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What Nursing Instructors Say About the Authors:

The Item Writing for Success workshop presented by Rinehart & Associates was a great experience. The presenters were informed, helpful, and worked well with the faculty. We are using the test construction hints provided in the workshop to restructure future exams. Cathy Dearman Ph.D., MSN, RN

Dean, School of Nursing, University of South Alabama

The test construction workshop Item Writing for Success presented by Rinehart & Associates was excellent. The faculty were very knowledgeable about their content area. Rosemary Rhodes Ph.D., MSN, RN University of South Alabama

I would enthusiastically recommend the Rinehart & Associates Item Writing for Success workshop to all nursing faculty. The expertise and commitment of the workshop faculty to reach both novice and experienced colleagues was very refreshing! We plan to include them in our faculty development plan every year.

Linda Whitenton, RN, MSN, CS

Nursing Program Director, Okaloosa-Walton Community College, Niceville, Florida

What Nursing Students Say About the Authors:

I passed my NCLEX[®]! I wanted to let you know I passed my NCLEX[®], and I'm now an RN. I can't thank you and Ms. Sloan enough for providing the content material I needed!

Thank You So Much,

Janice Kiefer

I just checked online for my results and I passed! Thank you so much for your help. After being out of school for eight years, I wasn't sure I could do it. Thank you again; your class was wonderful. I feel really blessed to say I passed the NCLEX[®].

Cherri Wilson

Thank you both so much for the great review course; it was just what I needed. I know without it there's no way I would have passed the first time. You guys helped me focus on the things that I really needed to focus on. I am highly recommending your course to everyone I know who is getting ready for boards!

Again, thank you both so much.

Lori Marchant, RN

Thank you so much for your expertise. I just received my NCLEX[®] results and I passed! I was afraid about them because my test only gave me 80 questions. I truly believe that taking your course secured my passing.

Jammie Corona, RN

I studied nothing but your material for two weeks until I felt prepared to take the NCLEX[®]. I took it June 24th, and just received my results today. I passed with 75 questions. I just wanted to say thank you so much for offering your class at Wallace State. Studying your material gave me the confidence I needed to pass. Thanks again!

Sincerely,

Rayena

I wanted to let you know that I took my boards on the 18th, and I found out yesterday that I passed. I really feel like your class helped me a lot, it was an excellent review, and I think that it made the difference.

Sincerely,

Tania Salinas

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NCLEX-PN Fourth Edition

Wilda Rinehart Gardner Diann Sloan Clara Hurd

NCLEX-PN® Exam Cram, Fourth Edition

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About the Authors

Wilda Rinehart Gardner received an Associate Degree in Nursing from Northeast Mississippi Community College in Booneville, Mississippi. After working as a staff nurse and charge nurse, she became a public health nurse and served in that capacity for a number of years. In 1975, she received her nurse practitioner certification in the area of obstetrics-gynecology from the University of Mississippi Medical Center in Jackson, Mississippi. In 1979, she completed her Bachelor of Science degree in Nursing from Mississippi University for Women. In 1980, she completed her Master of Science degree in Nursing from the same university and accepted a faculty position at Northeast Mississippi Community College, where she taught medical-surgical nursing and maternal-newborn nursing. In 1982, she founded Rinehart and Associates Nursing Consultants. For the past 26 years, she and her associates have worked with nursing graduates and schools of nursing to assist graduates to pass the National Council Licensure Exam for Nursing. She has also worked as a curriculum consultant with faculty to improve test construction. Ms. Rinehart has served as a convention speaker throughout the southeastern United States and as a reviewer of medical-surgical and obstetric texts. She has co-authored materials used in seminars presented by Rinehart and Associates Nursing Review.

Dr. Diann Sloan received an Associate Degree in Nursing from Northeast Mississippi Community College, a Bachelor of Science degree in Nursing from the University of Mississippi, and a Master of Science degree in Nursing from Mississippi University for Women. In addition to her nursing degrees, she holds a Master of Science in Counseling Psychology from Georgia State University and a Doctor of Philosophy in Counselor Education, with minors in both Psychology and Educational Psychology, from Mississippi State University. She has completed additional graduate studies in healthcare administration at Western New England College and the University of Mississippi. Dr. Sloan has taught pediatric nursing, psychiatric mental health nursing, and medical-surgical nursing in both associate degree and baccalaureate nursing programs. As a member of Rinehart and Associates Nursing Review, Dr. Sloan has conducted test construction workshops for faculty and nursing review seminars for both registered and practical nurse graduates. She has co-authored materials used in the item-writing workshops for nursing faculty and Rinehart and Associates Nursing Review. She is a member of Sigma Theta Tau nursing honor society.

Clara Hurd received an Associate Degree in Nursing from Northeast Mississippi Community College in Booneville, Mississippi (1975). Her experiences in nursing are clinically based, having served as a staff nurse in medical-surgical nursing. She has worked as an oncology, intensive care, orthopedic, neurological, and pediatric nurse. She received her Bachelor of Science degree in Nursing from the University of North Alabama in Florence, Alabama, and her Master of Science degree in Nursing from the Mississippi University for Women in Columbus, Mississippi. Ms. Hurd is a certified nurse educator. She currently serves as a nurse educator consultant and an independent contractor. Ms. Hurd has taught in both associate degree and baccalaureate degree nursing programs. She was a faculty member of Mississippi University for Women; Austin Peay State University in Clarksville, Tennessee; Tennessee State University in Nashville, Tennessee; and Northeast Mississippi Community College. Ms. Hurd joined Rinehart and Associates in 1993. She has worked with students in preparing for the National Council Licensure Exam and with faculty as a consultant in writing test items. Ms. Hurd has also been a presenter at nursing conventions on various topics, including itemwriting for nursing faculty. Her primary professional goal is to prepare the student and graduate for excellence in the delivery of healthcare.

About the Technical Reviewer

Steven M. Picray is a medical-surgical registered nurse in a major metropolitan hospital. He has also been a Baptist pastor and a computer programmer. He has bachelor's and master's degrees in Theology, a BSN, and is currently pursuing his master's degree in nursing to become a nurse practitioner.

Dedication

We would like to thank our families for tolerating our late nights and long hours. Also, thanks to Gene Sloan for his help without pay. Special thanks to all the graduates who have attended Rinebart and Associates Review Seminars. Thanks for allowing us to be a part of your success.

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Our special thanks to our editors, support staff, and nurse reviewers for helping us to organize our thoughts and experiences into a text for students and practicing professionals. You made the task before us challenging and enjoyable.

We Want to Hear from You!

As the reader of this book, *you* are our most important critic and commentator. We value your opinion and want to know what we're doing right, what we could do better, what areas you'd like to see us publish in, and any other words of wisdom you're willing to pass our way.

We welcome your comments. You can email or write to let us know what you did or didn't like about this book—as well as what we can do to make our books better.

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Introduction

Welcome to the NCLEX-PN[®] Exam Cram

This book will help you prepare to take and pass the Licensure Exam for Practical Nurses. This Introduction discusses the NCLEX® exam in general and how the Exam Cram can help you prepare for the test. It doesn't matter whether this is the first time you're going to take the exam or if you have taken it previously; this book gives you the necessary information and techniques to obtain licensure.

Exam Cram books help you understand and appreciate the subjects and materials you need to pass. The books are aimed at test preparation and review. They do not teach you everything you need to know about the subject of nursing. Instead they present materials you are likely to encounter on the exam.

Using a simple approach, we help you understand the need-to-know information. First, you learn content as it applies to medical-surgical nursing, psychiatric-mental health nursing, obstetric nursing, and pediatric nursing, with an emphasis on pharmacology, skills, and management of these disorders. In a well-organized format, you learn the pathophysiology of the most common problems affecting clients, the treatment of these disorders, and the nursing care required.

The NCLEX-PN® consists of questions from the cognitive levels of knowledge, comprehension, application, and analysis. The majority of questions are written at the application and analysis levels. Questions incorporate the five stages of the nursing process (assessment, diagnosis, planning, implementation, and evaluation) and the four categories of client needs. Client needs are divided into subcategories that define the content within each of the four major categories. These categories and subcategories are

- ► A. Safe, effective care environment:
 - ► Coordinated care: 16–22%
 - ► Safety and infection control:10–16%
- ▶ B. Health promotion and maintenance: 7%–13%
- ► C. Psychosocial integrity:8–14%

- ► D. Physiological integrity:
 - ▶ Basic care and comfort: 7–13%
 - ▶ Pharmacological and parenteral therapy: 11%–17%
 - ▶ Reduction of risk: 10–16%
 - ▶ Physiological adaptation: 7–11%

Taking the Computerized Adaptive Test

Computer Adaptive Testing offers the candidate several advantages. The graduate can schedule the exam at a time that is convenient for him. The Pearson VUE testing group is responsible for administering the exam. Because you might not be familiar with the Pearson VUE testing centers, we recommend that you arrive at least 30 minutes early to acclimate yourself to the surroundings and learn what you need to do while testing at the center. If you are late, you will not be allowed to test. Bring two forms of identification with you, one of which must be a picture ID. Be sure that your form of identification matches your application. You will be photographed and fingerprinted upon entering the testing site, so don't let this increase your stress. The allotted time is 5 hours. The candidate can receive results within approximately 7 days (in some states even sooner). Remember that the exam is written at approximately the 10th-grade reading level so keep a good dictionary handy during your studies.

The Cost of the Exam

The candidate wanting to take the licensure exam must fill out two applications, one to the National Council and one to the state in which she wants to be licensed. A separate fee must accompany each application. There are separate fees for both the National Council and the state where the candidate wishes to be licensed. The candidate should contact his/her state for a list of fees for that specific state. Licensure applications can be obtained on the National Council's website at www.ncsbn.org. Several states are members of the multistate licensure compact. This means that, if you are issued a multistate license, you pay only one fee. This information can also be obtained by visiting the National Council's website at https://www.ncsbn.org/contactbon.htm.

How to Prepare for the Exam

Judicious use of this book, either alone or with a review seminar, such as that provided by Rinehart and Associates, will help you to achieve your goal of becoming a practical nurse. As you review for the NCLEX® Exam, we suggest that you find a location where you can concentrate on the material each day. A minimum of 2 hours per day for at least 2 weeks is suggested. We have provided you with exam alerts, tips, notes, and sample questions, both multiple-choice and alternative items. These questions will acquaint you with the type of questions you will see during the exam. We have also formulated a mock exam, with those difficult management and delegation questions, which you can score to determine your readiness to test. Pay particular attention to the Exam Alerts and the Cram Sheet. Using these will help you gain and retain knowledge and help reduce your stress as you prepare to test.

How to Use This Book

Each topical Exam Cram chapter follows a regular structure and includes cues about important or useful information. Here's the structure of a typical chapter:

- ► **Opening hotlists**—Each chapter begins with a list of terms you'll need to understand and nursing skills you'll need to master. The hotlists are followed by an introductory section to set the stage for the rest of the chapter.
- ► **Topical coverage**—After the opening hotlists, each chapter covers a series of topics related to the chapter's subject title.

Even though the book is structured to the exam, these flagged items are often particularly important:

► Exam Alert—Exam alerts normally stress concepts, terms, or activities that are related to one or more test questions. Anything found in exam alert format is worthy of greater attention on your part. This is what an exam alert looks like:

CAUTION

Exam alerts are provided as a heads up that the content mentioned here might appear on the NCLEX-PN $^{\textcircled{R}}$ exam.

► Notes—Throughout each chapter additional information is provided that, although not directly related to the exam itself, is still useful and will aid your preparation. A sample note is shown here:

NOTE

This is how notes are formatted. Notes direct your attention to important pieces of information that relate to nursing and nursing certification.

► **Tips**—A tip might tell you another way of accomplishing something in a more efficient or time-saving manner. An example of a tip is shown here:

TIP

This is how tips are formatted. Keep your eyes open for these, and you'll learn some interesting nursing tips!

- ► Exam Prep Questions—Although we talk about test questions and topics throughout the book, the section at the end of each chapter presents a series of mock test questions and explanations of both correct and incorrect answers.
- ▶ **Practice Exams**—This book offers two exams written in the NCLEX[®] format. These have been provided to help you evaluate your readiness to test. Answers and rationale to these questions have also been provided. We suggest that you score the exam by subtracting the missed items from the total and dividing the total answered correctly by the total number of questions. This will give you the percentage of correct answers. We suggest that you achieve a score of at least 77% before you schedule your exam.
- ► The CD—The CD includes a testing engine with many practice questions that you should use repeatedly to practice your test-taking skills and measure your level of learning. New alternative format questions have been added to reflect changes in the new test plan. You should be able to correctly answer more than 77% of the questions on the practice tests before trying the real exam. The CD also contains Appendix A, "Things You Forgot," Appendix B, "Need to Know More?" and Appendix C, "Calculations."
- ► Cram Sheet—At the beginning of the book is a tear card we call the Cram Sheet. This is a helpful tool that gives you distilled, compressed facts and is a great tool for last-minute study and review.

About the Book

The topics in this book have been structured using the systems approach to nursing. We believe that a simple approach to learning the disease process, treatments, and diagnostic studies is best. We review material related to diseases of each body system; the related nursing skills; and the diagnostic tests, nutrition, and pharmacology associated with each. We also consider cultural and religious aspects as they relate to the care of clients with specific illnesses.

Aside from being a test preparation book, this book is also useful if you are brushing up on your nursing knowledge. It is an excellent quick reference for the licensed nurse.

Contact the Authors

The authors of this text are interested in you and want you to pass on the first attempt. If, after reviewing with this text, you would like to contact the authors, you can do so at Rinehart and Associates, PO Box 124, Booneville, MS 38829 or by visiting our website at www.nclexreview.net.

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Self-Assessment

Before you take this Self-Assessment exam, let's talk about the concerns you might have:

► Am I required to answer all 205 questions to pass?

No. If you run out of time, the computer looks at the last 60 items. If the candidate is consistently above the pass point on the last 60 items, a passing report is registered.

► What score do I have to make to pass the NCLEX-PN[®] Exam?

There is not a set score. When you were in nursing school, you might have been required to score 75% or 80% to pass and progress onto the next level. The licensure exam is not scored in percentages. The computer looks for consistency above or below the pass point. When the candidate shows this consistency, the computer stops asking questions.

▶ How do they develop the test plan?

Every 3 years a survey is sent out to approximately 4,000 newly licensed nurses. These nurses are asked questions based on the Activity Statements for nursing practice. Based on the results of the survey, the test plan is set by the National Council and members of the Licensure Committee. These members are appointed from representative states.

▶ What types of questions will I be asked?

The majority of questions are multiple-choice; however, alternative items are also a portion of the exam. These items are fill-in-the-blank, identify-a-diagram, place-in-sequence, or check-all-that-apply questions. Some examples of these are shown here:

- 1. Figure the 8-hour intake and output.
- 2. Identify the area where the mitral valve is heard the loudest.
- **3.** Place in sequence the tasks that you would use in the skill of washing your hands.
- 4. Work the math problem.
- 5. Check all that apply to the care of the client after a cardiac catheterization.
- **6.** Exhibit questions can include additional information provided in a drop-down box. Be sure to read all information provided in the drop-down boxes because there will be information that can help you to make the correct choice.
- ▶ Will I have a calculator for math problems?

Yes, a drop-down calculator is provided.

▶ Will I have something to write on in the testing area?

Yes, a magic slate or paper will be provided. Don't worry about them thinking you are cheating. They clean and secure the area after each candidate.

▶ What if I get sick and cannot take my exam?

You have a period of time allowed during which you can cancel your appointment and reschedule. If, however, you do not contact your Pearson VUE testing center in that allotted time and do not attend to take the exam, you forfeit your money and must reapply.

► Can I carry a purse or bag into the testing center?

No, there will be lockers for your use in the testing center. Also, be sure to dress warmly because the area is usually cool.

► Can I take breaks?

There are optional breaks throughout the test.

▶ If I should fail, when could I retest?

The required time for rewriting the exam is 45 days in most states. If you are unsuccessful, you should contact the state where you want to obtain licensure for its required retest time.

Testing Your Exam Readiness

Whether you attend a formal review seminar or use written material such as this book, or use a combination of both, preparation is essential. Costing as much as \$400 a try-pass or fail-you should do everything you can to pass on your first attempt. Spend time each day studying and taking exam questions. The more questions you take, the more prepared you will be. I recommend that you consistently score at least 77% on our practice questions before you attempt to take the exam. With these facts in mind, let's get ready to take the NCLEX-PN® Exam. Good luck!

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Caring for the Client with Disorders of the Respiratory System

Terms you'll need to understand:

- ✓ Acute respiratory failure
- 🗸 Apnea
- 🗸 Asthma
- ✓ Atelectasis
- Bronchitis
- Continuous positive airway pressure (CPAP)
- ✓ Cor pulmonale
- ✓ Cyanosis
- Dyspnea

- ✓ Emphysema
- ✓ Empyema
- ✓ Hemoptysis
- ✓ Hypoxemia
- ✓ Нурохіа
- ✓ Pleural effusion
- ✓ Pleurisy
- Pneumonia
- Pulmonary embolus
- ✓ Tachypnea

Nursing skills you'll need to master:

- Assessing breath sounds
- ✓ Providing tracheostomy care
- ✓ Collecting sputum
- ✓ Teaching proper use of an inhaler
- Performing postural drainage
- ✓ Assisting with thoracentesis

- ✓ Obtaining a throat culture
- Performing venopuncture
- ✓ Administering medication
- ✓ Managing chest tubes
- Maintaining oxygen therapy

Chronic Obstructive Pulmonary Disease

Chronic obstructive pulmonary disease (COPD) exists when prolonged disease or injury has made the lungs less capable of meeting the body's oxygen needs. Examples of COPD include chronic bronchitis, emphysema, and asthma.

Chronic Bronchitis

Chronic bronchitis, an inflammation of the bronchi and bronchioles, is caused by continous exposure to infection and non-infectious irritants, such as cigarette smoke. The condition is most common in those ages 40 to 55. Chronic bronchitis might be reversed with the removal of noxious irritants, although it is often complicated by chronic lung infections. These infections, which are characterized by productive cough and dyspnea, can progress to right-sided heart failure and pulmonary hypertension. Chronic bronchitis and emphysema have similar symptoms that require similar interventions.

Emphysema

Emphysema is the irreversible overdistention of the airspaces of the lungs, which results in destruction of the alveolar walls. Clients with emphysema are classified as *pink puffers* or *blue bloaters*. Pink puffers may complain of exertional dyspnea without cyanosis. Blue bloaters develop chronic hypoxia, cyanosis, polycythemia, cor pulmonale, pulmonary edema, and eventually respiratory failure.

Physical assessment reveals the presence of a barrel chest, use of accessory muscles, coughing with the production of thick mucoid sputum, prolonged expiratory phase with grunting respirations, peripheral cyanosis, and digital clubbing.

In identifying emphysema, a chest x-ray reveals hyperinflation of the lungs with flattened diaphragm. Pulmonary studies show that the residual volume is increased while vital capacity is decreased. Arterial blood gases reveal hypoxemia.

Many symptoms of chronic bronchitis and emphysema are the same; therefore, medications for the client with chronic bronchitis and emphysema include bronchodilators, steroids, antibiotics, and expectorants. Oxygen should be administered via nasal cannula at 2-3 liters/minute. Close attention should be given to nutritional needs, avoidance of respiratory irritants, prevention of respiratory infections, providing oral hygiene, and teaching regarding medications.

CAUTION

When administering antibiotics and aminophylline, a separate IV line should be established for the administration of aminophylline—a bronchodilator—because incompatibilities can exist with some antibiotics and the administration of a bronchodilator. If only one access is established, the SAS (saline, administer drug, saline) procedure should be used.

CAUTION

The client receiving aminophylline should be placed on cardiorespiratory monitoring because aminophylline affects heart rate, respiratory rate, and blood pressure. In this scenario, toxicity can occur rapidly. Toxic symptoms include nausea, vomiting, tachycardia, palpitations, hypotension, shock, coma, and death.

CAUTION

The therapeutic range for aminophylline is as follows: 10-20 mcg/mL.

Asthma

Asthma is the most common respiratory condition of childhood. Intrinsic (nonallergenic) asthma is precipitated by exposure to cold temperatures or infection. Extrinsic (allergenic or atopic) asthma is often associated with childhood eczema. Both asthma and eczema are triggered by allergies to certain foods or food additives. Introducing new foods to the infant one at a time helps decrease the development of these allergic responses. Easily digested, hypoallergenic foods and juices should be introduced first. These include rice cereal and apple juice.

Symptoms of asthma include expiratory wheeze; shortness of breath; and a dry, hacking cough, which eventually produces thick, white, tenacious sputum. In some instances an attack may progress to status asthmaticus, leading to respiratory collapse and death.

Management of the client with asthma includes maintenance therapy with mast cell stabilizers and leukotriene modifiers. Treatment of acute asthmatic attacks includes the administration of oral or inhaled short-term or long-term B2 agonist and anti-inflammatories as well as supplemental oxygen. Methylxanthines, such as aminophylline, are rarely used for the treatment of asthma. These drugs, which can cause tachycardia and dysrhythmias, are administered as a last resort. Antibiotics are frequently ordered when a respiratory infection is present. 44

Chapter 3: Caring for the Client with Disorders of the Respiratory System

Acute Respiratory Infections

Acute respiratory infections, such as pneumonia, are among the most common causes of death from infectious diseases in the United States. Pneumonia is a major cause of death in persons over age 65.

Pneumonia

Pneumonia is an inflammation of the parenchyma of the lungs. Causative organisms include bacteria, viruses, and fungi. Some of these organisms are listed here:

- Pneumococcus
- ► Group A beta hemolytic streptococcus
- Staphylococcus
- Pseudomonas
- ► Influenza types A and B
- Cytomegalovirus
- Aspergillus fungiatus
- Pneumocystis carinii

Presenting symptoms depend on the causative organism. The client with viral pneumonia tends to have milder symptoms, whereas the client with bacterial pneumonia might have chills and fever as high as 103°. Clients with cytomegalovirus, pneumocystis carinii, or aspergillus will be acutely ill. General symptoms of pneumonia include

- Hypoxia
- ► Tachypnea
- ▶ Tachycardia
- ▶ Chest pain
- ► Malaise
- ► Fever
- Confusion (especially in the elderly)

Care of the client with pneumonia depends on the causative organism. The management of bacterial pneumonias includes antibiotics, antitussives, antipyretics, and oxygen. Antibiotics that may be ordered include penicillin G, tetracycline, garamycin, and erythromycin. Viral

pneumonias do not respond to antimicrobial therapy but are treated with antiviral medication, such as Symmetrel (amantadine). Fungal pneumonias are treated with antifungal medication such as Nizoral (ketoconozole). Additional therapies for the client with pneumonia include providing for fluid and nutritional needs, obtaining frequent vital signs, and providing oral hygiene. Supplemental oxygen and chest percussion and drainage should be performed as ordered by the physician.

CAUTION

Some medications used in the treatment of pneumonia require special attention:

- Tetracycline—Should not be given to women who are pregnant or to small children because of the damage it can cause to developing teeth and bones.
- ► Garamycin—An aminoglycoside, it is both ototoxic and nephrotoxic. It is important to monitor the client for signs of toxicity. Serum peak and trough levels are obtained according to hospital protocol.

Peak levels for garamycin are drawn 30 minutes after the third or fourth IV or IM dose. Trough levels for garamycin are drawn 30 minutes before the third or fourth IV or IM dose. The therapeutic range for garamycin is 4–10 mcg/mL.

Pleurisy

Pleurisy, an inflammation of the pleural sac, can be associated with upper respiratory infection, pulmonary embolus, thoracotomy, chest trauma, or cancer. Symptoms include

- ▶ Sharp pain on inspiration
- ► Chills
- ► Fever
- ► Cough
- ► Dyspnea

Chest x-ray reveals the presence of air or fluid in the pleural sac. Management of the client with pleurisy includes the administration of analgesics, antitussives, antibiotics, and oxygen therapy. The presence of pleural effusion can require the client to have a thoracentesis. It is the nurse's responsibility to prepare the client and monitor for signs of complications related to the procedure. The nurse should assess the client's vital signs, particularly changes in respirations and blood pressure, which can reflect impending shock from fluid loss or bleeding. The nurse should also observe the client for signs of a pneumothorax.

Nursing Skill: Positioning the client for a thoracentesis

 Sitting on the edge of the bed with feet supported and with the head and arms resting on a padded over bed table Chapter 3: Caring for the Client with Disorders of the Respiratory System

- ► Sitting astride a chair with the arms and head resting on the back of the chair
- ► Lying on the unaffected side with the head of the bed elevated 30 to 45 degrees (for clients unable to sit upright)

Tuberculosis

Tuberculosis (TB) is a highly contagious respiratory infection caused by the mycobacterium tuberculosis. It is transmitted by droplets from the respiratory tract. Airborne precautions, as outlined by the Centers for Disease Control (CDC), should be used when caring for the client with tuberculosis.

NOTE

Standard precautions and transmission-based precautions are provided in Appendix A, "Things You Forgot," which is on the CD.

Diagnosis includes the administration of the Mantoux skin test, sometimes referred to as the Purified Protein Derivative (PPD), which is read in 48–72 hours. The presence of a positive Mantoux test indicates exposure to TB but not active infection. A chest x-ray should be ordered for those with a prior positive skin test. A definite diagnosis of TB is made if the sputum specimen is positive for the tubercle bacillus. Factors that can cause a false positive TB skin test include nontuberculous mycobacterium and inoculation with BCG vaccine. Factors that can cause a false negative TB skin test include anergy (a weakened immune system), recent TB infection, age, vaccination with live viruses, overwhelming TB, and poor testing technique. Management of the client with TB includes the use of ultraviolet light therapy and the administration of antimycobacterial drugs. Medication regimens can consist of several drugs including INH (isoniazid), Rifadin (rifampin), Myambutol (ethamubutol), and PZA (pyrazinamide). The use of multiple drug therapy has reduced treatment time to as little as six months for clients who are compliant; however, drug resistant forms may require longer treatment periods. Clients are no longer considered infectious after three negative sputum samples have been obtained. Surgical management may include a wedge resection or lobectomy. Household contacts are treated with isoniazid.

