

Karen K. Gittings • Rhonda M. Brogdon • Frances H. Cornelius

AN UNFOLDING
CASE STUDY
REVIEW

MEDICAL- SURGICAL NURSING TEST SUCCESS



- Case studies offer relief from endless Q & A review
- Encourages “think like a nurse” approach
- Utilizes all types of NCLEX-style questions
- Web links to supporting multimedia content

eResources
Provided to Supplement

**Medical-Surgical Nursing Test Success:
An Unfolding Case Study Review**

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1

Nursing Care of the Patient With Cardiovascular Disease

- e** **eResource 1-1:** Heart disease risk calculators can be utilized as an effective patient teaching tool:

 - University of Maryland Heart Center: <http://goo.gl/UaNIA>
 - MedCalc, a comprehensive library of medical calculators, available online and as “apps” for mobile devices.
 - Online: [Pathway: www.medcalc.com → select “Cardiology” → select “Heart Disease Risk” and enter patient data]
 - Mobile device: [MedCalc → select “Categories” → select “Cardiology” → select “Framingham CV Risk” and enter patient data]

- e** **eResource 1-2:** To reinforce her patient teaching, the nurse shows Edwin two brief videos:

 - *Understanding High Blood Pressure—The Risks:* <http://youtu.be/FrDfzIFcUT0>
 - *5 Major Effects of High Blood Pressure:* <http://youtu.be/ICLHbwBBvFc>

- e** **eResource 1-3:** To supplement dietary teaching, the nurse provides the American Heart Association’s guide for Reading Food Nutrition Labels: <http://goo.gl/0wY0i>

- e** **eResource 1-4:** Web-based resources for normal blood values:

 - Nursing Central: <http://goo.gl/qosiq>
 - University of Minnesota: <http://goo.gl/sTM1A>

- e** **eResource 1-5:** To supplement patient teaching regarding managing risk factors, the nurse connects Randy to the American Heart Association’s Heart Risk Calculator: <http://goo.gl/fHms0>

- e** **eResource 1-6:** To supplement your understanding of this medication, consult Medscape on your mobile device. To download the “app,” go to <http://goo.gl/ObHsx>: [Pathway: Medscape → enter “nitroglycerin” in the search field → scroll down to select “nitroglycerin sublingual” to access content]

- e** **eResource 1-7:** Randy has questions about cholesterol so the nurse shows him a video, *Understanding Cholesterol*: <http://youtu.be/hjv5OnbcjE8>
- e** **eResource 1-8:** To supplement patient diet teaching, the nurse shows Randy a video, *The Foods That Lower LDL*: <http://youtu.be/AOcky3fUx5k>
- e** **eResource 1-9:** To learn more about adverse effects and precautions related to pravastatin, refer to Epocrates:

 - On mobile device: [Pathway: Epocrates → select “Drugs” → enter “pravastatin” in the search field → select “pravastatin” again → view “Adverse Reactions” and “Contraindications/Cautions”]
 - Online: [Pathway: <https://online.epocrates.com> → enter “pravastatin” in the search field → select “pravastatin” again → view “Adverse Reactions” and “Contraindications/Cautions”]
- e** **eResource 1-10:** To practice interpreting ECGs:

 - Visit the ECG Library: <http://goo.gl/fKVd>
 - Play ECG Simulator: <http://goo.gl/icSgp>
- e** **eResource 1-11:** To learn more about PCI, refer to MerckMedicus Online on your mobile device: [Pathway: www.merckmedicus.com → select “Merck Manual” → select “Merck Manual for Healthcare Professionals” → select “index” → select “P” and enter “percutaneous coronary intervention” in the search field to access and review content]
- e** **eResource 1-12:** Use MedCalc to verify your answer: [Pathway: www.medcalc.com → select “Fluids/Electrolytes” → select “IV Rate and enter information into fields”]
- e** **eResource 1-13:** To learn more about furosemide, consult Skyscape’s RxDrugs on your mobile device (www.skyscape.com): [Pathway: Skyscape → select “RxDrugs” → enter “lasix” into the search field → select “furosemide [IM/IV]” to review content]
- e** **eResource 1-14:** To learn more about dobutamine and precautions, consult Skyscape’s RxDrugs on your mobile device: [Pathway: Skyscape → select “RxDrugs” → enter “dobutamine” into the search field → scroll down to view Warnings/precautions]
- e** **eResource 1-15:** Use MedCalc’s Acid–Base Online Calculator to verify your understanding: [Pathway: www.medcalc.com → select “Pulmonary” → select “ABG Calculator” and enter patient data]

- eResource 1-16:** To learn more about digoxin and what the nurse should discuss with James, consult Skyscape’s RxDrugs on your mobile device: [Pathway: Skyscape → select “RxDrugs” → enter “Digoxin” into the search field → select “Digoxin [Oral]” → scroll down to view content]
- eResource 1-17:** To learn more about ECG interpretation, view:
■ *Intro EKG Interpretation Part 1:* http://youtu.be/ex1k_MPF-w4
■ *Intro EKG Interpretation Part 2:* <http://youtu.be/ecTM2O940mg>
- eResource 1-18:** To verify that this is a safe dose to administer, consult Epocrates on your mobile device: [Pathway: Epocrates → select “Drugs” → enter “Cardizem” into the search field → select “Adult Dosing” → scroll down to view treatment of atrial fibrillation/flutter]
- eResource 1-19:** Use MedCalc to verify your calculations:
■ Online: [Pathway: www.medcalc.com → select “Fluids/Electrolytes” → select “IV Rate” and enter infusion order]
■ Mobile device [MedCalc → enter “infusion” into the search field → select “Infusion Management” → enter infusion order]
- eResource 1-20:** To help Marilyn understand what atrial fibrillation is and how it is treated, the nurse shows her a video, *Atrial Fibrillation Symptoms & Treatments*: <http://youtu.be/BZ1vMLPrHnk>
- eResource 1-21:** To verify that these drugs are safe in combination, consult Epocrates on your mobile device: [Pathway: Epocrates → select “Interaction Check” → enter all three medications and review interactions. Consider patient teaching that is warranted]
- eResource 1-22:** To supplement the information provided to Marilyn, the nurse shows her two videos:
■ *Warfarin/Coumadin Use, Part 1:* <http://youtu.be/4J9luqNhEvg>
■ *Warfarin/Coumadin Use, Part 2:* <http://youtu.be/YUVi0CXXK28E>
- eResource 1-23:** Web-based resources for normal blood values:
■ Nursing Central: <http://goo.gl/qosiq>
■ University of Minnesota: <http://goo.gl/sTM1A>
- eResource 1-24:** Consult Epocrates Online for detailed information related to evaluation and management of shock: [Pathway: <https://online.epocrates.com> → select “Diseases” → enter “shock” in the search field → select “septic shock” and review content]

- e** **eResource 1-25:** To learn more about norepinephrine, consult Skyscape's RxDrugs on your mobile device: [Pathway: Skyscape → select "RxDrugs" → enter "norepinephrine" into the search field → review content]
- e** **eResource 1-26:** Use MedCalc to verify your answer: [Pathway: www.medcalc.com → select "Fluids/Electrolytes" → select "IV Rate" and enter information into fields]
- e** **eResource 1-27:** To check your calculations, use Skyscape's Archimedes on your mobile device: [Pathway: Archimedes → enter "ABI" into search field and enter patient data]
- e** **eResource 1-28:** To learn more about Ankle-Brachial Index Measurement, go to Medscape: [Pathway: www.medscape.org → Under the tab "Reference," select "References & Tools" → enter "ABI" into the search field → select "overview," "periprocedural care," and view the multimedia presentation of the procedure]
- e** **eResource 1-29:** Consult Epocrates Online for detailed information related to Marcey's presentation:
- Diagnostic Tests: [Pathway: <https://online.epocrates.com> → select "Diseases" → enter "peripheral vascular disease" in the search field → under "Diagnosis" select "Tests" and review content]
 - Treatment and prevention for Marcey: [Pathway: <https://online.epocrates.com> → select "Diseases" → enter "peripheral vascular disease" in the search field → under "Treatment" select and review "Tx Details," "Emerging Tx and "Prevention," and review content]
- e** **eResource 1-30:** To help Marcey, the nurse provides additional resources for risk reduction:
- Smokefree.gov mobile smoking cessation apps: <http://smokefree.gov/apps>
 - CDC's Podcast, *Smoking and Older Adults*: <http://goo.gl/EjKu5>
- e** **eResource 1-31:** To further explain the effects of nicotine on the body, the nurse shows Marcey a video, *Nicotine & Smoking Facts: How Do Cigarettes Affect the Body?* <http://youtu.be/YtodWKffYjw>
- e** **eResource 1-32:** To learn more about VTE and its treatment, visit Medscape:
- Online: [Pathway: www.medscape.org → Under the tab "Reference," select "References & Tools" → enter "Deep Venous Thrombosis" into the search field → review content]
 - On your mobile device: [Pathway: Medscape → enter "Deep Venous Thrombosis" into the search field → review content]

- e** **eResource 1-33:** Consult Epocrates on your mobile device to review safety and monitoring guidelines: [Pathway: Epocrates → enter “Lovenox” into search field → select “Safety/Monitoring.” Also review Contraindications/Cautions as well as Adverse Reactions]

- e** **eResource 1-34:** Consult EpocratesOnline to review content related to prevention: [Pathway: <https://online.epocrates.com> → select the “Diseases” tab and enter “Deep Vein Thrombosis” into the search field → Under “Treatment” select “Prevention.” Also review Patient Teaching which is located under “Follow-Up”]

