HEALTHCARE STUDY GUIDE PULMONOLOGIST

YEAR 3 SPECIALTY PRACTICE

250 EXAM PREP QUESTIONS, WITH ANSWERS



LEARNERS I PRACTITIONERS I EDUCATORS

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UNITY CREST SOLUTIONS INC.

Who Is Healthcare Study Guide For

Healthcare Study Guide is a professional-grade study and review resource for healthcare workers across the United States and Canada. Whether you're preparing for a certification exam, re-entering the workforce, or transitioning into a new role or specialty, this guide is designed to help you test your knowledge, reinforce critical concepts, and build career confidence.

This guide can be used for exam preparation, knowledge review, and independent study. It is suitable for a wide range of professionals who need to refresh, refine, or benchmark their understanding of core healthcare topics.

It is not a substitute for accredited coursework or formal clinical training, and does not replace regulatory, licensing, or board-approved materials. Rather, it is meant to complement your preparation, offering structured support and insight as you work toward your goals.

Who We Serve

1. Internationally Trained Healthcare Professionals

You've completed your education and worked in your home country. Now you're preparing to meet Canadian or U.S. standards. This guide helps you align your clinical knowledge with North American expectations.

2. Licensed Nurses, Paramedics, and Allied Health Workers Advancing Their Roles

Whether you're moving from general practice to a specialty field, taking on leadership, or preparing for an internal assessment, this guide helps you reinforce foundational knowledge and expand into more advanced thinking.

3. Returning Healthcare Professionals

If you're re-entering the workforce after time away, this guide is a practical starting point to evaluate what you remember, what's changed, and where to focus next.

4. New Graduates Preparing for Exams

You're nearing the end of your formal education, and now it's time to prepare for licensing. Our practice tests and explanations help you study smarter and approach your exams with confidence.

5. Healthcare Instructors, Coaches, and Bridge Programs

You need reliable, structured materials to support learners from diverse backgrounds. This guide is suitable for supplemental instruction, assessment tools, and career readiness modules.

Start Strong. Stay Sharp. Move Forward With Confidence.

Whether you're preparing for exams, transitioning into a new role, or reviewing after time away, *Healthcare Study Guide* gives you the structure and clarity to take your next step. Designed for independent learners, this guide helps you build confidence, reinforce knowledge, and stay aligned with your professional goals.

Explore additional resources, practice tools, and review materials tailored to today's healthcare environment at: HealthcareStudyGuide.com

Certainly! Here's a version that's approximately 20% longer, while maintaining clarity and structure—ideal for filling out the page more fully without being repetitive:



What Healthcare Study Guide Offers

Whether you're preparing for a certification exam, returning to the field after time away, or stepping into a new clinical role, *Healthcare Study Guide* provides the structure and insight you need to move forward with purpose. Designed to reflect North American clinical standards, this guide gives you a flexible, self-paced tool for reinforcing your knowledge and building confidence.

1. Structured Study Guides

Each guide is developed and reviewed by experienced healthcare professionals to align with core competencies across roles and jurisdictions. Content is thoughtfully organized to help learners from diverse educational backgrounds, including internationally trained professionals, navigate complex topics with clarity and focus.

2. Exam-Style Practice Tests

Timed, multiple-choice practice exams simulate real testing environments. These allow you to track progress, improve decision-making under pressure, and become more familiar with exam structure, pacing, and question format.

3. Role-Specific Question Banks

Our question banks are organized around practical responsibilities and clinical terminology you'll encounter on the job. Whether you're in direct patient care, support services, or administration, the material is crafted to reflect real-world priorities and expectations.

4. Clinical Answer Rationales

Each question is followed by a detailed rationale explaining not just which answer is correct, but why it's correct. This supports deeper learning, strengthens clinical reasoning, and encourages critical thinking—especially useful for internationally trained professionals adapting to North American protocols.

5. Supplemental Review Tools

You'll also find extra learning material on topics such as infection prevention, patient safety, ethical care, cultural competence, and interprofessional communication. These tools are designed to round out your knowledge and help you better understand the expectations of modern healthcare systems.

Using This Guide Effectively

This study guide is meant to supplement—not replace—formal education, accredited coursework, or required clinical training. It should be used to enhance your preparation by identifying your strengths, exposing gaps in knowledge, and encouraging repeat engagement with real-world scenarios and test logic.

For best results, we recommend pairing this guide with official reference materials and regulatory frameworks provided by your licensing authority, training institution, or employer. This combined approach ensures that you're not only reviewing the right material but developing a mindset for safe, confident, and effective practice.



Ready to Take the First Step Toward Career Progression

Whether you're pivoting to a new specialty, re-entering the field, or preparing for certification in the U.S. or Canada, this guide provides a structured foundation for the next step in your healthcare career.

Visit **HealthcareStudyGuide.com** to access additional resources, take full-length practice tests, and explore tools tailored to your role and goals.

Why Healthcare Study Guide

We believe healthcare education should be practical, affordable, and accessible—whether you're starting a new chapter, transitioning across borders, or stepping into a more advanced role. This guide was built to help you move forward with clarity, confidence, and direction.

This isn't a shortcut. It's a structured, expert-reviewed study and review tool designed to help you assess your knowledge, strengthen clinical reasoning, and focus on what matters most. From practice tests to detailed answer breakdowns, every feature is designed to support real-world preparation—not just academic review.

Use this guide alongside formal coursework, official licensing materials, and clinical experience for the best results.

Success Stories from Professionals Like You

"I was preparing to return to practice in North America after more than a decade abroad. This guide gave me a clear path to follow. It helped me refocus and regain my confidence before applying for hospital roles."

Priya D., Registered Nurse

"I used this guide while prepping for a trauma nurse position. The questions pushed me to think beyond memorization and into clinical decision-making. It helped me walk into the interview prepared and focused."

Daniel H., Licensed Practical Nurse

"I'm an instructor for an international bridging program. We needed something affordable that didn't compromise on depth. The explanations are sharp, the structure is clean, and my students rely on it week after week."

— Tanya W., Clinical Educator

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What This Guide Will Teach You

This guide isn't just about reviewing facts. It's about sharpening clinical reasoning, preparing for role-specific expectations, and building confidence as you advance, transition, or requalify in healthcare.

Success in this field demands more than academic knowledge. It requires focus, effort, and a mindset ready for high-pressure decision-making. Here's what to expect:

1. Progress takes work

This guide is a tool—how much you gain depends on how actively you use it. Engaging with questions, reviewing explanations, and retesting weak areas is key to progress.

2. The focus is on clinical thinking

Every question is designed to develop how you think, not just what you know. The answer explanations aren't filler—they're your opportunity to strengthen diagnostic logic, decision-making, and situational awareness.

3. It's a supplement, not a stand-alone solution

This guide is most effective when paired with accredited coursework, current regulatory materials, and hands-on experience. It helps orient your study and fill knowledge gaps—but it's not a replacement for formal training or licensure requirements.

Used consistently, this guide can help you study with more purpose, reduce stress, and show up prepared—whether for an exam, a return-to-practice interview, or a new position in healthcare.

What This Guide Is—and What It Is Not

Healthcare Study Guide is a structured study resource built to support exam preparation, professional transitions, and independent review. It includes questions, explanations, and scenario-based material designed by professionals to reflect clinical realities in North American healthcare.

However, credentialing and licensure standards vary. This guide does not guarantee certification and is not affiliated with any official regulatory or licensing body.

This is not a substitute for medical education, formal clinical instruction, or hands-on patient care experience. It is meant to complement your preparation—not replace it.

Before using this guide for credentialing purposes, verify current requirements with your licensing authority or relevant governing body.



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Whether you're studying for a national exam or re-entering the healthcare field, this guide is designed to move with you—offering practical tools to build confidence and clarity in your next step.

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Year 3: Advanced Clinical Practice and Procedures

Subject 1. Critical Care Pulmonology and ICU Protocols

- 1. What is a key role of pulmonologists?
- a) Perform heart surgeries
- b) Manage ventilated patients
- c) Prescribe antibiotics
- d) Treat skin conditions

Correct Answer: b) Manage ventilated patients

- 2. What is a common indication for intubation?
- a) Fatigue
- b) Mild cough
- c) Headache
- d) Severe hypoxia

Correct Answer: d) Severe hypoxia

- 3. Which ventilator mode is often used for ARDS?
- a) Volume assist
- b) Assist-control
- c) Spontaneous
- d) Pressure support

Correct Answer: b) Assist-control

- 4. What is the purpose of sedation in intubated patients?
- a) Enhance pain
- b) Increase agitation
- c) Reduce anxiety
- d) Prevent communication

Correct Answer: c) Reduce anxiety



5. When should a tracheostomy be considered?

- a) Patient comfort
- b) Routine suctioning
- c) Long-term ventilation
- d) Short-term intubation

Correct Answer: c) Long-term ventilation

6. What does "PEEP" stand for in ventilation?

- a) Positive expiratory endpoint
- b) Positive end-expiratory pressure
- c) Peak end-expiratory pressure
- d) Pressure end-expiratory phase

Correct Answer: b) Positive end-expiratory pressure

- 7. What is the primary goal of lung protective ventilation?
- a) Prevent barotrauma
- b) Reduce sedation needs
- c) Increase tidal volume
- d) Enhance airway pressure

Correct Answer: a) Prevent barotrauma

- 8. What is a main risk of mechanical ventilation?
- a) Weight loss
- b) Infection
- c) Sleep disturbance
- d) Muscle strengthening

Correct Answer: b) Infection



- 9. How is weaning from ventilation typically approached?
- a) Gradual reduction
- b) Higher PEEP settings
- c) Immediate cessation
- d) Increased sedation

Correct Answer: a) Gradual reduction

- 10. What is a common cause of hypoxemia in ICU patients?
- a) Muscle strain
- b) Anxiety
- c) Pulmonary embolism
- d) Skin infection

Correct Answer: c) Pulmonary embolism

- 11. What is the purpose of arterial blood gas analysis?
- a) Assess metabolic function
- b) Determine blood pressure
- c) Measure blood glucose
- d) Evaluate respiratory status

Correct Answer: d) Evaluate respiratory status

- 12. Which condition may require neuromuscular blockade?
- a) COPD
- b) ARDS
- c) Asthma
- d) Pneumonia

Correct Answer: b) ARDS



13. What is the main benefit of non-invasive ventilation?

- a) Increases sedation
- b) Requires more monitoring
- c) Enhances airway secretions
- d) Avoids intubation

Correct Answer: d) Avoids intubation

14. What is the primary function of a ventilator?

- a) Enhance nutrition
- b) Control blood pressure
- c) Provide oxygen
- d) Prevent infection

Correct Answer: c) Provide oxygen

15. What does "FiO2" represent in ventilation?

- a) Flow rate of oxygen
- b) Fraction of inspired oxygen
- c) Frequency of inspiratory oxygen
- d) Final oxygen intake

Correct Answer: b) Fraction of inspired oxygen

16. Which ventilator setting affects tidal volume?

- a) Respiratory rate
- b) Flow rate
- c) Mode of ventilation
- d) PEEP

Correct Answer: c) Mode of ventilation



17. What complication can arise from prolonged sedation?

- a) Increased appetite
- b) Enhanced cognition
- c) Delirium
- d) Improved mobility

Correct Answer: c) Delirium

18. What is the standard position for intubated patients?

- a) Supine position
- b) Sitting position
- c) Prone position
- d) Lateral position

Correct Answer: a) Supine position

19. Which maneuver helps prevent atelectasis?

- a) Coughing
- b) Incentive spirometry
- c) Deep breathing
- d) Suctioning

Correct Answer: b) Incentive spirometry

20. What is the primary cause of respiratory acidosis?

- a) Excessive hydration
- b) Increased oxygenation
- c) Decreased carbon dioxide
- d) Alveolar hypoventilation

Correct Answer: d) Alveolar hypoventilation



21. What is the role of bronchodilators in ICU?

- a) Enhance infection
- b) Promote fluid retention
- c) Increase sedation
- d) Reduce airway resistance

Correct Answer: d) Reduce airway resistance

22. What is a common indicator for extubation readiness?

- a) Stable vital signs
- b) Increased respiratory rate
- c) Severe hypoxia
- d) High sedation levels

Correct Answer: a) Stable vital signs

23. What is the recommended tidal volume for ARDS?

- a) 6-8 mL/kg
- b) 4-6 mL/kg
- c) 10-12 mL/kg
- d) 8-10 mL/kg

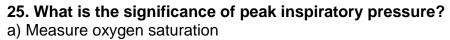
Correct Answer: a) 6-8 mL/kg

24. What is the primary goal of mechanical ventilation?

- a) Ensure adequate oxygenation
- b) Increase heart rate
- c) Provide full sedation
- d) Promote weight gain

Correct Answer: a) Ensure adequate oxygenation





- b) Determine blood flow
- c) Assess lung compliance
- d) Evaluate sedation depth

Correct Answer: c) Assess lung compliance



Subject 2. Interventional Pulmonology Procedures

- 1. What is the primary purpose of bronchoscopy?
- a) Visualize the airways
- b) Measure lung capacity
- c) Assess blood flow
- d) Remove lung tissue

Correct Answer: a) Visualize the airways

- 2. Which technique is most common for lung biopsy?
- a) Rigid bronchoscopy
- b) CT-guided biopsy
- c) Needle aspiration
- d) Open surgery

Correct Answer: c) Needle aspiration

- 3. What is thoracentesis used to treat?
- a) Asthma attacks
- b) Pleural effusion
- c) Pneumonia
- d) Lung cancer

Correct Answer: b) Pleural effusion

- 4. What is the main goal of pleural drainage?
- a) Improve oxygenation
- b) Reduce pleural pressure
- c) Increase lung volume
- d) Remove lung infections

Correct Answer: b) Reduce pleural pressure



- 5. Which bronchoscopy type is more rigid?
- a) Rigid bronchoscopy
- b) Flexible bronchoscopy
- c) Both are equal
- d) Neither is rigid

Correct Answer: a) Rigid bronchoscopy

- 6. What complication can arise from thoracentesis?
- a) Asthma exacerbation
- b) Heart failure
- c) Pneumothorax
- d) Lung cancer

Correct Answer: c) Pneumothorax

- 7. What imaging helps guide lung biopsies?
- a) X-ray
- b) CT scan
- c) Ultrasound
- d) MRI

Correct Answer: b) CT scan

- 8. What is a common indication for bronchoscopy?
- a) Asthma management
- b) Sleep apnea
- c) Airway obstruction
- d) Cough evaluation

Correct Answer: c) Airway obstruction



- 9. Which instrument is used in flexible bronchoscopy?
- a) Surgical scissors
- b) Rigid tube
- c) Endotracheal tube
- d) Flexible scope

Correct Answer: d) Flexible scope

- 10. How long does a typical thoracentesis take?
- a) 5 minutes
- b) 1 hour
- c) 30 minutes
- d) 2 hours

Correct Answer: c) 30 minutes

- 11. What is a major risk of lung biopsy?
- a) Fever
- b) Infection
- c) Nausea
- d) Cough

Correct Answer: b) Infection

- 12. Which local anesthetic is commonly used during bronchoscopy?
- a) Lidocaine
- b) Cocaine
- c) Bupivacaine
- d) Procaine

Correct Answer: a) Lidocaine



13. What does a pleural effusion indicate?

- a) Heart failure
- b) Infection
- c) Both A and B
- d) None of the above

Correct Answer: c) Both A and B

14. What is the typical patient position for thoracentesis?

- a) Prone
- b) Supine
- c) Sitting up
- d) Lying flat

Correct Answer: c) Sitting up

15. Which patient symptom often warrants bronchoscopy?

- a) Cough
- b) Shortness of breath
- c) Chest pain
- d) Fever

Correct Answer: b) Shortness of breath

- 16. What type of fluid is typically drained in pleural drainage?
- a) Blood
- b) Mucus
- c) Air
- d) Serous fluid

Correct Answer: d) Serous fluid



17. What is the main purpose of rigid bronchoscopy?

- a) Oxygen delivery
- b) Lung expansion
- c) Foreign body removal
- d) Fluid analysis

Correct Answer: c) Foreign body removal

18. What does the term "pleural space" refer to?

- a) Airway
- b) Between pleurae
- c) Lung tissue
- d) Chest cavity

Correct Answer: b) Between pleurae

19. Which procedure uses a needle for diagnosis?

- a) Bronchoscopy
- b) Thoracentesis
- c) Pulmonary function test
- d) Chest X-ray