Influenza

Influenza is an acute highly contagious viral infection that primarily affects the upper respiratory tract and is sometimes complicated by the development of pneumonia. Influenza is caused by one of three types of *Myxovirus influenzae*. Infection with one strain produces immunity to only that strain; therefore, annual immunization is needed to protect against the strain projected to be prevalent that year. Symptoms of influenza include

- ► Chills and fever greater than 102° F.
- ► Sore throat and laryngitis
- ► Runny nose
- ► Muscle aches and headache

Complications associated with influenza include pneumonia, exacerbations of chronic obstructive pulmonary disease (COPD), and myositis. More serious complications include pericarditis and encephalitis. The elderly, children, and those with chronic illness are more likely to develop severe complications; therefore, it is recommended that these clients receive annual influenza immunization. The vaccine is given in the fall, prior to the onset of annual outbreaks that occur in the winter months. The vaccine is produced in eggs, so it should not be given to anyone who is allergic to egg protein. Children age two and older as well as adults can receive the nasal vaccine.

Treatment of influenza is aimed at controlling symptoms and preventing complications. Bed rest and increased fluid intake are important interventions during the acute phase. Decongestant nasal sprays, antitussives with codeine, and antipyretics help make the client more comfortable. Antibiotics are indicated if the client develops bacterial pneumonia. Clients with influenza as well as nonimmunized persons who have been exposed to influenza might receive chemoprophylaxis if an outbreak occurs. Antiviral medication such as Relenza (zanamivir) and Tamiflu (oseltamivir) are used in both the prevention and treatment of influenza A and B and can be used to reduce the duration and severity of symptoms. Symmetrel (amantadine) or Flumadine (rimantadine) are also used to prevent or decrease symptoms of the flu.

Acute Respiratory Failure

Acute respiratory failure can be defined as the lungs' failure to meet the body's oxygen requirements. One acute respiratory condition you need to be familiar with is acute respiratory distress syndrome, commonly known as ARDS.

Acute Respiratory Distress Syndrome

Acute respiratory distress syndrome, commonly known as *ARDS* or *noncardiogenic pulmonary edema*, occurs mostly in otherwise healthy persons. ARDS can be the result of anaphylaxis, aspiration, pulmonary emboli, inhalation burn injury, or complications from abdominal or thoracic surgery. ARDS may be diagnosed by a chest x-ray that will reveal emphysematous changes and infiltrates that give the lungs a characteristic appearance described as ground glass. Assessment of the client with ARDS reveals

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Chapter 3: Caring for the Client with Disorders of the Respiratory System

- ► Hypoxia
- ► Sternal and costal retractions
- ▶ Presence of rales or rhonchi
- Diminished breath sounds
- Refractory hypoxemia

Care of the client with ARDS involves

- Use of assisted ventilation
- Monitoring of arterial blood gases
- Attention to nutritional needs
- ► Frequent change in position, placement in high Fowler's position, prone position, or use of specialized beds to minimize consolidation of infiltrates in large airways
- ► Investigational therapies, including the use of vitamins C and E, aspirin, interleukin, and surfactant replacements

Pulmonary Embolus

Pulmonary embolus refers to the obstruction of the pulmonary artery or one of its branches by a clot or some other undissolved matter, such as fat or a gaseous substance. Clots can originate anywhere in the body but are most likely to migrate from a vein deep in the legs, pelvis, kidney, or arms. *Fat emboli* are associated with fractures of the long bones, particularly the femur. *Air emboli*, which are less common, can occur during the insertion or removal of a central line. Common risk factors for the development of pulmonary embolus include immobilization, fractures, trauma, cigarette smoking, use of oral contraceptives, and history of clot formation.

TIP

Remember the three Fs associated with fat emboli:

- ► Fat
- ► Femur
- Football player

Fat emboli are associated with fracture of long bones (such as a fractured femur); most fractured femurs occur in young men 18–25, the age of most football players.

Symptoms of a pulmonary embolus depend on the size and location of the clot or undissolved matter. Symptoms include

- ► Chest pain
- Dyspnea
- Syncope
- Hemoptysis
- ▶ Tachycardia
- Hypotension
- ► Sense of apprehension
- ▶ Petechiae over the chest and axilla
- Distended neck veins

Diagnostic tests to confirm the presence of pulmonary embolus include chest x-ray, pulmonary angiography, lung scan, and ECG to rule out myocardial infarction. Management of the client with a pulmonary embolus includes

- ▶ Placing the client in high Fowler's position
- Administering oxygen via mask
- ▶ Giving medication for chest pain
- ► Using thrombolytics/anticoagulants

Antibiotics are indicated for those with septic emboli. Surgical management using umbrellatype filters is indicated for those who cannot take anticoagulants, as well as for the client who has recurrent emboli while taking anticoagulants. Clients receiving anticoagulant therapy should be observed for signs of bleeding. PT, INR, and PTT are three tests used to track the client's clotting time. You can refer to Chapter 13, "Caring for the Client with Disorders of the Cardiovascular System," for a more complete discussion of these tests.

