

Percutaneous Transtracheal Jet Insufflation	Possible Points	Points Awarded
Hyperventilates using BVM with 100% oxygen	3	
Sets up equipment.	3	
Uses body substance isolation precautions.	2	
Positions patient for procedure with due consideration for cervical spine injury.	1	
Identifies proper anatomical site for needle insertion.	4	
Prepares site with antiseptic solution.	3	
Performs puncture: -Verbalizes minimum catheter size of 14 gauge. (1 point) -Inserts needle caudally at 45 degree angle. (1 point) -Notes or verbalizes penetration of trachea. (1 point) -Ensures patency of airway by aspirating air into syringe. (1 point) -Advances catheter. (1 point) -Removes stylet. (1 point)	6	
Verbalizes control of hemorrhage at insertion site.	2	
Secures cannula to neck.	2	
Connects jet insufflator to catheter.	1	
Verbalizes connection of jet insufflator to 50 psi oxygen source.	1	
Ventilates using a 1:4 ventilation/exhalation ratio.	4	
Verbalizes monitoring of chest expansion to estimate adequacy of ventilation.	1	
Verbalizes limitations of technique (CO ₂ retention, inadequate tidal volume, temporary airway).	2	
Verbalizes proper technique of using 2 catheters (1 with stopcock valve) to improve passive exhalation.	4	
Properly disposes of stylet.	1	
TOTAL SCORE	40	

Critical Criteria

- _____ Failure to establish a patent airway within 2 minutes.
- _____ Failure to take body substance isolation precautions prior to puncture.
- _____ Contaminates equipment or site without appropriately correcting the situation.
- _____ Any improper technique resulting in failure to provide an adequate airway.
- _____ Inserts catheter in cephalad direction.
- _____ Failure to use 1:4 ventilation/exhalation ratio.
- _____ Failure to provide supplemental oxygen.
- _____ Failure to dispose of sharps in proper container.