



## Morning Breakout Sessions

### Tracheostomy Tubes

Examine each tracheostomy tube and answer the following questions:

1. Where is the size of the tracheostomy tube located on each tube?
2. What is the purpose of the cuff on the tracheostomy tube?
3. What does the abbreviation “TTS” mean?
4. How is the cuff filled in a TTS?
5. Which tracheostomy tube is fenestrated?
6. What is a potential complication of a fenestrated tracheostomy tube?
7. What are two of the differences with the new Shiley<sup>®</sup> Flex tracheostomy tube as compared to the legacy Shiley?

### Cuff Management

Perform the following activities with the tracheostomy tubes and T.O.M. models:

1. Use the syringe to inflate the cuff on the tracheostomy tube in the T.O.M. model and answer the following cuff management questions:
  - a. What are two methods that can be used to ensure proper cuff inflation?
  - b. Is palpating the pilot balloon the best way to assure proper cuff inflation? Why or why not?
2. Use the syringe to overinflate the cuff until there is increased pressure on the posterior tracheal wall and answer the following cuff management question:
  - a. What are two potential complications of overinflating the cuff?
3. Use the syringe to deflate the cuff slowly and fully.
4. Use the cuff manometer to inflate the cuff on the tracheostomy tube. Make adjustments until the pressure reads 20 cm H<sub>2</sub>O.
5. Use the syringe to slowly deflate the cuff on the tracheostomy tube and answer the following questions:
  - a. What impact would an increased space between the tracheostomy tube and the tracheal wall have on airflow through the upper airway?

### Passy Muir<sup>®</sup> Valves and Accessories

Perform the following activities with the Passy Muir Valves, accessories, and T.O.M. model:

1. What steps must be taken before placing a Passy Muir Valve?
2. Place the purple Passy Muir Valve (PMV<sup>®</sup> 2001) gently and correctly onto the tracheostomy tube hub.
  - a. Did you twist clockwise?
3. Place (snap) the Passy Muir oxygen adapter on the purple Passy Muir Valve (PMV<sup>®</sup> 2001).
  - a. Where would oxygen be delivered?
  - b. How much flow can be provided with the O<sub>2</sub> adapter?
4. Remove the O<sub>2</sub> oxygen adapter.
5. Gently and correctly remove the Passy Muir Valve.
  - a. Did you twist clockwise?

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## Morning Breakout Sessions (continued)

Use the chart to assist with identifying the Passy Muir<sup>®</sup> Valves and accessories in the cases while answering the following questions:

6. Can all Passy Muir Valves be used on a patient with a tracheostomy who is mechanically ventilated?
7. Which Passy Muir Valve is designed to be used with the Jackson Improved tracheostomy tube?
8. Which Valves can be used with the PMV<sup>®</sup> Secure-It<sup>®</sup>?
9. When would an airway protection filter be used?

1 PMV <sup>®</sup> 007 (Aqua Color™)		5 PMV <sup>®</sup> 2020 (clear)		9 PMV <sup>®</sup> Secure-It <sup>®</sup>	
2 PMV <sup>®</sup> 2000 (clear)		6 PMA <sup>®</sup> 2000 (oxygen adapter)		10 DB15™ (adapter)	
3 PMV <sup>®</sup> 005 (white)		7 PMV-AD1522™		11 DigiSil™ (Digital Occlusion adapter)	
4 PMV <sup>®</sup> 2001 (Purple Color™)		8 PMV-AD22™		12 PM-APF15™ (Airway Protection filter)	

10. Label the components of a tracheostomy tube on the image below:

