Therapist Multiple-Choice Examination
Detailed Content Outline

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## Therapist Multiple-Choice Examination

### Detailed Content Outline

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Therapist Multiple-Choice Examination
Detailed Content Outline

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1. Testing for tuberculosis

2. Laboratory tests, for example,
   - CBC
   - electrolytes
   - coagulation studies
   - sputum culture and sensitivities
   - cardiac biomarkers

3. Imaging studies

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Therapist Multiple-Choice Examination
Detailed Content Outline

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4. Bronchoscopy
   a. diagnostic
   b. therapeutic
5. Bronchoalveolar lavage (BAL)
6. Pulmonary function testing
7. Noninvasive monitoring, for example,
   - pulse oximetry
   - capnography
   - transcutaneous
8. Blood gas and/or hemoximetry (CO-oximetry)
9. ECG
10. Exhaled gas analysis, for example,
    - CO₂
    - CO
    - FENO
11. Hemodynamic monitoring
12. Sleep studies
13. Thoracentesis

II. TROUBLESHOOTING AND QUALITY CONTROL OF DEVICES,
    AND INFECTION CONTROL

A. Assemble / Troubleshoot Devices
   4. Medical gas delivery interfaces, for example,
      - mask
      - cannula
      - heated high-flow nasal cannula
   2. Long-term oxygen therapy
   3. Medical gas delivery, metering, and/or clinical analyzing devices, for example,
      - concentrator
      - liquid system
      - flowmeter
      - regulator
      - gas cylinder
      - blender
      - air compressor
      - gas analyzers
   4. CPAP / NPPV with patient interfaces
   5. Humidifiers
   6. Nebulizers
   7. Metered-dose inhalers, spacers, and valved holding chambers
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2. Adhering to disinfection policies and procedures
3. Proper handling of biohazardous materials

C. Perform Quality Control Procedures

1. Blood analyzers
2. Gas analyzers
3. Pulmonary function equipment for testing
   a. spirometry results
   b. lung volumes
   c. diffusing capacity (DLCO)
4. Mechanical ventilators
5. Noninvasive monitors

### III. INITIATION AND MODIFICATION OF INTERVENTIONS

#### A. Maintain a Patent Airway Including the Care of Artificial Airways

1. Proper positioning of a patient
2. Recognition of a difficult airway
3. Establishing and managing a patient’s airway
   a. nasopharyngeal airway
   b. oropharyngeal airway
   c. esophageal-tracheal tubes / supraglottic airways
   d. endotracheal tube
   e. tracheostomy tube
   f. laryngectomy tube
   g. speaking valves
   h. devices that assist with intubation, for example,
      • endotracheal tube exchanger
      • video laryngoscopy
4. Performing tracheostomy care
5. Exchanging artificial airways
6. Maintaining adequate humidification
7. Initiating protocols to prevent ventilator-associated infections
8. Performing extubation

#### B. Perform Airway Clearance and Lung Expansion Techniques

1. Postural drainage, percussion, or vibration
2. Suctioning, for example,
   • nasotracheal
   • oropharyngeal

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3. Mechanical devices, for example,  
   - high-frequency chest wall oscillation  
   - vibratory PEP  
   - intrapulmonary percussive ventilation  
   - insufflation / exsufflation

4. Assisted cough, for example,  
   - huff  
   - abdominal thrust

5. Hyperinflation therapy

6. Inspiratory muscle training

C. Support Oxygenation and Ventilation

1. Initiating and adjusting oxygen therapy

2. Minimizing hypoxemia, for example,  
   - patient positioning  
   - secretion removal

3. Initiating and adjusting mask or nasal CPAP

4. Initiating and adjusting mechanical ventilation settings  
   a. continuous mechanical ventilation  
   b. noninvasive ventilation  
   c. high-frequency ventilation  
   d. alarms