Correct Answer: b) Thoracentesis

20. What is the main benefit of flexible bronchoscopy?

- a) Faster recovery
- b) Minimally invasive
- c) Increased visualization
- d) Better control

Correct Answer: b) Minimally invasive



21. How is oxygen typically administered post-procedure?

- a) Via nasal cannula
- b) Through IV
- c) Oral intake
- d) Inhalation

Correct Answer: a) Via nasal cannula

22. What is a common side effect of bronchoscopy?

- a) Fever
- b) Nausea
- c) Sore throat
- d) Headache

Correct Answer: c) Sore throat

23. What type of fluid is typically analyzed after thoracentesis?

- a) Mucus
- b) Blood
- c) Serous fluid
- d) Pus

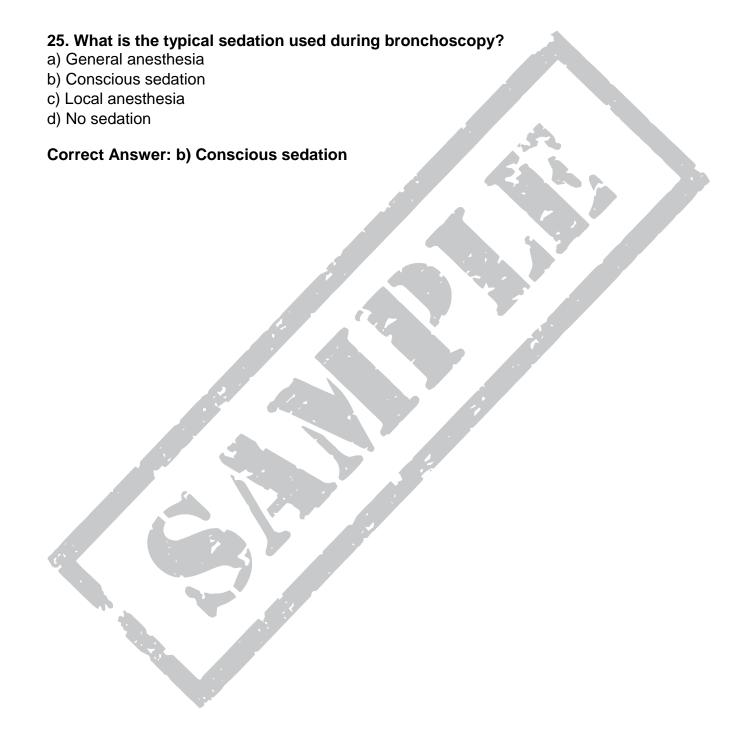
Correct Answer: c) Serous fluid

24. Which procedure is used for draining fluid from pleura?

- a) Thoracentesis
- b) Biopsy
- c) Chest X-ray
- d) Bronchoscopy

Correct Answer: a) Thoracentesis





Subject 3. Occupational and Environmental Lung Diseases

- 1. What causes asbestosis?
- a) Exposure to silica
- b) Tobacco smoke
- c) Exposure to asbestos
- d) Air pollution

Correct Answer: c) Exposure to asbestos

- 2. What is silicosis primarily caused by?
- a) Tobacco smoke
- b) Coal dust inhalation
- c) Chemical fumes
- d) Silica dust exposure

Correct Answer: d) Silica dust exposure

- 3. Which disease is associated with coal mining?
- a) Silicosis
- b) Asbestosis
- c) Asthma
- d) Black lung disease

Correct Answer: d) Black lung disease

- 4. What is the primary symptom of asbestosis?
- a) Fever
- b) Shortness of breath
- c) Cough
- d) Chest pain

Correct Answer: b) Shortness of breath



- 5. Silicosis can lead to which serious condition?
- a) Tuberculosis
- b) Asthma
- c) Chronic bronchitis
- d) Lung cancer

Correct Answer: a) Tuberculosis

- 6. Which occupation is at high risk for silicosis?
- a) Mason
- b) Software developer
- c) Teacher
- d) Factory worker

Correct Answer: a) Mason

- 7. What lung condition is characterized by fibrotic changes?
- a) Asbestosis
- b) Asthma
- c) Bronchitis
- d) COPD

Correct Answer: a) Asbestosis

- 8. Which of the following is a key diagnostic tool?
- a) Skin test
- b) X-ray
- c) MRI
- d) Blood test

Correct Answer: b) X-ray



- 9. What is a common treatment for black lung?
- a) Steroids
- b) Oxygen therapy
- c) Antibiotics
- d) Surgery

Correct Answer: b) Oxygen therapy

- 10. Asbestos exposure is primarily linked to which industry?
- a) Construction
- b) Agriculture
- c) Technology
- d) Retail

Correct Answer: a) Construction

- 11. Which lung condition can lead to pulmonary hypertension?
- a) Silicosis
- b) Asthma
- c) COPD
- d) Pneumonia

Correct Answer: a) Silicosis

- 12. Black lung disease primarily affects which group?
- a) Teachers
- b) Nurses
- c) Miners
- d) Office workers

Correct Answer: c) Miners



13. What is the hallmark sign of silicosis on X-ray?

- a) Nodular opacities
- b) Pleural effusion
- c) Atelectasis
- d) Enlarged heart

Correct Answer: a) Nodular opacities

14. Which symptom is common in black lung disease?

- a) Weight gain
- b) Night sweats
- c) Skin rash
- d) Fatigue

Correct Answer: d) Fatigue

15. What lung disease is caused by coal and silica?

- a) Mixed pneumoconiosis
- b) Chronic bronchitis
- c) Pulmonary fibrosis
- d) Asbestosis

Correct Answer: a) Mixed pneumoconiosis

16. Which population is at risk for asbestosis?

- a) Retail employees
- b) Office clerks
- c) Waitstaff
- d) Shipyard workers

Correct Answer: d) Shipyard workers



17. What is a common pulmonary function test finding in asbestosis?

- a) Increased lung compliance
- b) Increased FVC
- c) Decreased FEV1/FVC ratio
- d) Normal lung volumes

Correct Answer: c) Decreased FEV1/FVC ratio

18. What is the first symptom of silicosis?

- a) Cough
- b) Fever
- c) Chest tightness
- d) Wheezing

Correct Answer: a) Cough

19. Which lung disease can cause progressive fibrosis?

- a) Asthma
- b) Chronic bronchitis
- c) Asbestosis
- d) Emphysema

Correct Answer: c) Asbestosis

20. What can exacerbate symptoms of occupational lung diseases?

- a) Hydration
- b) Smoking
- c) Exercise
- d) Cold weather

Correct Answer: b) Smoking



21. What is a preventive measure for silicosis?

- a) Smoking cessation
- b) Dust control measures
- c) Regular exercise
- d) Increased hydration

Correct Answer: b) Dust control measures

22. Which condition can develop after asbestos exposure?

- a) Asthma
- b) Chronic bronchitis
- c) Lung cancer
- d) Emphysema

Correct Answer: c) Lung cancer

23. What is the major risk factor for black lung disease?

- a) Duration of coal dust exposure
- b) Family history
- c) Age
- d) Smoking history

Correct Answer: a) Duration of coal dust exposure

24. What is the recommended treatment for silicosis?

- a) Surgery
- b) Antibiotics
- c) Corticosteroids
- d) Supportive care

Correct Answer: d) Supportive care





- a) Asthma
- b) Silicosis



Subject 4. Pulmonary Rehabilitation and Long-Term Recovery

- 1. What is the primary goal of pulmonary rehabilitation?
- a) Decrease hospital admissions
- b) Enhance quality of life
- c) Increase exercise capacity
- d) Improve lung function

Correct Answer: b) Enhance quality of life

- 2. Which component is essential in rehabilitation programs?
- a) Nutritional counseling
- b) Exercise training
- c) Psychological support
- d) Medication management

Correct Answer: b) Exercise training

- 3. How often should pulmonary rehabilitation sessions occur?
- a) Daily sessions
- b) Once a week
- c) Three times a week
- d) Twice a week

Correct Answer: c) Three times a week

- 4. What type of exercise is commonly used?
- a) Balance training
- b) Strength training
- c) Aerobic activities
- d) Flexibility exercises

Correct Answer: c) Aerobic activities



5. What role does education play in rehabilitation?

- a) Provides coping strategies
- b) Encourages family involvement
- c) Informs about lung disease
- d) Teaches medication use