2

Nursing Care of the Patient With Pulmonary Disease

- e** **eResource 2-1:** Use MedCalc's Acid-Base Online Calculator to verify your understanding: [Pathway: www.medcalc.com → select "Pulmonary" → select "ABG Calculator" and enter patient data]

- e** **eResource 2-2:** To learn more about atelectasis and its diagnosis, visit Medscape:
 - Online: [Pathway: www.medscape.org → Under the tab "Reference," select "References & Tools" → enter "atelectasis" into the search field → review "Presentation," "DDx" and "Workup"]
 - On your mobile device: [Pathway: Medscape → enter "atelectasis" into the search field → review "Presentation," "DDx" and "Workup"]

- e** **eResource 2-3:** To supplement patient teaching, the nurse shows Victor a video tutorial, *Atelectasis*: <http://youtu.be/FhFpbZcIIZQ>

- e** **eResource 2-4:** The nurse shows Victor a video demonstrating the use of the incentive spirometer: <http://youtu.be/cWBj5o5NblY>

- e** **eResource 2-5:** To hear samples of lung sounds, go to:
 - *Crackles—Early Inspiratory (Rales)*: <http://goo.gl/gUx17>
 - *Crackles—Fine (Rales)*: <http://goo.gl/vBr2h>
 - *Crackles—Coarse (Rales)*: <http://goo.gl/e2FR1>

- e** **eResource 2-6:** To learn more about risk for pneumonia, consult the Pneumonia Severity Index Calculator: <http://goo.gl/CgxSN>

- e** **eResource 2-7:** To verify that this is the correct dosage, consult Skyscape's RxDrugs on your mobile device: [Pathway: RxDrugs → enter "levaquin" into the search field and check adult dosing]

- e** **eResource 2-8:** Consult Epocrates to learn/review safety and monitoring guidelines related to Levaquin: [Pathway: Epocrates → select "Levaquin" → select "Safety/Monitoring." Also review Contraindications/Cautions as well as Adverse Reactions for further patient teaching]

- e** **eResource 2-9:** To learn more about respiratory wheezing, listen to the Merck Manual of Patient Symptoms Podcast, *Wheezing*: <http://goo.gl/BA2cb>
- e** **eResource 2-10:** To hear other samples of wheezing lung sounds, go to:
- *Wheeze*: <http://goo.gl/692Fm>
 - *Wheezes—Expiratory*: <http://goo.gl/azJjo>
 - *Wheezes—Monophonic*: <http://goo.gl/P64fE>
 - *Wheezes—Polyphonic*: <http://goo.gl/G3PDI>
- e** **eResource 2-11:** Consult Epocrates Online to review content related to prevention of asthma: [Pathway: <https://online.epocrates.com> → under the “Diseases” tab, enter “asthma” in the search field → select “Asthma in adults” Under “Diagnosis” select “Approach”]
- e** **eResource 2-12:** To learn more about bronchodilators, go to Epocrates Online to review content related to prevention: [Pathway: <https://online.epocrates.com> → under the “Diseases” tab, enter “asthma” in the search field → select “Asthma in adults” Under “Diagnosis” select “Approach”]
- e** **eResource 2-13:** To learn more about asthma and its triggers, visit Medscape:
- Online: [Pathway: www.medscape.org → Under the tab “Reference,” select “References & Tools” → enter “asthma” into the search field → under the “Overview” tab, review “Pathophysiology” and “Etiology”]
 - On your mobile device, you can access the same information: [Pathway: Medscape → enter “asthma” into the search field → under the “Overview” tab, review “Pathophysiology” and “Etiology”]
- e** **eResource 2-14:** To reinforce patient teaching, the nurse plays the CDC podcast, *Asthma—What You Need to Know*: <http://goo.gl/KCpa8>
- e** **eResource 2-15:** Use MedCalc’s Acid–Base Online Calculator to verify your understanding: [Pathway: www.medcalc.com → select “Pulmonary” → select “ABG Calculator” and enter patient data]
- e** **eResource 2-16:** To help Caleb understand what he can do to manage his asthma, the nurse shows him a video, *Living With and Managing Asthma*: <http://youtu.be/ImYZd6KxO8c>

- e** **eResource 2-17:** To learn more about COPD and its diagnosis, visit Medscape:
- Online: [Pathway: www.medscape.org → Under the tab “Reference,” select “References & Tools” → enter “COPD” into the search field → Under “Overview,” select “etiology”]
 - On your mobile device: [Pathway: Medscape → enter “COPD” into the search field → Under “Overview,” select “etiology”]
- e** **eResource 2-18:** Use MedCalc to verify your answer: [Pathway: www.medcalc.com → select “Fluids/Electrolytes” → select “IV Rate” and enter information into fields]
- e** **eResource 2-19:** To learn more about oxygen therapy for a patient with COPD, view *Administering Oxygen in COPD*: <http://youtu.be/6h0Ea4Tc-Qk>
- e** **eResource 2-20:** Use MedCalc’s Acid–Base Online Calculator to verify your understanding: [Pathway: www.medcalc.com → select “Pulmonary” → select “ABG Calculator” and enter patient data]
- e** **eResource 2-21:** To learn more about COPD and its diagnosis, visit Medscape:
- Online: [Pathway: www.medscape.org → Under the tab “Reference,” select “References & Tools” → enter “COPD” into the search field → Under “Treatment,” select “Oxygen Therapy and Hypoxemia”]
 - On your mobile device: [Pathway: Medscape → enter “COPD” into the search field → Under “Treatment,” select “Oxygen Therapy and Hypoxemia”]
- e** **eResource 2-22:** To learn more about breathing techniques for a patient with COPD, view *Managing an Episode of Acute Shortness of Breath*: <http://youtu.be/wUr0YVZuM5M>
- e** **eResource 2-23:** To learn more about the proper technique for using incentive spirometry, view <http://youtu.be/VHN5zPaw96w>
- e** **eResource 2-24:** Consult Epocrates Online for detailed information related to discharge teaching and follow-up for Joshua: [Pathway: <https://online.epocrates.com> → select “Diseases” → enter “COPD” in the search field → select “Follow-Up” and review content]
- e** **eResource 2-25:** To learn more about this procedure, consult the Merck Manual: [Pathway: www.merckmanuals.com → select “The Merck Manual of Diagnosis and Therapy” → enter “ventilation and perfusion scan” into the search field in the upper right corner → select “V/Q scanning” and review content]

- e** **eResource 2-26:** Consult Epocrates Online for detailed information regarding diagnostic tests for pulmonary embolism: [Pathway: <https://online.epocrates.com> → select “Diseases” → enter “pulmonary embolism” in the search field → select “Diagnosis” → select “Tests” and review content. Be sure to click on “D-dimer” to view detailed information]
- e** **eResource 2-27:** Use MedCalc to verify your calculations:
- Online: [Pathway: www.medcalc.com → select “Fluids/Electrolytes” → select “IV Rate” and enter infusion order]
 - Mobile device: [Pathway: MedCalc → enter “infusion” into the search field → select “Infusion Management” → enter infusion order]
- e** **eResource 2-28:** To supplement the patient teaching regarding anticoagulant therapy, visit Medscape:
- Online: [Pathway: www.medscape.org → Under the tab “Reference,” select “References & Tools” → enter “Pulmonary Embolism” into the search field → under “Medication,” select “Anticoagulants”]
 - On your mobile device: [Pathway: Medscape → “Pulmonary Embolism” into the search field → Under “Medication,” select “Anticoagulants”]
- e** **eResource 2-29:** For more information regarding patient teaching, consult Epocrates Online: [Pathway: <https://online.epocrates.com> → select “Diseases” → enter “pulmonary embolism” in the search field → select “Follow-up” → select “Overview” and review content. Be sure to view “Prevention” to learn about secondary prevention measures]
- e** **eResource 2-30:** To hear how inspiratory crackles sound, go to: <http://goo.gl/gUx17>
- e** **eResource 2-31:** For more information regarding risk factors for pulmonary edema, consult Epocrates Online: [Pathway: <https://online.epocrates.com> → select “Diseases” → enter “pulmonary edema” in the search field → under “Diagnosis” select “Risk Factors”]
- e** **eResource 2-32:** To learn more about these drugs and precautions, consult Skyscape’s RxDrugs on your mobile device: [Pathway: Skyscape → select “RxDrugs” → enter “Lasix” into the search field → scroll down to view Warnings/precautions; repeat with “Bumex”]
- e** **eResource 2-33:** To learn more about the action of diuretics in the kidney, view: <http://youtu.be/6Wc4f2KnBYo>

- eResource 2-34:** For more information regarding risk factors for pulmonary edema, consult Epocrates Online: [Pathway: <https://online.epocrates.com> → select “Diseases” → enter “pulmonary edema” in the search field → under “Follow-up” select “Patient Teaching”]
- eResource 2-35:** Use MedCalc’s Acid–Base Online Calculator to verify your understanding: [Pathway: www.medcalc.com → select “Pulmonary” → select “ABG Calculator” and enter patient data]
- eResource 2-36:** To learn more about treatment for ARDS, consult the Merck Manual: [Pathway: www.merckmanuals.com → select “The Merck Manual of Diagnosis and Therapy” → enter “ARDS” into the search field in the upper right corner → scroll down and select “Acute Hypoxemic Respiratory Failure” and scroll down to read “Etiology”]
- eResource 2-37:** Consult Medscape on your mobile device to review the effect of this medication as well as safety and monitoring guidelines: [Pathway: Medscape → enter “lorazepam” into the search field and review content]
- eResource 2-38:** To verify that these two drugs can be safely administered together, consult Epocrates on your mobile device: [Pathway: Epocrates → InteractionCheck → enter “Neupogen” and “Decadron” and view results]
- eResource 2-39:** To learn more about this procedure, consult the Merck Manual: [Pathway: www.merckmanuals.com → select “The Merck Manual of Diagnosis and Therapy” → enter “brochoscopy” into the search field in the upper right corner → select “bronchoscopy” and review content]
- eResource 2-40:** To provide an overview of chemotherapy, the nurse shows Anniston several videos:
- *Chemotherapy Part 1:* http://youtu.be/eJq4xvjd_MU
 - *Chemotherapy Part 2:* <http://youtu.be/YzkAXSB3loM>
 - *Chemotherapy Part 3:* <http://youtu.be/4BFSdj2iZTk>
 - *Chemotherapy Part 4:* <http://youtu.be/QOts1ldjEYI>

3

Nursing Care of the Patient With Renal Disease

- e** **eResource 3-1:** To supplement your understanding of the risk factors, refer to Epocrates Online: [Pathway: <http://online.epocrates.com> → enter “incontinence” into the search field → select “urinary incontinence” → select “risk factors” and review content]
- e** **eResource 3-2:** For more information regarding the types and etiology of urinary incontinence, refer to Medscape on your mobile device: [Pathway: Medscape → enter “incontinence” into the search field → select “urinary incontinence” and review content under the “overview” tab]
- e** **eResource 3-3:** To learn more about the diagnostic testing ordered for Julia, refer to Medscape on your mobile device: [Pathway: Medscape → enter “urinary incontinence” into the search field → select “workup” and review all the diagnostic procedures]
- e** **eResource 3-4:** To learn more about the recommended treatment and management for urinary incontinence, refer to:

 - Medscape on your mobile device: [Pathway: Medscape → enter “urinary incontinence” into the search field → select “treatment and management” and review content]
 - Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual for Health Care Professionals” → enter “urinary incontinence” into the search field → select “treatment” and review content]
- e** **eResource 3-5:** To learn more about management of urinary incontinence in women to guide development of a nursing care plan for Julia, refer to *Urinary Incontinence Treatments for Women (Beyond the Basics)*: <http://goo.gl/nleHm>
- e** **eResource 3-6:** To learn more about the clinical presentation of a urinary tract infection, consult Epocrates Online: [Pathway: <http://online.epocrates.com> → select the “diseases” tab → enter “urinary tract infection” into the search field → review “Key Highlights” and “History and Exam” details]

- e** **eResource 3-7:** To reinforce your understanding of the effects of Bactrim DS, consult:
- Epocrates on your mobile device: [Pathway: Epocrates → enter “Bactrim” into the search field → select “Bactrim DS” → scroll down to review “Adverse Reactions” and review “serious reactions” and “common reactions”]
 - Skyscape’s RxDrugs: [Pathway: RxDrugs → enter “Bactrim” into the search field → select “Bactrim DS” → scroll down to review “Adverse Reactions”]
- e** **eResource 3-8:** To reinforce your understanding of the effects of Macrobid consult:
- Epocrates on your mobile device: [Pathway: Epocrates → enter “Macrobid” into the search field → select “Macrobid” → scroll down to review “Adverse Reactions” and review “serious reactions” and “common reactions”]
 - Skyscape’s RxDrugs: [Pathway: RxDrugs → enter “Macrobid” into the search field → select “Macrobid” → scroll down to review “Adverse Reactions”]
- e** **eResource 3-9:** To learn more about prevention of urinary tract infections among women, consult Medscape on your mobile device: [Pathway: Medscape → enter “urinary” into the search field → select “Prevention of Urinary Tract Infections in Women” and review content]
- e** **eResource 3-10:** To learn more about factors contributing to the formation of renal calculi, refer to:
- Epocrates Online: [Pathway: <http://online.epocrates.com> → enter “renal calculi” into the search field → select “risk factors” and review content]
 - Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual for Health Care Professionals” → enter “renal calculi” into the search field → select “urinary calculi” → review “etiology” and “pathophysiology.” Be sure to look at all the images]
- e** **eResource 3-11:** To reinforce your understanding of morphine, its indication and effects, consult on your mobile device:
- Medscape: [Pathway: Medscape → enter “Morphine” into the search field → review content]
 - Skyscape’s RxDrugs [Pathway: RxDrugs → enter “Morphine” into the search field → review content]
 - Epocrates: [Pathway: Epocrates → enter “Morphine” into the search field → review content]

- e** **eResource 3-12:** To reinforce your understanding of the key findings accompanying urolithiasis, consult Epocrates Online: [Pathway: <http://online.epocrates.com> → enter “urolithiasis” into the search field → review “key findings”]
- e** **eResource 3-13:** To learn more about the symptoms associated with urolithiasis (urinary calculi), consult Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual for Health Care Professionals” → enter “urolithiasis” (or “renal calculi”) into the search field → scroll down to “symptoms and signs” and “diagnosis” to review content]
- e** **eResource 3-14:** To learn more about renal calculi formation, review the brief video, *Renal Calculi*: <http://goo.gl/roXgW>
- e** **eResource 3-15:** To supplement patient teaching, the nurse shows Grayson MedlinePlus’s interactive tutorial about kidney stones: [Pathway: www.nlm.nih.gov/medlineplus → enter “kidney stones” into the search field → select “kidney stones interactive tutorial” and view content (or use quick link: <http://goo.gl/HdBah>)]
- e** **eResource 3-16:** To supplement Grayson’s discharge teaching, the nurse provides information regarding dietary measures to prevent kidney stone formation by providing the National Kidney and Urologic Diseases Information Clearinghouse (NKUDIC), *Diet for Kidney Stone Prevention*: <http://goo.gl/9lbli>
- e** **eResource 3-17:** To review normal serum blood levels, refer to:
- Epocrates Online: [Pathway: <http://online.epocrates.com> → select “Tables” tab → scroll down and select “Lab Reference” and review content]
 - Global RPh: <http://goo.gl/BrHnj>
- e** **eResource 3-18:** To reinforce your understanding of the normal function of the kidneys, view *Urinary System Part 1—The Kidneys*: <http://youtu.be/zEpUQkQ-uKM>
- e** **eResource 3-19:** To learn more about the clinical presentation of acute renal failure and diagnostic procedure, consult:
- Epocrates Online: [Pathway: <http://online.epocrates.com> → enter “acute renal failure” into the search field → review “Key Highlights” and “History & Exam”]
 - Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual for Health Care Professionals” → enter “acute renal failure” into the search field → select “acute renal failure” and review “overview” and “symptoms & signs”]

- e** **eResource 3-20:** To better understand acute renal failure, watch the following brief lectures by Dr. Roger Seheult entitled *Acute Renal Failure Explained Clearly!*:
- Part 1: <http://goo.gl/MPV91>
 - Part 2: <http://goo.gl/LXyfA>
 - Part 3: <http://goo.gl/udfTY>
- e** **eResource 3-21:** For material to supplement the diet teaching for Kimberly, consult:
- Virginia Commonwealth University Health System's *The Renal Diet*: <http://goo.gl/7WixQ>
 - MedlinePlus's *Diet: Chronic Kidney Disease*: <http://goo.gl/BJz3J>
- e** **eResource 3-22:** To learn more about peritoneal dialysis and hemodialysis, view the following videos:
- Peritoneal Dialysis: <http://goo.gl/oOpnq>
 - Hemodialysis: <http://goo.gl/x3VHI>
- e** **eResource 3-23:** To learn more about dialysis fistulas and peritoneal dialysis, refer to Medscape on your mobile device: [Pathway: Medscape → enter “dialysis” into the search field → select “dialysis fistulas” and review content then select “peritoneal dialysis catheter insertion” and review content]
- e** **eResource 3-24:** To learn more about the presentation of chronic renal disease, refer to Epocrates Online: [Pathway: <http://online.epocrates.com> → select “diseases” tab → enter “renal disease” → review content under “Clinical Presentation”]
- e** **eResource 3-25:** To learn about the long-term management of chronic renal failure, consult Medscape on your mobile device: [Pathway: Medscape → enter “dialysis” into the search field → select “Dialysis Complications of Chronic Renal Failure” and review content]
- e** **eResource 3-26:** To supplement the patient teaching, refer to *Hemodialysis Shunt, Graft, and Fistula Care*: <http://goo.gl/50G5t>

4

Nursing Care of the Patient With Gastrointestinal Disease

- e** **eResource 4-1:** To learn more about factors that cause and/or contribute to gastrointestinal ulceration, go to Medscape: [Pathway: www.medscape.org → Under the tab “Reference,” select “References & Tools” → enter “peptic ulcer disease” into the search field → select “overview” → select “Etiology” and review content]
- e** **eResource 4-2:** Consult Epocrates Online for detailed information related to Craig’s risk factors associated with peptic ulcer disease: [Pathway: <https://online.epocrates.com> → select “Diseases” → enter “peptic ulcer disease” in the search field → under “Diagnosis” select “Risk Factors” and review content]
- e** **eResource 4-3:** To learn more about interpretation of findings, consult Merck Manual: [Pathway: www.merckmanuals.com → select “The Merck Manual of Diagnosis and Therapy” → enter “GI Bleeding” into the search field in the upper right corner → select “Overview of GI Bleeding” → select “Interpretation of findings”]
- e** **eResource 4-4:** Craig wants to know how he got the peptic ulcer in the first place. To help Craig understand this, the physician shows him a short video: *How a Peptic Ulcer Develops*: <http://youtu.be/4bXZRgJ-1fk>
- e** **eResource 4-5:** Consult Medscape for more information related to clinical manifestations/presentation of peptic ulcer disease: [Pathway: www.medscape.org → Under the tab “Reference,” select “References & Tools” → enter “peptic ulcer disease” into the search field → select “Presentation” → select “History” and “Physical Examination” and review content; be sure to click on “Multimedia Library” in this section to review the related images]
- e** **eResource 4-6:** To learn more about gastrointestinal bleeding, listen to Merck Medicus’s podcast: *Gastrointestinal Bleeding*: <http://goo.gl/LFjf3>