5. Recognizing and correcting patient-ventilator dyssynchrony

6. Utilizing ventilator graphics

7. Performing lung recruitment maneuvers

8. Liberating a patient from mechanical ventilation

D. Administer Medications and Specialty Gases

1. Aerosolized preparations  
   a. antimicrobials  
   b. pulmonary vasodilators  
   c. bronchodilators  
   d. mucolytics / proteolytics  
   e. steroids

2. Endotracheal instillation

3. Specialty gases, for example,  
   - heliox  
   - inhaled NO

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Ensure Modifications are Made to the Respiratory Care Plan

1. Treatment termination, for example,
   - life-threatening adverse event

2. Recommendations
   a. starting treatment based on patient response
   b. treatment of pneumothorax
   c. adjustment of fluid balance
   d. adjustment of electrolyte therapy
   e. insertion or change of artificial airway
   f. liberating from mechanical ventilation
   g. extubation
   h. discontinuing treatment based on patient response
   i. consultation from a physician specialist

3. Recommendations for changes
   a. patient position
   b. oxygen therapy
   c. humidification
   d. airway clearance
   e. hyperinflation
   f. mechanical ventilation

4. Recommendations for pharmacologic interventions
   a. bronchodilators
   b. anti-inflammatory drugs
   c. mucolytics and proteolytics
   d. aerosolized antibiotics
   e. inhaled pulmonary vasodilators
   f. cardiovascular
   g. antimicrobials
   h. sedatives and hypnotics
   i. analgesics
   j. narcotic antagonists
   k. benzodiazepine antagonists
   l. neuromuscular blocking agents
   m. diuretics
   n. surfactants
   o. changes to drug, dosage, administration frequency, mode, or concentration
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<td>8. Moderate (conscious) sedation</td>
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<td>• exercise</td>
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Therapist Multiple-Choice Examination
Detailed Content Outline

Items are linked to open cells.

<table>
<thead>
<tr>
<th>Cognitive Level</th>
<th>Ethics</th>
<th>Recall</th>
<th>Application</th>
<th>Analysis</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Pulmonary rehabilitation</td>
<td></td>
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<tr>
<td>5. Disease / condition management, for example,</td>
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<tr>
<td>• asthma</td>
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</tr>
<tr>
<td>• COPD</td>
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<td>• CF</td>
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<td>• tracheostomy care</td>
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<td>• ventilator dependent</td>
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Totals 3 33 66 41 140

Additional Specifications

<table>
<thead>
<tr>
<th>Patient Type</th>
<th>Target</th>
<th>Minimum</th>
<th>Maximum</th>
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<tbody>
<tr>
<td>Pediatric – 1 month to 17 years of age</td>
<td>4</td>
<td>3</td>
<td>8</td>
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<tr>
<td>Neonatal – birth to 1 month of age</td>
<td>3</td>
<td>2</td>
<td>5</td>
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<tr>
<td>Adult or General</td>
<td>balance</td>
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<td>Total</td>
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~ 12 ~
## Patient Conditions

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<thead>
<tr>
<th>General</th>
<th>Bariatric</th>
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<tbody>
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<td>Copd</td>
<td>Neonatal</td>
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<tr>
<td>Asthma</td>
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<td>Heart Failure</td>
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<td>Psychiatric</td>
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<td>Geriatric</td>
<td>Congenital Defects</td>
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<td>Cardiovascular</td>
<td>Cystic Fibrosis</td>
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<tr>
<td>Infectious Disease</td>
<td>Burn/Inhalation Injury</td>
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<tr>
<td>Pulmonary Vascular Disease</td>
<td>Lung Transplantation</td>
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<tr>
<td>Trauma</td>
<td>Apnea</td>
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<td>Immunocompromised Host</td>
<td>Interstitial Lung Disease</td>
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<td>Drug Overdose</td>
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<td>Rds</td>
<td>Traumatic Brain Injury (TBI)</td>
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<td>Pediatric</td>
<td>Sepsis</td>
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<td>Disorders of Prematurity</td>
<td>Lung Cancer</td>
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<tr>
<td>Pulmonary Embolism</td>
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<td>Shock</td>
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