CAUTION

Streptokinase is made from beta strep; therefore, clients with a history of strep infections might respond poorly to anticoagulant therapy with streptokinase, because they might have formed antibodies.

Streptokinase is not clot specific; therefore, the client might develop a tendency to bleed from incision or injection sites.

Chapter 3: Caring for the Client with Disorders of the Respiratory System

Emerging Infections

The CDC (1994) defines *emerging infections* as diseases of infectious origin with human incidences occurring within the past two decades. Emerging illnesses are likely to increase in incidence in the near future. Two respiratory conditions listed as emerging infections are Severe Acute Respiratory Syndrome (SARS) and Legionnaire's disease.

Severe Acute Respiratory Syndrome

Severe Acute Respiratory Syndrome (SARS) is caused by a coronavirus. Symptoms include

- ► Fever
- ► Dry cough
- ► Hypoxemia
- ▶ Pneumonia

In identifying SARS, a chest x-ray reveals "ground glass" infiltrates with bilateral consolidation occurring sometime within 24–48 hours, thus suggesting the rapid development of acute respiratory failure. SARS was first reported in Asia in February 2003. The disease spread to more than two dozen countries in Europe, Asia, North America, and South America before being contained in that same year. A history of recent travel is significant in the client's history.

The SARS virus can be found in nasopharyngeal and oropharyngeal secretions, blood, and stool. Diagnostic tests for SARS include

- ► Sputum cultures for Influenza A, B, and RSV
- ► Serum tests to detect antibodies IgM and IgG
- ► Reverse transcriptase polymerase chain reaction tests performed to detect RNA of SARS CoV

Two tests on two different specimens must be positive to confirm the diagnosis. Test results are considered negative if no SARS CoV antibodies are found 28 days after the onset of symptoms.

The client suspected of having SARS should be cared for using airborne and contact precautions. Management includes the use of antibiotics to treat secondary or atypical pneumonia. Antivirals or retrovirals can be used to inhibit replication. Respiratory support, closed system for suctioning, and the use of surfactant replacement may be ordered.

Legionnaire's Disease

Legionnaire's disease is caused by gram negative bacteria found in both natural and manmade water sources. Bacterial growth is greater in stored water maintained at temperatures ranging from 77° to 107° F. Risk factors include

- ► Immunosuppression
- Diabetes
- Pulmonary disease

Legionnaire's involves the lungs and other organs. The symptoms include

- Productive cough
- Dyspnea
- Chest pain
- ► Diarrhea
- ► Fever

Diagnostic tests include a urinary antigen test that remains positive after initial antibiotic therapy. Management includes the use of antibiotics, oxygen, provision of nutrition, and hydration. The drug of choice for treating Legionnaire's disease is azithromycin. Transmission-based precautions are not necessary when caring for the client with Legionnaire's disease, because there is no indication of human to human transmission.

Diagnostic Tests for Review

These are simply some of the tests that are useful in diagnosing pulmonary disorders. You should review the normal lab values as well as any special preparations for the client undergoing those tests. In addition, think about the care given to clients after the procedures have been completed. For instance, the client who has undergone a bronchoscopy will have a depressed gag reflex, which increases the chance of aspiration. No food or fluid should be given until the gag reflex returns. The tests for diagnosing pulmonary disorders are as follows:

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Chapter 3: Caring for the Client with Disorders of the Respiratory System

- ► CBC
- Chest x-ray
- Pulmonary function tests
- Lung scan
- Bronchoscopy

Pharmacology Categories for Review

The client with a respiratory disorder should be managed with several categories of medications. The client with an acute respiratory condition, such as bacterial pneumonia, is given an antibiotic to fight the infection, antipyretic medication for fever and body aches, and an antitussive for relief of cough. The client with a chronic respiratory condition may receive many of the same medications, with the addition of a steroid or bronchodilator. The following list contains the most commonly prescribed categories of medications used to treat clients with respiratory conditions:

- Antibiotics
- Antivirals
- Antituberculars
- Antitussives
- Bronchodilators
- ► Expectorants
- Leukotriene modifiers
- Mast-cell stabilizers
- Steroids

Exam Prep Questions

- **1.** When performing an assessment on the client with emphysema, the nurse finds that the client has a barrel chest. The alteration in the client's chest is due to:
 - O A. Collapse of distal alveoli
 - **O B.** Hyperinflation of the lungs
 - O C. Long-term chronic hypoxia
 - O **D.** Use of accessory muscles
- 2. The nurse notes that a client with COPD demonstrates increased dyspnea in certain positions. Which position is most likely to lessen the client's dyspnea?
 - **O A.** Lying supine with a single pillow
 - **O B.** Standing or sitting upright
 - **O C.** Side lying with the head elevated
 - O D. Lying with head slightly lowered
- **3.** When reviewing the chart of a client with long standing lung disease, the nurse should pay close attention to the results of which pulmonary function test?
 - O A. Residual volume
 - O B. Total lung capacity
 - O C. FEV1/FVC ratio
 - O **D.** Functional residual capacity
- **4.** The physician has ordered O₂ at 3 liters/minute via nasal cannula. O₂ amounts greater than this are contraindicated in the client with COPD because:
 - **O A.** Higher concentrations result in severe headache.
 - **O B.** Hypercapnic drive is necessary for breathing.
 - **O C.** Higher levels will be required later for pO_2 .
 - **D.** Hypoxic drive is needed for breathing.