- e** **eResource 4-7:** For more information regarding nursing diagnoses, review the following:
- Video on *How to Write a Nursing Diagnosis*: <http://youtu.be/JyAaQ5hILSs>
 - The NANDA Nursing Diagnosis List: <http://goo.gl/1ryZg>
- e** **eResource 4-8:** Consult Medscape for more information related to the endoscopy: [Pathway: www.medscape.org → Under the tab “Reference,” select “References & Tools” → enter “Endoscopy” into the search field → select “Capsule Endoscopy” and review content; be sure to click on “Multimedia Library” in this section to review the related images]
- e** **eResource 4-9:** Consult Epocrates on your mobile device to review safety and monitoring guidelines that you would want to share with Craig: [Pathway: Epocrates → select “amoxicillin” → select “Safety/Monitoring.” Also review Contraindications/Cautions as well as Adverse Reactions. Repeat this with the other drugs]
- e** **eResource 4-10:** To learn more about PPIs, consult the Merck Manual: [Pathway: www.merckmanuals.com → select “The Merck Manual of Diagnosis and Therapy” → enter “peptic ulcer disease” into the search field in the upper right corner → select “Drug Treatment of Gastric Acidity” and review content]
- e** **eResource 4-11:** Download AHRQ’s Electronic Preventive Services Selector (ePSS) onto your mobile device or computer (<http://epss.ahrq.gov/PDA/index.jsp>) and enter Craig’s personal data to identify clinical preventive services that are appropriate for him.
- e** **eResource 4-12:** To learn more about CT scanning, go to Medscape: [Pathway: www.medscape.org → Under the tab “Reference,” select “References & Tools” → enter “Appendicitis Workup” into the search field → select “CT Scanning” → select “History” and “Physical Examination” and review content; be sure to click on “Imaging of Appendicitis” in this section to review the related images]
- e** **eResource 4-13:** Consult Epocrates Online for detailed information related to Appendicitis: [Pathway: <https://online.epocrates.com> → select “Diseases” → enter “appendicitis” in the search field → under “Diagnosis” select “History & Exam” and review “Key Diagnostic Factors”]
- e** **eResource 4-14:** To provide an informed consent from Chad, the surgeon reviews the appendectomy procedure, *3D Medical Animation-Laparoscopic Appendectomy Surgery*: <http://goo.gl/cYgNq>

- e** **eResource 4-15:** Use MedCalc to verify your answer: [Pathway: www.medcalc.com → select “Fluids/Electrolytes” → select “IV Rate” and enter information into fields]
- e** **eResource 4-16:** Consult Medscape for more information related to postoperative considerations for an Open Appendectomy: [Pathway: www.medscape.org → Under the tab “Reference,” select “References & Tools” → enter “Appendectomy” into the search field → select “Open Appendectomy” → select “Postoperative Follow-up” and review content; be sure to click on “Multimedia Library” in this section to review the related images]
- e** **eResource 4-17:** To view a brief video clip demonstrating an open appendectomy, go to: <http://goo.gl/WwPKp>
- e** **eResource 4-18:** For more information regarding nursing diagnoses, refer to the NANDA Nursing Diagnosis List: <http://goo.gl/1ryZg>
- e** **eResource 4-19:** Consult Epocrates on your mobile device to review safety and monitoring guidelines that you would want to share with Chad: [Pathway: Epocrates → select “Percocet” → select “Safety/Monitoring.” Also review Contraindications/Cautions as well as Adverse Reactions]
- e** **eResource 4-20:** Consult Epocrates Online for detailed information related to discharge instructions to Chad following the appendectomy: [Pathway: <https://online.epocrates.com> → select “Diseases” → enter “appendicitis” in the search field → select “acute appendicitis” → under “Follow-Up” select “Overview” and “Complications”]
- e** **eResource 4-21:** Consult Stedman’s Laboratory Reference Range Values: <http://goo.gl/tXI3a>
- e** **eResource 4-22:** To learn more about small bowel obstruction, go to Medscape: [Pathway: www.medscape.org → Under the tab “Reference,” select “References & Tools” → enter “small bowel obstruction” into the search field → select “Overview” and review content; be sure to view multimedia library]
- e** **eResource 4-23:** Consult Epocrates Online for detailed information related to Stephanie’s risk factors associated with small bowel obstruction: [Pathway: <https://online.epocrates.com> → select “Diseases” → enter “small bowel obstruction” in the search field → under “Diagnosis” select “Risk Factors” and review content]

- e** **eResource 4-24:** To learn more about the clinical presentation, go to Medscape: [Pathway: www.medscape.org → Under the tab “Reference,” select “References & Tools” → enter “small bowel obstruction” into the search field → select “Presentation” → review “History” and “Physical Examination”]
- e** **eResource 4-25:** To review the procedure of NG tube insertion, consult Medscape: [Pathway: www.medscape.org → Under the tab “Reference,” select “References & Tools” → enter “NGT” into the search field → select “Nasogastric Tube” → review content focusing on “Positioning,” “Technique,” and “Pearls”]
- e** **eResource 4-26:** For more information regarding a clear liquid diet, refer to:
■ Mayo Clinic’s Clear Liquid Diet overview: <http://goo.gl/gjAz>
■ MedlinePlus’s Diet-clear liquid: <http://goo.gl/6JLW3>
- e** **eResource 4-27:** Consult AHRQ’s Electronic Preventive Services Selector (ePSS) on your mobile device or computer (<http://eps.ahrq.gov/PDA/index.jsp>) and enter John’s personal data to identify clinical preventive services that are appropriate for him.
- e** **eResource 4-28:** To learn more about risk factors for colon cancer, view the American Cancer Society’s video, *Colon Cancer Risk Factors: What You Need to Know*: <http://youtu.be/5w9dR1X2wOE>
- e** **eResource 4-29:** Consult Epocrates Online for more detailed information related to John’s risk factors for colon cancer: [Pathway: <https://online.epocrates.com> → select “Diseases” → enter “colon cancer” in the search field → under “Diagnosis” select “Risk Factors” and review content]
- e** **eResource 4-30:** Consult Epocrates Online for more detailed information about key diagnostic factors: [Pathway: <https://online.epocrates.com> → select “Diseases” → enter “colon cancer” in the search field → under “Diagnosis” select “History & Exam” and review content]
- e** **eResource 4-31:** John also views a MedlinePlus video, which provides an overview of the colonoscopy procedure: <http://goo.gl/wOm8n>
- e** **eResource 4-32:** To learn more about the CEA test, visit Lab Tests Online: <http://goo.gl/Hh3Ge>

- e** **eResource 4-33:** To learn more about the procedure and postprocedure care, consult Medscape: [Pathway: www.medscape.org → Under the tab “Reference,” select “References & Tools” → enter “Colonoscopy” into the search field → review content focusing on “Post-Procedure”]
- e** **eResource 4-34:** To learn more about the six-step protocol for giving bad news, view *How Best to Deliver Bad News to Patients and Family*: <http://youtu.be/ItC68Pdnpk4>
- e** **eResource 4-35:** For a review of Therapeutic Communication, view
- Therapeutic Communication in Psychiatric Nursing: <http://goo.gl/UnCdX>
 - List of Communication Techniques: <http://goo.gl/LSgMJ>
- e** **eResource 4-36:** To learn more about the procedure and informed consent:
- View the video, *Colectomy*: <http://goo.gl/QT53Z>
 - Read *Informed Consent—Adults* from MedlinePlus: <http://goo.gl/G79rW>
- e** **eResource 4-37:** The nurse provides additional patient teaching and gives John the *Patient Handbook for Colectomy*: <http://goo.gl/U4YmV>
- e** **eResource 4-38:** Patient self-care teaching material: <http://goo.gl/vfU88>
- e** **eResource 4-39:** To verify your calculations, consult Skyscape’s Archimedes medical calculator on your mobile device: [Pathway: Archimedes → enter “BMI” into the search field → enter patient data and check results]
- e** **eResource 4-40:** To verify your calculations, consult Skyscape’s Archimedes medical calculator on your mobile device: [Pathway: Archimedes → enter “Ideal Body Weight” into the search field → enter patient data and check results]
- e** **eResource 4-41:** The primary care provider knows that obesity is a problem among many Americans and recalls watching *The Obesity Epidemic*, a video from the CDC: <http://goo.gl/NbZsc>
- e** **eResource 4-42:** To learn more about obesity treatment and management, go to Medscape: [Pathway: www.medscape.org → Under the tab “Reference,” select “References & Tools” → enter “obesity” into the search field → select “Obesity,” → select “Treatment” and review content]