Correct Answer: c) Informs about lung disease

6. Which type of patient is ideal for rehabilitation?

- a) Patients awaiting lung transplant
- b) Patients with stable chronic lung disease
- c) Individuals with no lung issues
- d) Those with acute lung infections

Correct Answer: b) Patients with stable chronic lung disease

- 7. What is a common barrier to rehabilitation participation?
- a) Supportive family
- b) Lack of health insurance
- c) High motivation levels
- d) Adequate transportation

Correct Answer: b) Lack of health insurance

- 8. How is progress typically measured?
- a) Weight fluctuations
- b) Patient satisfaction surveys
- c) Spirometry results
- d) Daily activity logs

Correct Answer: c) Spirometry results



9. Which technique aids in breath control?

- a) Diaphragmatic breathing
- b) High-intensity training
- c) Singing exercises
- d) Weight lifting

Correct Answer: a) Diaphragmatic breathing

10. What is the recommended duration of rehabilitation?

- a) 3-4 months
- b) 6-12 weeks
- c) 1 year
- d) 1-2 weeks

Correct Answer: b) 6-12 weeks

11. Who is involved in the rehabilitation team?

- a) Solely nurses
- b) Multidisciplinary professionals
- c) Only physicians
- d) Just physical therapists

Correct Answer: b) Multidisciplinary professionals

12. What is a key psychological aspect to address?

- a) Weight loss
- b) Social media use
- c) Anxiety and depression
- d) Sleep patterns

Correct Answer: c) Anxiety and depression



13. How can family involvement benefit patients?

- a) Reduces treatment times
- b) Lowers healthcare costs
- c) Enhances emotional support
- d) Increases social interactions

Correct Answer: c) Enhances emotional support

14. What is a critical factor in program design?

- a) Generic exercise routines
- b) Group size limitations
- c) Length of program
- d) Individual patient needs

Correct Answer: d) Individual patient needs

15. What is the significance of follow-up assessments?

- a) To adjust medication
- b) To determine insurance coverage
- c) To evaluate patient progress
- d) To reduce hospital visits

Correct Answer: c) To evaluate patient progress

16. Which exercise is often prescribed for endurance?

- a) High-intensity workouts
- b) Resistance training
- c) Walking or cycling
- d) Yoga sessions

Correct Answer: c) Walking or cycling



17. How does smoking cessation impact rehabilitation?

- a) Only benefits young patients
- b) Has no effect
- c) Significantly improves outcomes
- d) Negatively affects recovery

Correct Answer: c) Significantly improves outcomes

18. What is the role of inhalers in rehabilitation?

- a) Used as needed
- b) Regularly prescribed
- c) Only for acute attacks
- d) Not used at all

Correct Answer: b) Regularly prescribed

19. Why is goal setting important?

- a) It's unnecessary
- b) It complicates treatment
- c) It wastes time
- d) It provides focus and motivation

Correct Answer: d) It provides focus and motivation

20. What is the benefit of group therapy sessions?

- a) Shared experiences
- b) Increased isolation
- c) Lower costs
- d) Less personal attention

Correct Answer: a) Shared experiences



21. What type of monitoring is essential during exercise?

- a) Weight
- b) Blood pressure only
- c) Skin temperature
- d) Heart rate and oxygen levels

Correct Answer: d) Heart rate and oxygen levels

22. Which strategy helps maintain long-term recovery?

- a) Disregarding follow-up care
- b) Avoiding exercise post-rehabilitation
- c) Ignoring symptoms
- d) Continuing home exercise programs

Correct Answer: d) Continuing home exercise programs

23. What is the impact of comorbidities on rehabilitation?

- a) Complicates treatment plans
- b) No significant impact
- c) Enhances recovery
- d) Only affects elderly patients

Correct Answer: a) Complicates treatment plans

24. Which assessment tool is commonly used in rehabilitation?

- a) Six-minute walk test
- b) Body mass index
- c) Chest X-ray
- d) Blood tests

Correct Answer: a) Six-minute walk test





- b) Regular physical activity
- c) Skipping meals
- d) Sedentary behavior

Correct Answer: b) Regular physical activity



Subject 5. Sleep Medicine and Pulmonology

- 1. What is the primary symptom of sleep apnea?
- a) Nightmares frequently
- b) Excessive daytime sleepiness
- c) Loud snoring
- d) Restless legs syndrome

Correct Answer: b) Excessive daytime sleepiness

- 2. Which test is commonly used to diagnose sleep apnea?
- a) CT scan
- b) Blood test
- c) X-ray imaging
- d) Polysomnography

Correct Answer: d) Polysomnography

- 3. What is a common treatment for obstructive sleep apnea?
- a) Medication
- b) Behavioral therapy
- c) Surgery
- d) CPAP therapy

Correct Answer: d) CPAP therapy

- 4. What is hypoventilation?
- a) Excessive breathing
- b) Sleepwalking episodes
- c) Irregular sleep patterns
- d) Decreased breathing efficiency

Correct Answer: d) Decreased breathing efficiency



- 5. Which medication class is often used for narcolepsy?
- a) Antibiotics
- b) Stimulants
- c) Antidepressants
- d) Opioids

Correct Answer: b) Stimulants

- 6. What lifestyle change can help sleep apnea?
- a) Alcohol consumption
- b) Smoking cessation
- c) Increased caffeine intake
- d) Weight loss

Correct Answer: d) Weight loss

- 7. What device is used during sleep studies?
- a) ECG machine
- b) Sleep tracker
- c) CPAP machine
- d) Pulse oximeter

Correct Answer: d) Pulse oximeter

- 8. What is a potential complication of untreated sleep apnea?
- a) Increased energy
- b) Weight gain
- c) Heart problems
- d) Improved alertness

Correct Answer: c) Heart problems



9. How is narcolepsy diagnosed?

- a) X-rays
- b) Blood tests
- c) Urine tests
- d) Sleep study

Correct Answer: d) Sleep study

10. What is a common sign of hypoventilation?

- a) Frequent waking
- b) Shallow breathing
- c) Loud snoring
- d) Night sweats

Correct Answer: b) Shallow breathing

11. Which therapy improves sleep quality in sleep apnea?

- a) Massage therapy
- b) CPAP therapy
- c) Light therapy
- d) Cognitive therapy

Correct Answer: b) CPAP therapy

12. What is a common risk factor for sleep apnea?

- a) Obesity
- b) Frequent hydration
- c) Regular exercise
- d) High fiber diet

Correct Answer: a) Obesity



13. What is the role of a sleep study?

- a) Measure heart rate
- b) Assess sleep quality
- c) Monitor blood pressure
- d) Diagnose lung cancer

Correct Answer: b) Assess sleep quality

14. Which condition can cause excessive daytime sleepiness?

- a) Asthma
- b) COPD
- c) Pneumonia
- d) Narcolepsy

Correct Answer: d) Narcolepsy

15. What is a common sign of obstructive sleep apnea?

- a) Excessive daytime fatigue
- b) Frequent headaches
- c) Increased energy
- d) Improved concentration

Correct Answer: a) Excessive daytime fatigue

16. What lifestyle factor can worsen sleep apnea?

- a) Regular exercise
- b) Adequate hydration
- c) Smoking
- d) Healthy diet

Correct Answer: c) Smoking



17. What is the purpose of MSLT?

- a) Diagnose sleep disorders
- b) Evaluate lung capacity
- c) Measure heart function
- d) Assess blood pressure

Correct Answer: a) Diagnose sleep disorders

18. What is a potential risk of untreated hypoventilation?

- a) Improved sleep
- b) Hypercapnia
- c) Increased energy
- d) Weight loss

Correct Answer: b) Hypercapnia

19. Which demographic is most affected by narcolepsy?

- a) Pregnant women
- b) Middle-aged men
- c) Elderly individuals
- d) Children and young adults

Correct Answer: d) Children and young adults

20. What is an effective strategy for managing sleep apnea?

- a) Regular physical activity
- b) Increasing screen time
- c) Skipping meals
- d) Consuming caffeine

Correct Answer: a) Regular physical activity



21. Which device is essential for CPAP therapy?

- a) Heart monitor
- b) Airway pressure machine
- c) Oxygen tank
- d) Humidifier

Correct Answer: b) Airway pressure machine

22. What can exacerbate narcolepsy symptoms?

- a) Adequate hydration
- b) Regular sleep schedule
- c) Stress
- d) Healthy diet

