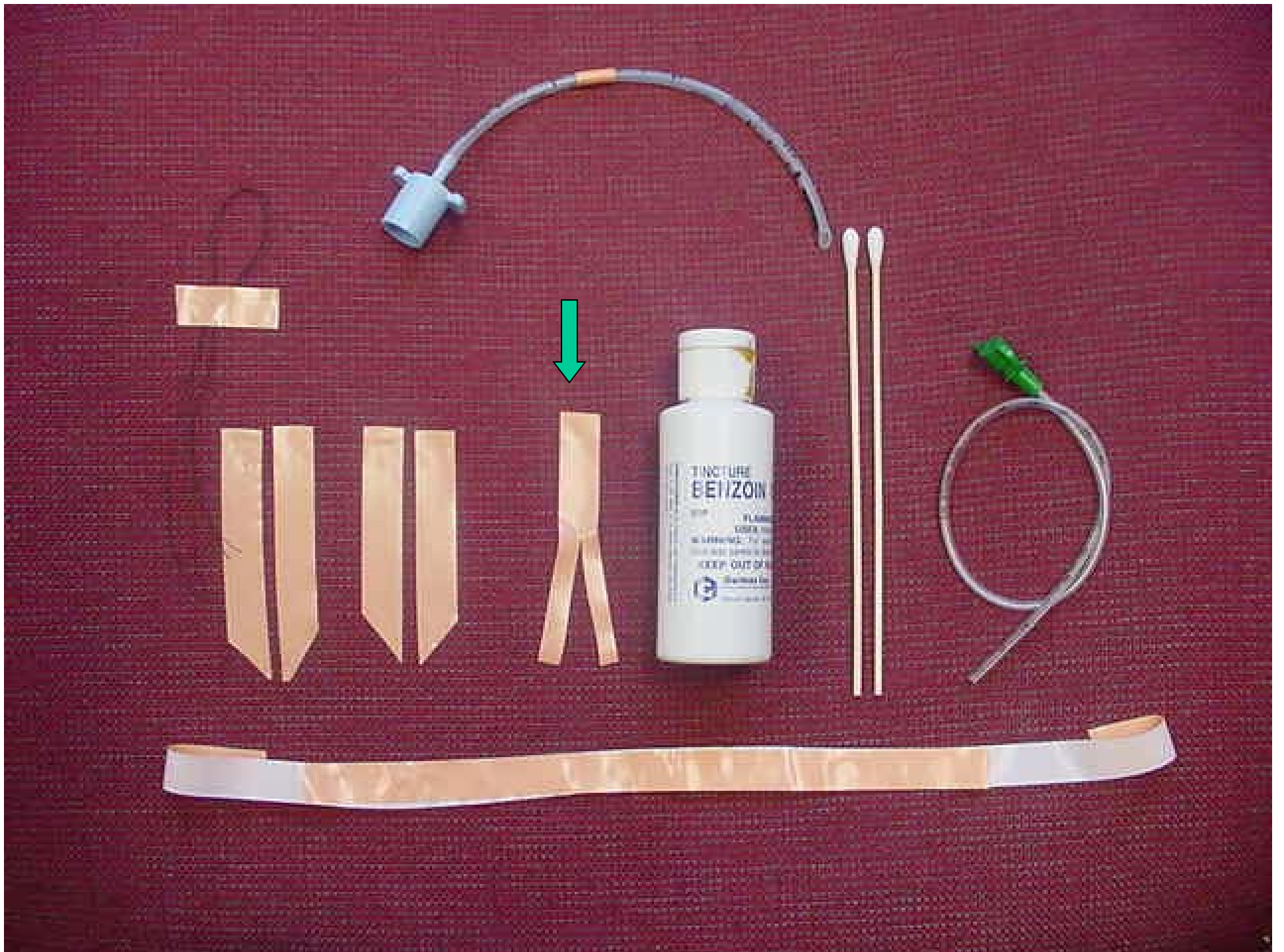








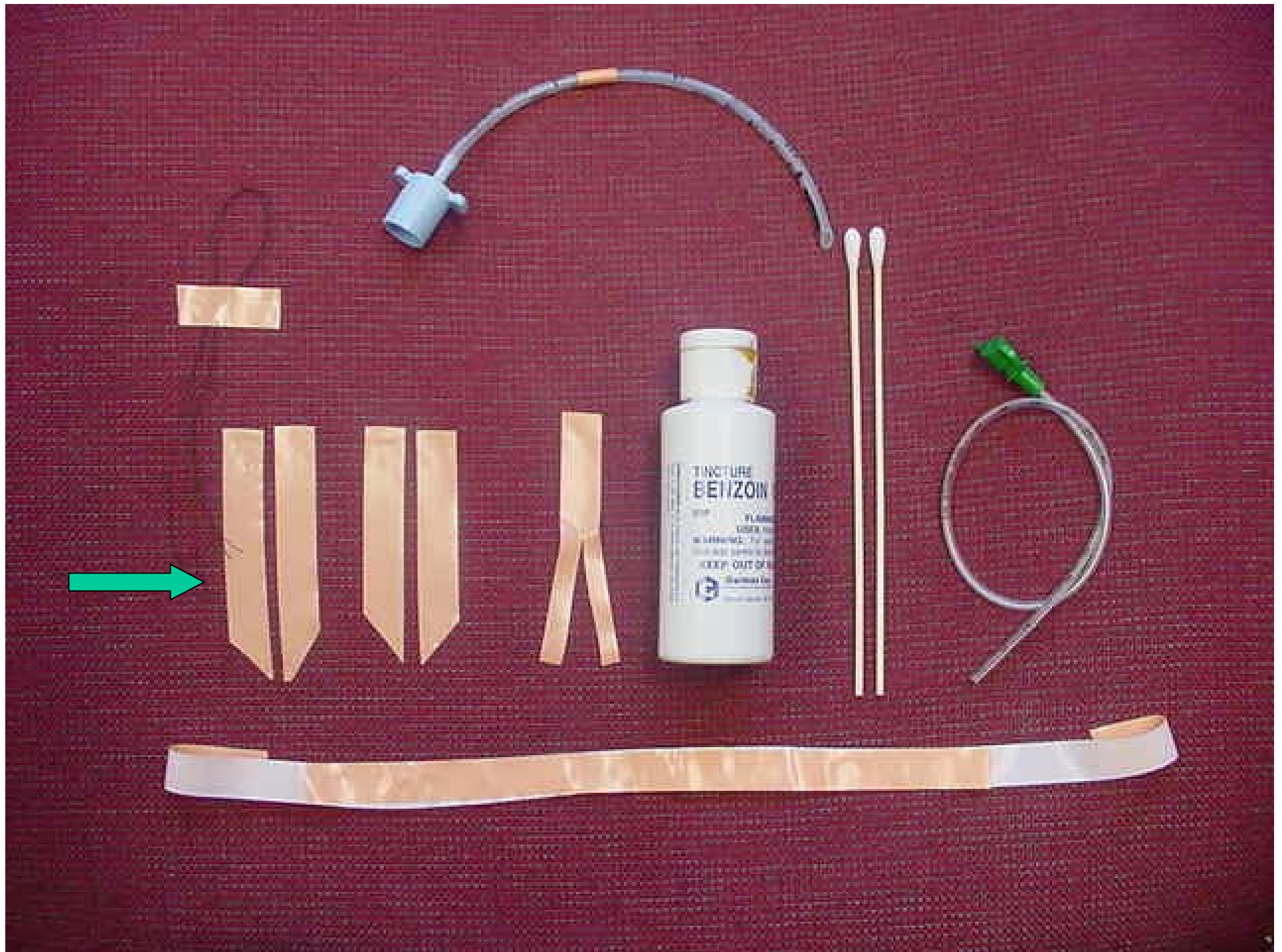




















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