- e** **eResource 4-43:** To learn more about the bariatric surgical procedure, go to Medscape: [Pathway: www.medscape.org → Under the tab “Reference,” select “References & Tools” → enter “Bariatric surgery” into the search field → select “Bariatric surgery” → select “Treatment” and review content]
- e** **eResource 4-44:** To learn more about dumping syndrome, refer to
- Mayo Clinic’s tip sheet, Dumping Syndrome: <http://goo.gl/k3AY0>
 - Dumping syndrome overview and diagram by MedlinePlus: <http://goo.gl/iB6be>
- e** **eResource 4-45:** For information regarding postoperative follow-up, consult the Merck Manual [Pathway: www.merckmanuals.com → select “The Merck Manual of Diagnosis and Therapy” → enter “bariatric surgery” into the search field in the upper right corner → select “Follow-up” and review content]
- e** **eResource 4-46:** For information regarding hepatitis, consult
- Merck Manual: [Pathway: www.merckmanuals.com → select “The Merck Manual of Diagnosis and Therapy” → enter “hepatitis” into the search field in the upper right corner → select “Acute Viral Hepatitis” → select “hepatitis A” and review content related to etiology]
 - eMedicinehealth’s slideshow, A Visual Guide to Hepatitis: <http://goo.gl/B8bCl>
- e** **eResource 4-47:** Within the Merck Manual, review material covering symptoms and signs of hepatitis: [Pathway: www.merckmanuals.com → select “The Merck Manual of Diagnosis and Therapy” → enter “hepatitis” into the search field in the upper right corner → select “Acute Viral Hepatitis” → select “Symptoms and Signs” and review content (both general and virus specific)]
- e** **eResource 4-48:** Consult Epocrates Online for information regarding patient teaching regarding hepatitis A: [Pathway: <https://online.epocrates.com> → select “Diseases” → enter “Hepatitis A” in the search field → select “Follow-up” and review content]
- e** **eResource 4-49:** To learn more about bilirubin, consult Medscape on your mobile device: [Pathway: Medscape → enter “bilirubin” into the search field → select “bilirubin” and review content]
- e** **eResource 4-50:** To review content about jaundice and its management, go to: <http://goo.gl/4wzsS>

- e** **eResource 4-51:** Visit the Society of Teachers of Family Medicine’s (STFM) website to download current electronic versions of recommended immunization schedules: [Pathway: www.immunizationed.org → locate the program for your mobile device and download. Note: If you prefer, you can view the pdf versions of the CDC schedules]
- e** **eResource 4-52:** Visit Epocrates Online to review recommended patient teaching related to prevention: [Pathway: <https://online.epocrates.com> → select “Diseases” → enter “Hepatitis A” in the search field → select “Treatment” to review content related to primary and secondary prevention]
- e** **eResource 4-53:** To view a video of a CT scan of an abdomen, go to <http://goo.gl/0MVHi>
- e** **eResource 4-54:** Consult Epocrates Online to review content related to cirrhosis: [Pathway: <https://online.epocrates.com> → under the “Diseases” tab, enter “cirrhosis” in the search field and review the content and image library]
- e** **eResource 4-55:** Additional patient education material, focusing upon self-care at home, can be found at eMedicinehealth.com: <http://goo.gl/Fr6nT>
- e** **eResource 4-56:** To learn more about liver function, view:

 - *Liver Health: How Does the Liver Function:* <http://youtu.be/RsPzIqcVaoY>
 - An animation demonstrating the function of the liver: <http://youtu.be/tat0QYxICbo>
- e** **eResource 4-57:** To help Bob better understand ascites, the primary care provider provides:

 - Patient education materials: <http://goo.gl/9927I>
 - A video explaining ascites: <http://youtu.be/pvuvlcgbG90>
- e** **eResource 4-58:** For a more detailed overview of hepatic encephalopathy:

 - Watch a video presentation: <http://youtu.be/WOcFuVa4VoY>
 - Visit Medscape:
 - Online: [Pathway: www.medscape.org → Under the tab “Reference,” select “References & Tools” → enter “hepatic encephalopathy” into the search field and review content]
 - On your mobile device, you can access the same information: [Pathway: Medscape → enter “hepatic encephalopathy” into the search field and review content]

- e** **eResource 4-59:** Consult Epocrates Online for detailed information related to these prescribed medications: [Pathway: <https://online.epocrates.com> → select “drugs” → enter each medication in the search field and review content]
- e** **eResource 4-60:** Consult Epocrates Online for detailed information related to discharge teaching and follow-up for Bob and his wife: [Pathway: <https://online.epocrates.com> → select “Diseases” → enter “cirrhosis” in the search field → select “Follow-Up” and review content]
- e** **eResource 4-61:** For an overview of the anatomy of the gallbladder and this procedure, view the following:
- Gallbladder Ultrasound Part 1: <http://youtu.be/FY3dBuQV03w>
 - Gallbladder Ultrasound Part 2: <http://youtu.be/L3e-YdQRa-A>
- e** **eResource 4-62:** To learn more about drug and associated precautions, consult Skyscape’s RxDrugs on your mobile device: [Pathway: Skyscape → select “RxDrugs” → enter “dilaudid” into the search field → select “injectable” and review content]
- e** **eResource 4-63:** To learn more about clinical manifestations of cholelithiasis, go to Medscape:
- Online: [Pathway: www.medscape.org → Under the tab “Reference,” select “References & Tools” → enter “cholelithiasis” into the search field and review content]
 - On a mobile device: [Pathway: Medscape → enter “cholelithiasis” into the search field and review content. Note: Be sure to review images]
- e** **eResource 4-64:** Use MedCalc’s Online Calculator to verify your understanding: [Pathway: www.medcalc.com → select “Fluids/Electrolytes” → select “IV Rate” and enter information into fields]
- e** **eResource 4-65:** For better understanding of this surgical procedure, review the following:
- Laparoscopic cholecystectomy: <http://goo.gl/JBFXh>
 - On your mobile device, open Medscape [Pathway: Medscape → enter “cholecystectomy” into the search field and review content. Be sure to view the media library]
- e** **eResource 4-66:** To reinforce her teaching, the nurse shows Patrick a video demonstrating the proper technique for using an incentive spirometry, view <http://youtu.be/VHN5zPaw96w>

- e** **eResource 4-67:** To learn more about the clinical presentation of acute pancreatitis, consult the Merck Manual: [Pathway: www.merckmanuals.com → select “The Merck Manual of Diagnosis and Therapy” → enter “acute pancreatitis” into the search field in the upper right corner → select “Overview of GI Bleeding” → select “Interpretation of findings”]

- e** **eResource 4-68:** Consult Stedman’s Laboratory Reference Range Values: <http://goo.gl/tXI3a>

- e** **eResource 4-69:** For an overview of pancreatitis, view *What Is Pancreatitis?* <http://youtu.be/iA7cwCexs6w>

- e** **eResource 4-70:** Use MedCalc to verify your answer: [Pathway: www.medcalc.com → select “Fluids/Electrolytes” → select “IV Rate” and enter information into fields]

- e** **eResource 4-71:** For additional information regarding sliding-scale therapy, review <http://goo.gl/CPldH>

- e** **eResource 4-72:** To reinforce teaching regarding complications of bedrest, the nurse provides the following information about bedsores (pressure sores): <http://goo.gl/RrgdM>

- e** **eResource 4-73:** To reinforce patient teaching regarding morphine, consult Medscape on your mobile device: [Pathway: Medscape → enter “Morphine” into the search field and review content]

5

Nursing Care of the Patient With Neurological Disease

- e** **eResource 5-1:** To learn more about the causes of seizures, consult the Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “seizure disorder” into the search field and review content regarding etiology. Don’t forget to look at the table of causes]
- e** **eResource 5-2:** To verify the therapeutic serum level for Dilantin, refer to Epocrates on your mobile device: [Pathway: Epocrates → enter “Dilantin” into the search field → scroll down to “Safety/Monitoring” to review content]
- e** **eResource 5-3:** To reinforce your understanding of common side effects associated with Dilantin, refer to Epocrates on your mobile device: [Pathway: Epocrates → enter “Dilantin” into the search field → scroll down to “Common Reactions” and review content]
- e** **eResource 5-4:** To reinforce your understanding and to learn more about anticonvulsant medications, refer to Medscape on your mobile device: [Pathway: Medscape → enter “Epilepsy” into the search field → select “Epilepsy and Seizures” → select “Medication” tab → select “Anticonvulsant Agents” and review content]
- e** **eResource 5-5:** For supplemental information regarding patient and family teaching, refer to Epocrates Online: [Pathway: <http://online.epocrates.com> → enter “epilepsy” into the search field → select “Generalized seizures in adults” → review content under “Follow-up” focusing on “Patient Instructions” and “Complications”]
- e** **eResource 5-6:** For more information about seizure triggers, refer to Merck Manual Online: [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “seizures” into the search field → select “seizure disorders” → review content under “History.” Be sure to scroll down to review Tables 1 and 3]