Correct Answer: c) Stress

23. What is the main goal of narcolepsy treatment?

- a) Increase sleep duration
- b) Enhance daytime alertness
- c) Reduce appetite
- d) Improve lung function

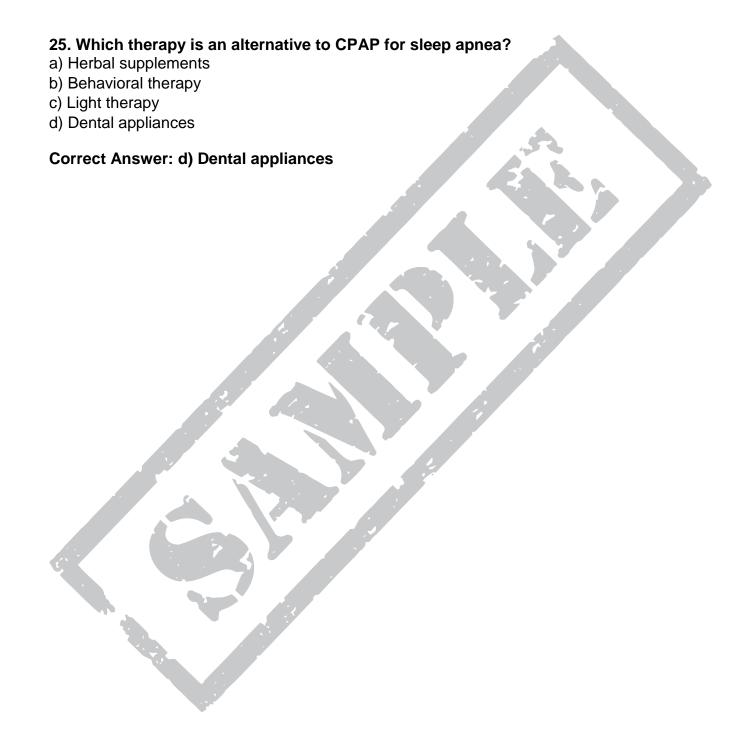
Correct Answer: b) Enhance daytime alertness

24. What is a potential consequence of untreated sleep apnea?

- a) Enhanced memory
- b) Increased productivity
- c) Improved mood
- d) Risk of stroke

Correct Answer: d) Risk of stroke





Subject 6. Math: Dosage Calculations for Pulmonary Medications

- 1. A patient requires 2 mg/kg of a corticosteroid. If they weigh 150 pounds / 68.04 kg, how many mg should they receive?
- a) 136 mg
- b) 175 mg
- c) 150 mg
- d) 200 mg

Correct Answer: a) 136 mg

- 2. An inhaler delivers 90 mcg per puff. If a patient requires 3 puffs, how much medication do they receive?
- a) 270 mcg
- b) 240 mcg
- c) 180 mcg
- d) 300 mcg

Correct Answer: a) 270 mcg

- 3. A nebulizer treatment delivers 0.5 mg of medication in 2 ml of solution. How much medication is in 5 ml?
- a) 1.25 mg
- b) 2 mg
- c) 1 mg
- d) 1.5 mg

Correct Answer: a) 1.25 mg

- 4. A patient needs 10 mg of a biologic medication. If the vial contains 25 mg in 0.5 ml, how much volume do they need?
- a) 0.3 ml
- b) 0.5 ml
- c) 0.4 ml
- d) 0.2 ml

Correct Answer: d) 0.2 ml

- 5. If a patient is prescribed 1.5 mg of a medication and it comes in 300 mcg per ml, how many ml should they receive?
- a) 2.5 ml
- b) 5 ml
- c) 4 ml
- d) 3 ml

Correct Answer: b) 5 ml

- 6. A patient is to receive 2 doses of 1.5 mg of an inhaled medication. If each inhaler has 200 puffs, how much medication is left after the doses?
- a) 199 puffs
- b) 198 puffs
- c) 196 puffs
- d) 197 puffs

Correct Answer: a) 199 puffs

- 7. A nebulizer solution contains 2 mg of medication in 4 ml. If a patient needs 6 mg, how many ml should be administered?
- a) 12 ml
- b) 8 ml
- c) 10 ml
- d) 6 ml

Correct Answer: a) 12 ml

- 8. A patient receives 6 mg of a medication, and the solution is dosed at 0.3 mg per ml. How many ml are needed for the dose?
- a) 15 ml
- b) 20 ml
- c) 18 ml
- d) 10 ml

Correct Answer: b) 20 ml

- 9. A patient needs 5 mg of a medication. If the vial has 1 mg per 2 ml, how much volume should be administered?
- a) 6 ml
- b) 4 ml
- c) 8 ml
- d) 10 ml

Correct Answer: d) 10 ml

- 10. A corticosteroid comes in a solution of 0.5 mg per ml. If a patient requires 2.5 mg, how many ml will they need?
- a) 2 ml
- b) 3 ml
- c) 4 ml
- d) 5 ml

Correct Answer: d) 5 ml

- 11. A patient needs a total of 12 mg of medication. If each inhaler contains 300 mcg per puff, how many puffs are required?
- a) 40 puffs
- b) 10 puffs
- c) 20 puffs
- d) 30 puffs

Correct Answer: a) 40 puffs

- 12. A nebulizer delivers 1 mg in 0.5 ml. If a patient needs 3 mg, how much volume will be needed?
- a) 2 ml
- b) 3 ml
- c) 1.5 ml
- d) 4 ml

Correct Answer: c) 1.5 ml

- 13. How much medication will a patient receive if they take 4 puffs of a drug that delivers 200 mcg per puff?
- a) 600 mcg
- b) 1000 mcg
- c) 400 mcg
- d) 800 mcg

Correct Answer: d) 800 mcg

- 14. A patient should receive 1.2 mg of a drug that comes in a concentration of 0.4 mg per ml. How many ml should be administered?
- a) 2 ml
- b) 2.5 ml
- c) 3 ml
- d) 4 ml

Correct Answer: c) 3 ml

- 15. If a nebulizer treatment contains 2 mg of medication in 5 ml, how much medication is present in 10 ml?
- a) 6 mg
- b) 10 mg
- c) 4 mg
- d) 8 mg

Correct Answer: c) 4 mg

- 16. A patient requires 15 mg of a biologic medication. If the vial contains 5 mg per ml, how much volume should be given?
- a) 3 ml
- b) 5 ml
- c) 2 ml
- d) 4 ml

Correct Answer: a) 3 ml

- 17. A corticosteroid prescribed is 0.3 mg per puff. If a patient takes 5 puffs, how much total medication is administered?
- a) 2.5 mg
- b) 2 mg
- c) 1.5 mg
- d) 1.2 mg

Correct Answer: c) 1.5 mg

- 18. A patient requires 1.5 mg of a medication. If the solution concentration is 0.25 mg/ml, how many ml are needed?
- a) 4 ml
- b) 6 ml
- c) 7 ml
- d) 5 ml

Correct Answer: b) 6 ml

- 19. An inhaler delivers 120 mcg per puff. If a patient needs 1.2 mg total, how many puffs are required?
- a) 12 puffs
- b) 8 puffs
- c) 15 puffs
- d) 10 puffs

Correct Answer: d) 10 puffs

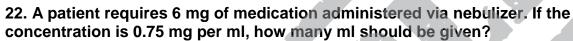
- 20. A nebulizer solution has a concentration of 2 mg in 5 ml. If a patient requires 8 mg, how much volume will be necessary?
- a) 25 ml
- b) 20 ml
- c) 30 ml
- d) 15 ml

Correct Answer: b) 20 ml

21. A patient needs a total of 4 mg of a medication. If it con	nes in 0.5 mg per ml,
how much volume is required?	

- a) 6 ml
- b) 12 ml
- c) 8 ml
- d) 10 ml

Correct Answer: c) 8 ml



- a) 5 ml
- b) 7 ml
- c) 6 ml
- d) 8 ml

Correct Answer: d) 8 ml

- 23. A patient should take 1.5 mg of a medication. If it is available at 300 mcg per ml, how many ml must be given?
- a) 5 ml
- b) 6 ml
- c) 4 ml
- d) 3 ml