Chapter 3: Caring for the Client with Disorders of the Respiratory System

- 5. The client taking a bronchodilator tells the nurse that he is going to begin a smoking cessation program when he is discharged. The nurse should tell the client to notify the doctor if his smoking pattern changes because he will:
 - **O A.** Need his medication dosage adjusted
 - **O B.** Require an increase in antitussive medication
 - **O C.** No longer need annual influenza immunization
 - **D.** Not derive as much benefit from inhaler use
- **6.** Lab results indicate that the client's serum aminophylline level is 17 mcg/mL. The nurse recognizes that the aminophylline level is:
 - **O A.** Within therapeutic range
 - **O B.** Too high and should be reported
 - O C. Questionable and should be repeated
 - **O D**. Too low to be therapeutic
- 7. The morning weight for a client with emphysema indicates that the client has gained 5 pounds in less than a week, even though his oral intake has been modest. The client's weight gain may reflect which associated complication of COPD?
 - O A. Polycythemia
 - O **B.** Cor pulmonale
 - **O C.** Left ventricular failure
 - O **D.** Compensated acidosis
- **8.** The nurse is teaching the client the appropriate way to use a metered dose inhaler. Which observation indicates the client needs additional teaching?
 - O A. The client takes a deep breath while depressing the canister
 - O **B.** The client holds the canister two finger widths from the mouth
 - O **C.** The client waits 30 seconds before repeating the inhalation
 - **D.** The client exhales slowly and deeply

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- **9.** The client with COPD may lose weight despite having adequate caloric intake. When counseling the client in ways to maintain an optimal weight, the nurse should tell the client to:
 - O A. Continue the same caloric intake and decrease his activity level
 - O B. Increase his activity level to stimulate his appetite
 - O C. Increase the amount of complex carbohydrates and decrease the amount of fat, intake
 - **D.** Decrease the amount of complex carbohydrates while increasing calories, protein, fat, vitamins, and minerals
- **10.** The client has been receiving garamycin 65 mg IVPB every 8 hours for the past 6 days. Which lab result indicates an adverse reaction to the medication?
 - O **A.** WBC 7500
 - O B. Serum glucose 92
 - O **C.** Protein 3.5
 - O D. Serum Creatinine 2.0

Answer Rationales

- 1. Answer B is correct. Clients with emphysema develop a barrel chest due to the trapping of air in the lungs, causing them to hyperinflate. Answers C and D are common in those with emphysema but do not cause the chest to become barrel shaped. Answer A does not occur in emphysema.
- 2. Answer B is correct. The client with chronic obstructive pulmonary disease has increased difficulty breathing when lying down. His respiratory effort is improved by standing or sitting upright or by having the bed in high Fowler's position. Answers A, C, and D do not alleviate the client's dyspnea; therefore they are incorrect.
- **3.** Answer C is correct. The FEV1/FVC ratio indicates disease progression. As COPD worsens, the ratio of FEV1 to FVC becomes smaller. Answers A and B reflect loss of elastic recoil due to narrowing and obstruction of the airway. Answer D is increased in clients with obstructive bronchitis.
- **4.** Answer D is correct. In clients with COPD, respiratory effort is stimulated by hypoxemia. Answers A and C are incorrect because higher levels would rob the client of the drive to breathe. Answer B is an incorrect statement.
- 5. Answer A is correct. Changes in smoking patterns should be discussed with the physician because they have an impact on the amount of medication needed. Answer B is incorrect because clients with COPD are placed on expectorants, not antitussives. Answer C is incorrect because an annual influenza vaccine is recommended for all those with lung disease. Answer D is incorrect because benefits from inhaler use should be increased when the client stops smoking.

Chapter 3: Caring for the Client with Disorders of the Respiratory System

- Answer A is correct. The therapeutic range for aminophylline is 10–20 mcg/mL. Answers B and D are incorrect. There are no indications that the results are questionable; therefore, repeating the test as offered by answer C is incorrect.
- Answer B is correct. Cor pulmonale, or right sided heart failure, is a possible complication of emphysema. Answers A and D do not cause weight gain, so they're incorrect. Answer C would be reflected in pulmonary edema, so it's incorrect.
- 8. Answer C is correct. The client should wait 60 seconds before repeating the inhalation. Repeating the inhalation in 30 seconds indicates that the client needs further teaching. Answers A, B, and D indicate correct use of a metered dose inhaler; therefore, they are incorrect choices.
- **9.** Answer D. The client with COPD needs additional calories, protein, fat, vitamins, and minerals. Answer A is incorrect because the client needs more calories.
- **10.** Answer D is correct. The serum creatinine is elevated, indicating an adverse effect of the medication on the kidneys. Answers A, B, and C are within normal limits.

Suggested Reading and Resources

- ► Centers for Disease Control and Prevention: www.cdc.gov
- ► American Lung Association: www.lungusa.org
- ▶ The Pathology Guy: www.pathguy.com
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- Brunner, L., and D. Suddarth. *Textbook of Medical-Surgical Nursing*. 12th ed. Philadelphia: Lippincott Williams & Wilkins, 2009.
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