- e** **eResource 5-7:** For more supplemental teaching material for Austin's friends, refer to:
- Medline Plus interactive tutorial, *Seizures & Epilepsy*: <http://goo.gl/GWTsG>
 - Careplans Online to review a nursing care plan for patients with seizure disorders: <http://goo.gl/hXyWA>
- e** **eResource 5-8:** To help Pam learn more about this procedure, refer to Medline Plus: [Pathway: www.nlm.nih.gov → select "MedLinePlus" → enter "CT scan" into the search field → select "read more" → select "cranial CT" and review content. Or use quick link: <http://goo.gl/bwI6h>]
- e** **eResource 5-9:** To learn more about risk factors associated with stroke, refer to Epocrates Online: [Pathway: <http://online.epocrates.com> → select the "diseases" tab → enter "stroke" into the search field → select "risk factors" and review content]
- e** **eResource 5-10:** To better understand what happens during a stroke, watch the following video, *The Basics of Stroke*: <http://youtu.be/xbyfeEW56Nc>
- e** **eResource 5-11:** To learn more about the clinical presentation of stroke:
- Consult Medscape: [Pathway: Medscape → enter "stroke" into the search field → select "ischemic stroke" → select "clinical presentation" → select "history" and "physical examination" and review content]
 - View the following video depicting the symptoms of Transient Ischemic Attack (TIA) or mini-stroke: <http://youtu.be/L7UvhwORTd4>
- e** **eResource 5-12:** To learn more about the contraindications/risks associated with thrombolytic therapy, refer to the Merck Manual: [Pathway: www.merckmanuals.com → select "Merck Manual of Diagnosis and Therapy" → enter "thrombolytic therapy" into the search field → review content]
- e** **eResource 5-13:** To understand the criteria used in determining eligibility for receiving the t-PA, refer to Medscape on your mobile device: [Pathway: Medscape → enter "thrombolytic" into the search field → select "thrombolytic therapy in stroke" → select "thrombolysis guidelines" and review content]
- e** **eResource 5-14:** To verify your calculations, refer to MedCalc on your mobile device: [Pathway: MedCalc → enter "infusion" into the search field → select "infusion drip rate" → enter infusion order into fields]

- e** **eResource 5-15:** For more information regarding a nursing care plan for Pam, refer to Careplans Online: <http://goo.gl/jZsam>
- e** **eResource 5-16:** For more information regarding stroke rehabilitation resources, refer to:
- NIH's *Post-Stroke Rehabilitation Fact Sheet*: <http://goo.gl/92Pz4>
 - Department of Veterans Affairs, *Stroke Rehabilitation*: <http://goo.gl/ruARI>
 - MedLinePlus's interactive tutorial, *Stroke Rehabilitation*: <http://goo.gl/7ES7Z>
- e** **eResource 5-17:** For more information regarding recommended follow-up following a stroke, consult Epocrates Online: [Pathway: <http://online.epocrates.com> → select the “diseases” tab → enter “stroke” → select “Ischemic stroke” → select “Follow-up” and review content]
- e** **eResource 5-18:** To learn more about the causes of spinal cord injuries, consult Medscape on your mobile device: [Pathway: Medscape → enter → “spinal cord” into the search field → select “spinal cord injuries” → under the “overview” section, review “epidemiology”]
- e** **eResource 5-19:** To learn more about spinal cord injuries, view the following videos:
- *Basic Facts about Spinal Cord Injuries*: <http://youtu.be/6jpQhStDX9M>
 - *Levels of Function in Spinal Cord Injury*: http://youtu.be/PseUxltIw_U
- e** **eResource 5-20:** To learn more about the recommended diagnostic work-up, including x-rays and CT scan, continue reading in Medscape: [Pathway: Medscape → enter “spinal cord” into the search field → select “spinal cord injuries” → select the “Workup” tab and review content]
- e** **eResource 5-21:** To verify your calculations, refer to MedCalc on your mobile device: [Pathway: MedCalc → enter “infusion” into the search field → select “infusion management” and enter patient data]
- e** **eResource 5-22:** To learn more about complications associated with spinal cord injuries, refer to the Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “spinal cord injury” into the search field → select “spinal cord injury” → select “complications” and review content]
- e** **eResource 5-23:** For supplemental information regarding developing a nursing careplan for Dean, refer to Careplans Online: <http://goo.gl/nCBR2>

- e** **eResource 5-24:** To provide additional teaching for Dean’s mother, refer to University of Washington Medical Center’s patient pamphlets regarding *Maintaining Health Skin*:
- Part 1: <http://goo.gl/77Eij>
 - Part 2: <http://goo.gl/5tV3h>
- e** **eResource 5-25:** To learn more about the causes of thrombophlebitis and preventive measures, refer to the Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “thrombophlebitis” into the search field → select “Deep Venous Thrombosis (DVT)” → select “Prevention” and review content]
- e** **eResource 5-26:** For more information to supplement discharge teaching for spinal cord injury, refer to:
- NIH’s *Spinal Cord Injury Information Page*: <http://goo.gl/0cI9c>
 - MedLinePlus’s interactive tutorial, *Spinal Cord Injury*: <http://goo.gl/42IDm>
- e** **eResource 5-27:** To prepare Kacey for the MRI, the nurse reviewed the following content provided by MedlinePlus: <http://goo.gl/2ej6K>
- e** **eResource 5-28:** To review the six-step protocol for giving bad news, view *How Best to Deliver Bad News to Patients and Family*: <http://youtu.be/ItC68Pdnk4>
- e** **eResource 5-29:** For a review of Therapeutic Communication view:
- Therapeutic Communication in Psychiatric Nursing: <http://goo.gl/UnCdX>
 - List of Communication Techniques: <http://goo.gl/LSgMJ>
- e** **eResource 5-30:** To better understand the pathophysiology of multiple sclerosis, refer to Medscape: [Pathway: Medscape → enter “Multiple Sclerosis” into the search field → review content under “pathophysiology” also be sure to review the content under the “Workup” tab—particularly the information under “Magnetic Resonance Imaging”]
- e** **eResource 5-31:** To learn more about the clinical presentation of persons with multiple sclerosis, review the following:
- Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “multiple sclerosis” into the search field → select “multiple sclerosis” → select “Symptoms and Signs” and review content]
 - A video describing the early symptoms of multiple sclerosis: <http://youtu.be/shG0moR0Hec>

- e** **eResource 5-32:** To reinforce your understanding of the side effects associated with glatiramer, refer to Skyscape’s RxDrugs on your mobile device: [Pathway: RxDrugs → enter “glatiramer” into the search field → scroll down to “Adverse Reactions” and review content]
- e** **eResource 5-33:** To help Kacey and her mother learn more about managing multiple sclerosis, the nurse shows them a series of videos, *Living Well: A Guide to Managing Multiple Sclerosis*:
- Part 1: <http://youtu.be/FD5YoTCQ4W4>
 - Part 2: <http://youtu.be/sTw7w6s6Yhw>
 - Part 3: http://youtu.be/p6Hk7SqaC_s
- e** **eResource 5-34:** For supplemental information to help in the development of a care plan for Kacey, go to Careplans Online: <http://goo.gl/gDj24>
- e** **eResource 5-35:** To reinforce your understanding of the pathophysiology of Parkinson’s disease, consult Medscape: [Pathway: Medscape → enter “parkinson” into the search field → select “Parkinson Disease” → review “pathophysiology” under the “Overview” tab]
- e** **eResource 5-36:** To learn more about the manifestations of Parkinson’s disease, view *An Introduction to Parkinson’s Disease* by Brian Magennis: <http://youtu.be/YVEv9ulfqd4>
- e** **eResource 5-37:** To reinforce your understanding of the clinical presentation of Parkinson’s disease, review
- Online: Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “Parkinson” into search field → select “parkinson’s disease” → select “Symptoms and Signs” to view content]
 - On your mobile device, Medscape: [Pathway: Medscape → enter “parkinson” into the search field → select “parkinson’s disease” → select “clinical presentation” and review content]
- e** **eResource 5-38:** To better understand dyskinesia and how it is manifested in patients, view the following videos:
- *Parkinson’s Disease Symptoms #3: Dyskinesia*: <http://youtu.be/GgvswR95WQc>
 - *What Are the Symptoms of Parkinson’s Disease?—Ask the Experts*: <http://youtu.be/IHDFQfmkKlg>

- e** **eResource 5-39:** To supplement patient teaching, the nurse provides the following information to Rick and his wife:
- Online: Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “parkinson” into the search field → select “Treatment” and review content]
 - Epocrates Online: [Pathway: <http://online.epocrates.com> → select “Merck Manual of Diagnosis and Therapy” → enter “parkinson” into the search field → select “follow-up” and review content]
 - On your mobile device, Medscape: [Pathway: Medscape → enter “parkinson” into the search field → select “parkinson’s disease” → select “Treatment and Management” and review content]
- e** **eResource 5-40:** For more information to help in the development of a nursing care plan for Rick, refer to NANDA Nursing Blogspot: <http://goo.gl/1SGo7>
- e** **eResource 5-41:** For more information regarding strategies to prevent constipation, review information provided in:
- Medscape: [Pathway: Medscape → enter “constipation” into the search field → select “constipation” → review content under “Treatment and Management”]
 - Careplans Online: <http://goo.gl/WFZr7>
- e** **eResource 5-42:** For more information regarding long-term monitoring for Rick, refer to:
- Medscape: [Pathway: Medscape → Parkinson’s Disease → “Treatment and Management” → select “long-term monitoring” and review content]
 - Epocrates Online: [Pathway: <http://online.epocrates.com> → enter “parkinson” into the search field → select “follow-up” and review content]
- e** **eResource 5-43:** To learn more about key findings associated with Alzheimer’s disease, consult Epocrates Online: [Pathway: <http://online.epocrates.com> → enter “Alzheimer” into search field → select “Alzheimer’s disease” and review key findings]
- e** **eResource 5-44:** For more information to supplement patient and family teaching, refer to:
- National Institutes of Health’s (NIH’s) *About Alzheimer’s Disease: Alzheimer’s Basics*: <http://goo.gl/E496x>
 - NIH Senior Health, *Alzheimer’s Disease*: <http://goo.gl/Kfj9b>
 - National Institute on Aging’s publication, *Understanding Alzheimer’s Disease: What You Need to Know*: <http://goo.gl/RgDPo>