Correct Answer: a) 5 ml

- 24. A nebulizer provides 1 mg of medication in 2 ml. How much medication is provided in 8 ml?
- a) 3 mg
- b) 4 mg
- c) 5 mg
- d) 6 mg

Correct Answer: b) 4 mg

25. If a patient needs 12 mg of a medication and it comes in 1.5 mg per ml, how many ml should be administered?



b) 4 ml

c) 8 ml

d) 5 ml Correct Answer: c) 8 ml

Scrambled Quizzes:

Quiz 1. Critical Care and Interventional Procedures

- 1. What is the purpose of bronchoscopy?
- a) Oxygen saturation measurement
- b) Lung tissue examination
- c) Fluid removal
- d) Ventilator adjustment

Correct Answer: b) Lung tissue examination

- 2. When is thoracentesis indicated?
- a) Fluid accumulation diagnosis
- b) Routine check-up
- c) Medication administration
- d) Blood sample collection

Correct Answer: a) Fluid accumulation diagnosis

- 3. Which device is essential for mechanical ventilation?
- a) Ventilator
- b) Nebulizer
- c) Spirometer
- d) Pulse oximeter

Correct Answer: a) Ventilator

- 4. What does ARDS stand for?
- a) Advanced Respiratory Disease Status
- b) Acute Respiratory Disease Study
- c) Airway Response Diagnostic System
- d) Acute Respiratory Distress Syndrome

Correct Answer: d) Acute Respiratory Distress Syndrome



- 5. What is the main goal of ICU care?
- a) Rehabilitation
- b) Patient comfort
- c) Disease prevention
- d) Life support

Correct Answer: d) Life support

- 6. How is a pulmonary embolism diagnosed?
- a) Chest X-ray
- b) Blood pressure measurement
- c) CT pulmonary angiography
- d) Ultrasound

Correct Answer: c) CT pulmonary angiography

- 7. What is the primary purpose of a ventilator?
- a) Monitor blood gases
- b) Measure lung capacity
- c) Administer medications
- d) Aid breathing

Correct Answer: d) Aid breathing

- 8. Which procedure removes fluid from the pleural space?
- a) Thoracentesis
- b) Biopsy
- c) Endoscopy
- d) Bronchoscopy

Correct Answer: a) Thoracentesis



9. What is the common complication of intubation?

- a) Cardiac arrest
- b) Allergic reaction
- c) Lung infection
- d) Esophageal injury

Correct Answer: d) Esophageal injury

10. What does PEEP stand for in ventilation?

- a) Positive End Expiratory Pressure
- b) Positive Expiratory End Pressure
- c) Passive Expiratory End Pressure
- d) Peak Expiratory End Pressure

Correct Answer: a) Positive End Expiratory Pressure

11. Which condition requires immediate intubation?

- a) Respiratory failure
- b) Pneumonia
- c) Asthma exacerbation
- d) Severe COPD

Correct Answer: a) Respiratory failure

12. What is the role of a bronchodilator?

- a) Provide sedation
- b) Open airways
- c) Reduce inflammation
- d) Increase lung volume

Correct Answer: b) Open airways



13. Which condition is treated with CPAP?

- a) Lung cancer
- b) Asthma
- c) Sleep apnea
- d) Pulmonary fibrosis

Correct Answer: c) Sleep apnea

14. What is a common indicator for ICU admission?

- a) Respiratory failure
- b) Stable vitals
- c) Mild dyspnea
- d) Routine monitoring

Correct Answer: a) Respiratory failure

15. What does a pulse oximeter measure?

- a) Oxygen saturation
- b) Blood glucose
- c) Blood pressure
- d) Heart rate

Correct Answer: a) Oxygen saturation

16. Which procedure is performed for lung biopsy?

- a) Bronchoscopy
- b) Chest X-ray
- c) Thoracentesis
- d) CT scan

Correct Answer: a) Bronchoscopy



17. What is the primary function of surfactant?

- a) Increase lung elasticity
- b) Aid oxygen diffusion
- c) Prevent alveolar collapse
- d) Reduce airway resistance

Correct Answer: c) Prevent alveolar collapse

18. What does the term "hypoxemia" refer to?

- a) High carbon dioxide
- b) Low oxygen levels
- c) High blood sugar
- d) Low blood pressure

Correct Answer: b) Low oxygen levels

19. Which sign indicates respiratory distress?

- a) Calm demeanor
- b) Normal speech
- c) Rapid breathing
- d) Steady heart rate

Correct Answer: c) Rapid breathing

20. What does the term "atelectasis" mean?

- a) Infection spread
- b) Fluid accumulation
- c) Airway obstruction
- d) Lung collapse

Correct Answer: d) Lung collapse



21. What is an indication for mechanical ventilation?

- a) Severe hypoxia
- b) Allergic reaction
- c) Diabetes
- d) Heart failure

Correct Answer: a) Severe hypoxia

22. Which technique is used to assess lung function?

- a) Thoracentesis
- b) CT scan
- c) Bronchoscopy
- d) Spirometry

Correct Answer: d) Spirometry

23. What is the primary risk of sedation in ICU?

- a) Respiratory depression
- b) Insomnia
- c) Hypertension
- d) Anxiety

Correct Answer: a) Respiratory depression

24. How is a tracheostomy performed?

- a) In the neck
- b) In the abdomen
- c) In the chest
- d) Through the mouth

Correct Answer: a) In the neck



25. What is the purpose of arterial blood gas analysis? a) Measure blood glucose

- b) Monitor heart rate
- c) Evaluate oxygenation and acid-base status
- d) Assess lung function

Correct Answer: c) Evaluate oxygenation and acid-base status



Quiz 2. Environmental Lung Disease and Occupational Health

- 1. What lung disease is caused by asbestos exposure?
- a) Bronchitis
- b) Asthma
- c) Asbestosis
- d) Silicosis

Correct Answer: c) Asbestosis

- 2. Which substance is known for causing silicosis?
- a) Coal dust
- b) Asbestos
- c) Silica dust
- d) Pollen

Correct Answer: c) Silica dust

- 3. What is the primary risk factor for farmer's lung?
- a) Animal waste
- b) Pesticides
- c) Chemical fertilizers
- d) Moldy hay

Correct Answer: d) Moldy hay

- 4. Which disease is associated with coal mining?
- a) Pneumoconiosis
- b) Asthma
- c) Emphysema
- d) Chronic bronchitis

Correct Answer: a) Pneumoconiosis



- 5. What is the main cause of byssinosis?
- a) Wood dust
- b) Cotton dust
- c) Grain dust
- d) Chemical fumes

Correct Answer: b) Cotton dust

- 6. Which lung condition is linked to fiberglass exposure?
- a) Interstitial lung disease
- b) Pleural effusion
- c) Lung cancer
- d) Chronic obstructive pulmonary disease

Correct Answer: a) Interstitial lung disease

- 7. What is the effect of long-term exposure to asbestos?
- a) Increased immunity
- b) Lung cancer
- c) Improved lung capacity
- d) Reduced fatigue

Correct Answer: b) Lung cancer

- 8. Which disease results from exposure to too much dust?
- a) Silicosis
- b) Chronic bronchitis
- c) Asthma
- d) Allergic rhinitis

Correct Answer: a) Silicosis



- 9. What is a common symptom of occupational asthma?
- a) Weight gain
- b) Chest pain
- c) Dry cough
- d) Fever

Correct Answer: c) Dry cough

- 10. Which inhaled substance causes metal fume fever?
- a) Lead
- b) Arsenic
- c) Zinc
- d) Mercury

Correct Answer: c) Zinc

- 11. What lung disease can result from grain exposure?
- a) Silicosis
- b) Byssinosis
- c) Emphysema
- d) Asthma

Correct Answer: b) Byssinosis

- 12. Which occupational hazard can lead to chronic bronchitis?
- a) Heat exposure
- b) Mold exposure
- c) Dust exposure
- d) Pollen exposure

Correct Answer: c) Dust exposure



13. What is the primary symptom of asbestosis?

- a) Coughing
- b) Nausea
- c) Fever
- d) Chest tightness

Correct Answer: a) Coughing

14. Which lung disease is common in shipyard workers?

- a) Farmers' lung
- b) Silicosis
- c) Asbestosis
- d) Byssinosis

Correct Answer: c) Asbestosis

15. What is the best method to assess workplace air quality?

- a) Employee feedback
- b) Visual inspection
- c) Personal interviews
- d) Air sampling

Correct Answer: d) Air sampling

- 16. Which lung disease is often underreported in construction workers?
- a) Silicosis
- b) Pneumonia
- c) COPD
- d) Asthma

Correct Answer: a) Silicosis



17. What is a common occupational hazard in welding?

- a) Asbestos
- b) Pesticides
- c) Dust
- d) Chemical fumes

Correct Answer: d) Chemical fumes

18. Which respiratory condition is linked to rubber manufacturing?

- a) Silicosis
- b) Asthma
- c) Byssinosis
- d) Radon exposure

Correct Answer: b) Asthma

19. What is a common symptom of pneumoconiosis?

- a) Shortness of breath
- b) Weight loss
- c) Fever
- d) Nausea

Correct Answer: a) Shortness of breath

- 20. What is the primary prevention method for occupational lung diseases?
- a) Early diagnosis
- b) Regular exercise
- c) Medication
- d) Workplace safety measures

Correct Answer: d) Workplace safety measures



21. Which factor increases the risk of developing lung cancer in workers?

- a) Reduced physical activity
- b) Non-exposure to dust
- c) High altitude
- d) Long-term exposure to carcinogens

Correct Answer: d) Long-term exposure to carcinogens

22. What is a critical step in workplace safety assessments?

- a) Identifying hazardous materials
- b) Employee satisfaction surveys
- c) Conducting team-building activities
- d) Scheduling regular breaks

Correct Answer: a) Identifying hazardous materials

23. Which lung condition is associated with occupational exposure to isocyanates?

- a) Silicosis
- b) Lung cancer
- c) Asthma
- d) Chronic bronchitis

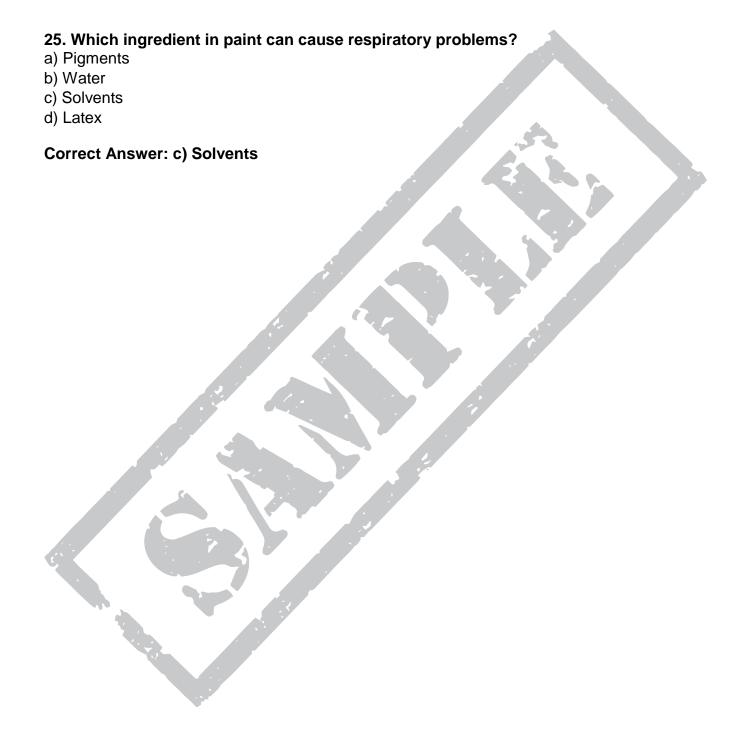
Correct Answer: c) Asthma

24. What is a common respiratory symptom of mold exposure?

- a) Fever
- b) Joint pain
- c) Chest pain
- d) Coughing

Correct Answer: d) Coughing





Quiz 3. Sleep Medicine and Rehab

- 1. What is the primary purpose of sleep studies?
- a) Evaluate blood pressure
- b) Monitor heart health
- c) Diagnose sleep disorders
- d) Assess lung capacity

Correct Answer: c) Diagnose sleep disorders

- 2. Which device is commonly used for sleep apnea?
- a) Nebulizer
- b) CPAP machine
- c) Inhaler
- d) Oxygen concentrator

Correct Answer: b) CPAP machine

- 3. What does CPAP stand for?
- a) Controlled Positive Airway Pressure
- b) Continuous Positive Airway Pressure
- c) Continuous Positive Arterial Pressure
- d) Continuous Pulmonary Airway Pressure

Correct Answer: b) Continuous Positive Airway Pressure

- 4. What is a common side effect of CPAP?
- a) Weight gain
- b) Dry mouth
- c) Snoring
- d) Increased appetite

Correct Answer: b) Dry mouth



- 5. Which exercise is beneficial for COPD patients?
- a) Running
- b) Pilates
- c) High-intensity interval training
- d) Strength training

Correct Answer: d) Strength training

- 6. What is the role of pulmonary rehabilitation?
- a) Reduce body weight
- b) Cure lung diseases
- c) Improve lung function
- d) Increase heart rate

Correct Answer: c) Improve lung function

- 7. How often should CPAP equipment be cleaned?
- a) Weekly
- b) Daily
- c) Monthly
- d) Yearly

Correct Answer: a) Weekly

- 8. What is a typical symptom of sleep apnea?
- a) Excessive daytime sleepiness
- b) Increased heart rate
- c) Frequent headaches
- d) Low oxygen saturation

Correct Answer: a) Excessive daytime sleepiness



9. What is the purpose of a sleep diary?

- a) Record exercise routines
- b) Track sleep patterns
- c) Assess mental health
- d) Monitor dietary intake

Correct Answer: b) Track sleep patterns

10. What does "apnea" mean?

- a) Nighttime coughing
- b) Difficulty falling asleep
- c) Excessive snoring
- d) Temporary cessation of breathing

Correct Answer: d) Temporary cessation of breathing

11. What is a common cause of obstructive sleep apnea?

- a) Anxiety
- b) High blood pressure
- c) Asthma
- d) Obesity

Correct Answer: d) Obesity

- 12. What is a potential complication of untreated sleep apnea?
- a) Diabetes
- b) Insomnia
- c) Hypertension
- d) Asthma

Correct Answer: c) Hypertension



13. What is the main goal of sleep apnea treatment?

- a) Increase exercise capacity
- b) Improve quality of life
- c) Reduce medication use
- d) Monitor sleep habits

Correct Answer: b) Improve quality of life

14. What can nasal congestion affect during sleep?

- a) Sleep quality
- b) Sleep duration
- c) All of the above
- d) Airway obstruction

Correct Answer: c) All of the above

15. Which exercise improves lung capacity?

- a) Breathing exercises
- b) Cycling
- c) Yoga
- d) Weightlifting

Correct Answer: a) Breathing exercises

16. What is a common sign of sleep deprivation?

- a) Increased energy
- b) Difficulty concentrating
- c) Improved mood
- d) Enhanced memory

Correct Answer: b) Difficulty concentrating



17. What type of mask is typically used with CPAP?

- a) Nasal mask
- b) Nasal pillow mask
- c) Full-face mask
- d) All of the above

Correct Answer: d) All of the above

18. How does obesity relate to sleep apnea?

- a) Increases airway resistance
- b) Impairs sleep quality
- c) All of the above
- d) Decreases oxygen levels

Correct Answer: c) All of the above

19. What is a common non-invasive treatment for sleep apnea?

- a) Oxygen therapy
- b) Surgery
- c) CPAP therapy
- d) Medication

Correct Answer: c) CPAP therapy

20. What lifestyle change can reduce sleep apnea severity?

- a) Irregular sleep schedule
- b) Increased caffeine intake
- c) Weight loss
- d) Smoking

Correct Answer: c) Weight loss



21. What is the role of patient education in sleep medicine?

- a) Enhance treatment adherence
- b) Reduce knowledge gaps
- c) Minimize follow-up visits
- d) Increase patient anxiety

Correct Answer: a) Enhance treatment adherence

22. Which condition can worsen sleep apnea symptoms?

- a) All of the above
- b) Asthma
- c) Allergies
- d) GERD

Correct Answer: a) All of the above

23. What is a common tool for assessing sleep quality?

- a) Blood test
- b) Chest X-ray
- c) Spirometry
- d) Sleep questionnaire

Correct Answer: d) Sleep questionnaire

24. What can improve CPAP compliance?

- a) Ignoring discomfort
- b) Reducing therapy time
- c) Regular follow-ups
- d) Using without mask