- e** **eResource 5-45:** To reinforce your understanding about Alzheimer's disease, view this brief video, *What Is Alzheimer's Disease?:* <http://youtu.be/9Wv9jrk-gXc>

- e** **eResource 5-46:** To reinforce your understanding of Aricept, refer to your mobile device and open:

 - Epocrates: [Pathway: Epocrates → enter "Aricept" into the search field → review content]
 - Medscape: [Pathway: Medscape → enter "Aricept" into the search field → review content]

- e** **eResource 5-47:** For more information about safety precautions, read *Staying Safe:* <http://goo.gl/fvObe>

- e** **eResource 5-48:** For more information to help Harry's wife locate more resources to support caregiving, refer to:

 - Strategies for Caring for Someone With Alzheimer's: <http://goo.gl/u7ZZh>
 - Short video describing strategies for managing activities for patients with Alzheimer's: <http://goo.gl/ddfm9>

6

Nursing Care of the Patient With Endocrine Disease

- e** **eResource 6-1:** To review risk factors associated with diabetes, consult Epocrates Online: [Pathway: → <http://online.epocrates.com> → select the “diseases” tab → enter “Diabetes” into the search field → review content related to “risks”]
- e** **eResource 6-2:** To learn more about the pathophysiology of type 2 diabetes, open Medscape on your mobile device: [Pathway: Medscape → enter “Type 2 Diabetes” into the search field → in the “overview” section, select “pathophysiology” and review content]
- e** **eResource 6-3:** For more information regarding clinical manifestations associated with diabetes mellitus, refer to the Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “Diabetes” into the search field → select “Diabetes Mellitus (DM)” → select “Symptoms and Signs” and review content]
- e** **eResource 6-4:** To learn more about the diagnostic work-up for Jenny, refer to Medscape on your mobile device: [Pathway: Medscape → enter “Type 2 Diabetes” into the search field → select “Type 2 Diabetes Mellitus” → select “Workup” and review content]
- e** **eResource 6-5:** To learn more about HgbA1C, refer to Medscape on your mobile device: [Pathway: Medscape → enter “A1C” into the search field → select “Hemoglobin A1C testing” and review content]
- e** **eResource 6-6:** To review patient teaching regarding metformin with Jenny, refer to Epocrates on your mobile device: [Pathway: Epocrates → enter “metformin” into the search field → select “metformin” → scroll down to review “common reactions” and other relevant content]
- e** **eResource 6-7:** To learn more about nutritional management of patients with diabetes, refer to Medscape on your mobile device: [Pathway: Medscape → enter “nutrition” into the search field → select “Nutritional Management of Patients with Diabetes” and review content]

- e** **eResource 6-8:** To learn more about these medications, consult Medscape on your mobile device: [Pathway: Medscape → enter “Type 2 Diabetes” → select “Medication” and review content]
- e** **eResource 6-9:** To learn more about microvascular and macrovascular complications, refer to Medscape on your mobile device: [Pathway: Medscape → enter “Type 2 Diabetes” → select “Treatment and Management” → select “Approach and Considerations” and scroll down to review content]
- e** **eResource 6-10:** To supplement patient teaching regarding diabetes, refer to:

 - MedlinePlus’s interactive tutorial, *Diabetes—Introduction*: <http://goo.gl/nJn7E>
 - National Institutes of Health’s (NIH’s) pamphlet, *Your Guide to Diabetes: Type 1 and Type 2*: <http://goo.gl/bgBNl>
- e** **eResource 6-11:** To learn about the American College of Physicians recommended vaccinations for Jenny to help keep her healthy, download the ACP Immunization Advisor (ACP-IA) “app” onto your mobile device (<http://goo.gl/NZQJB>). [Pathway on your mobile device: ACP-IA → select “find” → enter “age” and “Condition” (Note: There are no special considerations for Jenny) → select “Show Vaccines”]
- e** **eResource 6-12:** To learn more, Alissa refers to Medscape on her mobile device: [Pathway: Medscape → enter “hypothyroidism” → select “Overview” → review content listed under “Background,” “Epidemiology,” and “Pathophysiology”]
- e** **eResource 6-13:** To learn more about common signs and symptoms associated with an endocrine disorder, refer to the Merck Manual:

 - Hypothyroidism: [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “hypothyroidism” into the search field → select “hypothyroidism” → select “Symptoms and Signs” and review content]
 - Endocrine Disorders: [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “Endocrine Disorders” into the search field → select “Endocrine Disorders” and review content]
- e** **eResource 6-14:** To learn more about the clinical presentation, refer to Medscape: [Pathway: Medscape → enter “hypothyroidism” into the search field → select “clinical presentation” and review content]

- e** **eResource 6-15:** To learn more about lab tests, consult Medscape: [Pathway: Medscape → enter “hypothyroidism” into the search field → select “work-up” → select “Laboratory Studies” and review content]
- e** **eResource 6-16:** To learn more about this medication, Alissa consults Epocrates on her mobile device: [Pathway: Epocrates → enter “Synthroid” into the search field → review content]
- e** **eResource 6-17:** For more patient education information, refer to *Hypothyroidism: What Every Patient Needs to Know*: <http://goo.gl/jM09p>
- e** **eResource 6-18:** Alissa uses Medscape on her mobile device to supplement her understanding of hyperthyroidism: [Pathway: Medscape → enter “hyperthyroidism” into the search field → review content]
- e** **eResource 6-19:** To reinforce your understanding of the function of the adrenal cortex, view the following video, *Adrenal Gland Explained Clearly!*, by Dr. Roger Seheult,
■ Part 1: http://youtu.be/ff_3mJV3Yh0
■ Part 2: <http://youtu.be/TLzqjRvqI04>
- e** **eResource 6-20:** To supplement your teaching regarding prednisone, refer to Epocrates Online: [Pathway: → <http://online.epocrates.com> → select the “Medication” tab → enter “Predisone” into the search field → select “patient teaching” and review content]
- e** **eResource 6-21:** To learn more about causes of Cushing’s syndrome, consult the Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “Cushing’s Syndrome” into the search field → select “Cushing’s Syndrome” → select “Etiology” and review content]
- e** **eResource 6-22:** To learn more about the clinical presentation of Cushing’s syndrome, refer to Medscape on your mobile device: [Pathway: Medscape → enter “Cushing’s syndrome” into the search field → select “Clinical Presentation” and review content]
- e** **eResource 6-23:** To learn more about the diagnostic work-up of Cushing’s syndrome, refer to Medscape on your mobile device: [Pathway: Medscape → enter “Cushing’s syndrome” into the search field → select “Work-Up” → select “Laboratory Studies” and review content]

- e** **eResource 6-24:** For additional information regarding developing a nursing care plan for a client with Cushing’s syndrome, refer to:

 - eNurse Care Plan: <http://goo.gl/UNe1j>
 - Nursing Hubpages: <http://goo.gl/RTP6F>

- e** **eResource 6-25:** For more patient education information to provide to Linda, refer to the NIH’s publication “Cushing’s Syndrome”: <http://goo.gl/UbClf>

- e** **eResource 6-26:** To reinforce patient teaching regarding prednisone, its indication and effects, on your mobile device, consult:

 - Medscape: [Pathway: Medscape → enter “Prednisone” into the search field → review content]
 - Skyscape’s RxDrugs: [Pathway: RxDrugs → enter “Prednisone” into the search field → review content]
 - Epocrates: [Pathway: Epocrates → enter “Prednisone” into the search field → review content]

7

Nursing Care of the Patient With Immunological Disease

- e** **eResource 7-1:** For more information about HIV testing, consult Medscape on your mobile device:

 - Overview: [Pathway: Medscape → enter “HIV” into the search field → select “HIV Testing Overview” and review content]
 - HIV Antibody Testing: [Pathway: Medscape → enter “HIV” into the search field → select “HIV Antibody Testing” and review content]
 - Pathophysiology: [Pathway: Medscape → enter “HIV” into the search field → select “HIV disease” → select “pathophysiology” and review content]

- e** **eResource 7-2:** To learn more about HIV and AIDS, Eva views the following videos:

 - *Understanding HIV and AIDS (HIV #1)*: <http://youtu.be/P91nIGt1axs>
 - *When HIV Becomes AIDS (HIV #2)*: <http://youtu.be/68I7JlVhuhY>
 - *HIV/AIDS Myths: Ten More Myths About HIV and AIDS*: <http://youtu.be/bURqMwLWV40>

- e** **eResource 7-3:** To learn more about the risk factors for HIV/AIDS, consult Epocrates Online: [Pathway: → <http://online.epocrates.com> → select the “diseases” tab → enter “HIV” into the search field → review content related to “risks”]

- e** **eResource 7-4:** To learn more about the clinical presentation of HIV/AIDS, consult the Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “HIV” into the search field → select “Human Immunodeficiency Virus (HIV)” → select “Symptoms and Signs” and review content]

- e** **eResource 7-5:** To verify your calculations for weight conversion, consult Skyscape’s Archimedes on your mobile device: [Pathway: Archimedes → enter “weight conversion” into the search field → enter patient data]