Correct Answer: c) Regular follow-ups





- a) Stop using it
- b) Ignore discomfort
- c) Change settings independently
- d) Consult pulmonologist

Correct Answer: d) Consult pulmonologist



Quiz 4. Math: Pulmonary Drug Dosage Calculations

- 1. A patient needs a 5 mg/kg dose of medication. If the patient weighs 150 pounds / 68.04 kg, how much medication is required in mg?
- a) 340 mg
- b) 750 mg
- c) 500 mg
- d) 300 mg

Correct Answer: a) 340 mg

- 2. If a nebulizer solution contains 0.5 mg/ml and the required dose is 2.5 mg, how many milliliters should be administered?
- a) 6 ml
- b) 4 ml
- c) 2 ml
- d) 5 ml

Correct Answer: d) 5 ml

- 3. A pediatric patient weighing 40 pounds / 18.14 kg needs medication at a dosage of 10 mg/kg. What is the total dose required?
- a) 300 mg
- b) 150 mg
- c) 250 mg
- d) 182 mg

Correct Answer: d) 182 mg

- 4. A child weighing 30 pounds / 13.61 kg requires an infusion rate of 1.5 mg/kg/hr. What is the hourly infusion rate in mg?
- a) 20 mg
- b) 50 mg
- c) 30 mg
- d) 40 mg

Correct Answer: a) 20 mg



- 5. A nebulized medication is prescribed at a dose of 2 mg/kg. For a 60 pounds / 27.22 kg patient, how many mg are needed?
- a) 80 mg
- b) 50 mg
- c) 55 mg
- d) 60 mg

Correct Answer: c) 55 mg

- 6. If a patient requires 3 mg/kg of medication and weighs 120 pounds / 54.43 kg, how many mg should be administered?
- a) 163 mg
- b) 180 mg
- c) 150 mg
- d) 200 mg

Correct Answer: a) 163 mg

- 7. A medication is to be infused at 0.1 mg/kg/min for a 70 pounds / 31.75 kg patient. What is the total infusion rate in mg/min?
- a) 5 mg/min
- b) 2 mg/min
- c) 4 mg/min
- d) 3 mg/min

Correct Answer: d) 3 mg/min

- 8. A child weighing 50 pounds / 22.68 kg is prescribed a 15 mg/kg dose of medication. What is the total dose in mg?
- a) 400 mg
- b) 500 mg
- c) 600 mg
- d) 340 mg

Correct Answer: d) 340 mg

- 9. If a patient needs a 0.5 mg/kg dose of medication and weighs 110 pounds / 49.9 kg, how much medication should be administered?
- a) 50 mg
- b) 25 mg
- c) 45 mg
- d) 55 mg

Correct Answer: b) 25 mg

- 10. A nebulizer requires a dose of 1.5 mg/kg. For a 90 pounds / 40.82 kg child, how many mg of medication is needed?
- a) 70 mg
- b) 80 mg
- c) 65 mg
- d) 61 mg

Correct Answer: d) 61 mg

- 11. A 35 pounds / 15.88 kg child needs a medication dose of 12 mg/kg. How much medication is necessary?
- a) 190 mg
- b) 400 mg
- c) 450 mg
- d) 425 mg

Correct Answer: a) 190 mg

- 12. If a patient requires 2.5 mg/kg of drug and weighs 80 pounds / 36.29 kg, what is the total dose?
- a) 91 mg
- b) 200 mg
- c) 150 mg
- d) 250 mg

Correct Answer: a) 91 mg



- 13. A child weighing 45 pounds / 20.41 kg needs medication at 8 mg/kg. How much medication is required?
- a) 450 mg
- b) 250 mg
- c) 400 mg
- d) 164 mg

Correct Answer: d) 164 mg

- 14. A patient requires a nebulized medication at a rate of 1.2 mg/kg/hr. For a 65 pounds / 29.48 kg patient, what is the hourly dosage?
- a) 75 mg
- b) 80 mg
- c) 65 mg
- d) 35 mg

Correct Answer: d) 35 mg

- 15. A pediatric patient weighing 38 pounds / 17.24 kg needs a dose of 20 mg/kg. What is the total dose required?
- a) 700 mg
- b) 850 mg
- c) 345 mg
- d) 750 mg

Correct Answer: c) 345 mg

- 16. If a nebulized solution has a concentration of 0.2 mg/ml and a child needs 4 mg, how many ml should be given?
- a) 30 ml
- b) 20 ml
- c) 25 ml
- d) 15 ml

Correct Answer: b) 20 ml

- 17. A patient requires 3.5 mg/kg of medication and weighs 150 pounds / 68.04 kg. How much medication is needed?
- a) 450 mg
- b) 400 mg
- c) 550 mg
- d) 500 mg

Correct Answer: b) 400 mg

- 18. A child needs a dose of 0.75 mg/kg of medication. If they weigh 42 pounds / 19.05 kg, how much medication should be given?
- a) 35 mg
- b) 14 mg
- c) 30 mg
- d) 25 mg

Correct Answer: b) 14 mg

- 19. If a medication is prescribed at 0.2 mg/kg for a patient weighing 55 pounds / 24.95 kg, how many mg is needed?
- a) 15 mg
- b) 20 mg
- c) 10 mg
- d) 5 mg

Correct Answer: d) 5 mg

- 20. A patient weighing 65 pounds / 29.48 kg needs a dose of 1.8 mg/kg. What is the total amount of medication required?
- a) 90 mg
- b) 95 mg
- c) 105 mg
- d) 53 mg

Correct Answer: d) 53 mg

- 21. If a child weighing 50 pounds / 22.68 kg requires a dose of 0.6 mg/kg/hr, what is the infusion rate in mg/hr?
- a) 14 mg/hr
- b) 25 mg/hr
- c) 30 mg/hr
- d) 35 mg/hr

Correct Answer: a) 14 mg/hr

- 22. A nebulized medication is prescribed at 5 mg/kg for a 40 pounds / 18.14 kg child. How much medication is needed?
- a) 220 mg
- b) 91 mg
- c) 200 mg
- d) 210 mg

Correct Answer: b) 91 mg

- 23. A patient weighing 90 pounds / 40.82 kg requires medication at a dose of 0.5 mg/kg. What is the total dosage required?
- a) 35 mg
- b) 45 mg
- c) 20 mg
- d) 40 mg

Correct Answer: c) 20 mg

- 24. A 33 pounds / 14.97 kg patient needs a medication dose of 1.2 mg/kg. What is the total amount of medication required?
- a) 18 mg
- b) 30 mg
- c) 35 mg
- d) 45 mg

Correct Answer: a) 18 mg



- a) 11 mg
- b) 35 mg
- c) 30 mg

d) 25 mg

Correct Answer: a) 11 mg



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About the Creators

Bobby Bedi

Bobby Bedi is a digital strategist and EdTech systems architect with over 30 years of experience building scalable learning platforms. With roots in architecture and digital innovation, he specializes in designing user-focused education tools that blend clean design with powerful infrastructure.

Bobby has led digital transformation initiatives across startups, public companies, and global education ventures. His work centers on making learning more intuitive, accessible, and effective—regardless of a user's background or starting point.

At Healthcare Study Guide, Bobby oversees platform strategy, systems design, and digital experience—ensuring that each product delivers clarity, performance, and long-term value for learners and institutions alike.

Kris McFarlane

Kris McFarlane is a content strategist, learning designer, and EdTech entrepreneur with two decades of experience building practical, outcome-driven education programs. His background spans business development, curriculum design, and instructional systems—particularly in industries where accessible education is critical to career growth.

Kris has led the development of national study systems used across North America, combining technical accuracy with an understanding of how real people learn. His approach centers on clear, actionable content that meets professionals where they are and helps them move forward—fast.

At Healthcare Study Guide, Kris leads product development and content strategy, ensuring that every module reflects clinical standards while remaining approachable, efficient, and easy to use.

Work with the Creators

Bobby and Kris bring over 40 years of combined experience in EdTech, curriculum design, and scalable learning systems. Together, they build platforms that make professional education more accessible, more effective, and more aligned with the demands of today's workforce.

To learn more or connect with the Unity Crest Solutions team, visit **UnityCrestSolutions.com**.



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