- e** **eResource 7-6:** To verify your calculations, consult Skyscape’s Archimedes on your mobile device: [Pathway: Archimedes → enter “IV” into the search field → select “IV Calc: infuse a volume” and enter medication order data]
- e** **eResource 7-7:** For more information to provide patient teaching, refer to:
■ *CDC’s Living With HIV/AIDS*: <http://goo.gl/9Toqe>
■ *Coping With HIV and AIDS*: <http://goo.gl/zVvqH>
- e** **eResource 7-8:** For more information regarding nursing care of patients with HIV/AIDS, refer to:
■ *Nursing Care of Patients with HIV/AIDS*: <http://goo.gl/mwD8e>
■ *University of California–San Francisco’s HIV InSite*:
<http://goo.gl/CYWYe>
- e** **eResource 7-9:** To reinforce your understanding of Mabel’s current medications and their effects, consult Epocrates on your mobile device: [Pathway: Epocrates → enter “Enbrel” into the search field and review content. Repeat with “ibuprofen” and “naproxen”]
- e** **eResource 7-10:** To learn more about rheumatoid arthritis, consult the following:
■ Medscape on your mobile device [Pathway: Medscape → enter “rheumatoid” into the search field → select “Rheumatoid Arthritis” and review content under “overview”]
■ Merck Manual online [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “rheumatoid” into the search field → select “Rheumatoid Arthritis” → review content]
- e** **eResource 7-11:** To learn more about the clinical presentation of rheumatoid arthritis, refer to Medscape on your mobile device: [Pathway: Medscape → enter “rheumatoid” into the search field → select “rheumatoid arthritis” and review content under “Clinical Presentation”]
- e** **eResource 7-12:** To learn more about the risk factors associated with rheumatoid arthritis, refer to Epocrates Online: [Pathway: <http://online.epocrates.com> → select the “diseases” tab → enter “rheumatoid arthritis” into the search field → select “Rheumatoid Arthritis” and review content under “risk factors.” Also be sure to review “etiology”]

- e** **eResource 7-13:** To learn more about the diagnostic work-up ordered for Mabel, refer to:
- Epocrates Online: [Pathway: <http://online.epocrates.com> → select “diseases” tab → enter “rheumatoid” into the search field → select “Rheumatoid Arthritis” → review content under “Diagnosis”]
 - Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “rheumatoid” into the search field → select “Rheumatoid Arthritis” → review content under “Diagnosis”]
- e** **eResource 7-14:** To reinforce your understanding of the newly prescribed medications, refer to the following resources on your mobile device:
- Epocrates: [Pathway: Epocrates → enter “Plaquenil” into the search field and review information. Repeat with “Humira” and “Prednisone”]
 - Skyscape’s RxDrugs: [Pathway: RxDrugs → enter “Plaquenil” into the search field and review information. Repeat with “Humira” and “Prednisone”]
 - Medscape: [Pathway: Medscape → enter “Plaquenil” into the search field and review information. Repeat with “Humira” and “Prednisone”]
- e** **eResource 7-15:** For additional information to support discharge teaching, review the following information:
- National Institutes of Health’s Handout on Health: *Rheumatoid Arthritis*: <http://goo.gl/Kb0Wd>
 - MedlinePlus’s Interactive tutorial, *Rheumatoid Arthritis*: <http://goo.gl/o2sT5>
- e** **eResource 7-16:** To learn more about the clinical presentation of osteoarthritis, refer to:
- Medscape: [Pathway: Medscape → enter “Osteoarthritis” into the search field → review content under “clinical presentation”]
 - View MedlinePlus’s video, *Osteoarthritis*: <http://goo.gl/mJPKA>
- e** **eResource 7-17:** To learn more about risk factors associated with osteoarthritis, refer to:
- Epocrates Online: [Pathway: <http://online.epocrates.com> → select the “diseases” tab → enter “osteoarthritis” into the search field and review content under “risk factors”]
 - Centers for Disease Control and Prevention (CDC) Risk Factors: <http://goo.gl/i0oG4>

- e** **eResource 7-18:** For more information regarding the recognizable signs and symptoms associated with osteoarthritis, refer to:
- Medscape: [Pathway: Medscape → enter “osteoarthritis” into the search field → read “physical examination” under the “clinical presentation” tab]
 - Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “osteoarthritis” into the search field → select “osteoarthritis” → select “symptoms & signs” and review content]
- e** **eResource 7-19:** To reinforce your understanding of the effects of Toradol, refer to the following resources on your mobile device:
- Epocrates: [Pathway: Epocrates → enter “Toradol” into the search field and review information]
 - Skyscape’s RxDrugs [Pathway: RxDrugs → enter “Toradol” into the search field and review information]
 - Medscape: [Pathway: Medscape → enter “Toradol” into the search field and review information]
- e** **eResource 7-20:** For supplemental information regarding alternative methods for pain management, refer to the CDC website: <http://goo.gl/3Jijk>
- e** **eResource 7-21:** For more information regarding developing a nursing care plan for Georgia’s pain and activity intolerance, refer to NANDA Nursing Interventions:
- Activity Intolerance: <http://goo.gl/p9bBT>
 - Pain (Acute/Chronic) related to Osteoarthritis: <http://goo.gl/XHfZv>
- e** **eResource 7-22:** For more information regarding SLE, refer to Medscape on your mobile device: [Pathway: Medscape → enter “lupus” into the search field → select “Systemic Lupus Erythematosus (SLE)” and review information under “Clinical Presentation”]
- e** **eResource 7-23:** To learn more about the diagnostic workup for Roberta and the diagnostic criteria, refer to Medscape on your mobile device: [Pathway: Medscape → enter “lupus” into the search field → select “Systemic Lupus Erythematosus (SLE)” → select “Workup” and review content under “Approach” and “Diagnostic Criteria for SLE”]



eResource 7-24: To reinforce your understanding of the side effects of prednisone, refer to the following resources on your mobile device:

- Epocrates: [Pathway: Epocrates → enter “Prednisone” into the search field → scroll down to review “Adverse Reactions” and “Safety and Monitoring”]
- Skyscape’s RxDrugs [Pathway: RxDrugs → enter “Prednisone” into the search field → scroll down to “warnings/precautions” and review information]
- Medscape: [Pathway: Medscape → enter “Prednisone” into the search field → select “Adverse Effects” and review information]

8

Nursing Care of the Patient With Hematological Disease

- e** **eResource 8-1:** Refer to Medscape to reinforce your understanding of anemia: [Pathway: Medscape → enter “anemia” into the search field → select “anemia” → review content in “overview.” Be sure to review content under “etiology”]
- e** **eResource 8-2:** To reinforce your understanding of the clinical manifestations of anemia, refer to:

 - Medscape on your mobile device: [Pathway: Medscape → enter “anemia” into the search field → select “anemia” → select “Clinical Presentation” and review content]
 - View *Anemia 1: Overview & Iron Deficiency Anemia*: <http://youtu.be/45v4R1S-2Hw>
- e** **eResource 8-3:** For more information about iron-deficiency anemia, refer to Medscape on your mobile device: [Pathway: Medscape → enter “anemia” into the search field → select “anemia” → select “Differential Diagnoses” → select “Iron Deficiency Anemia” and review content]
- e** **eResource 8-4:** For more information about the epidemiology of iron-deficiency anemia, refer to Medscape on your mobile device: [Pathway: Medscape → enter “Iron Deficiency Anemia” into the search field → under “Overview” select “Epidemiology” and review content]
- e** **eResource 8-5:** To learn more about dietary measures to treat iron-deficiency anemia, refer to the National Institutes of Health’s publication *How Is Anemia Treated?* <http://goo.gl/7x8Cf>
- e** **eResource 8-6:** To learn more about ferrous sulfate, consult the following resources on your mobile device:

 - Medscape: [Pathway: Medscape → enter “ferrous sulfate” into the search field → review content]
 - Skyscape’s RxDrugs: [Pathway: RxDrugs → enter “ferrous sulfate” into the search field → review content]
 - Epocrates: [Pathway: Epocrates → enter “ferrous sulfate” into the search field → review content]

- e** **eResource 8-7:** For supplemental information to assist in development of a nursing care plan for Whitney to help address her fatigue, refer to Nursing Care Plan and Diagnosis: <http://goo.gl/8xcca>
- e** **eResource 8-8:** To learn more about the pathophysiology of DIC, consult:
- Medscape on your mobile device Medscape: [Pathway: Medscape → enter “DIC” into the search field → select “Pathophysiology” and review content]
 - View the iMedicalSchool video, *Disseminated Intravascular Coagulation (DIC)*: <http://youtu.be/3gBdiXpwHAE>
- e** **eResource 8-9:** To learn more about the clinical manifestations of DIC, consult:
- Epocrates Online: [Pathway: → <http://online.epocrates.com> → select the “diseases” tab → enter “DIC” into the search field → select “disseminated intravascular coagulation (DIC)” and review “Key Highlights” and “Physical Exam”]
 - Medscape on your mobile device: [Pathway: Medscape → enter “DIC” into the search field → select “Clinical Presentation” and review content]
- e** **eResource 8-10:** To reinforce your understanding of normal blood values, refer to the University of Minnesota’s medical student website, *Normal Lab Values*: <http://goo.gl/sTM1A>
- e** **eResource 8-11:** To reinforce your understanding of lab results that indicate DIC, refer to Medscape on your mobile device: [Pathway: Medscape → enter “DIC” into the search field → select “Workup” → select “Laboratory Studies” and review content]
- e** **eResource 8-12:** To learn more about blood products, refer to the Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “Blood Products” into the search field → select “Blood Products” → scroll down to review content]
- e** **eResource 8-13:** To reinforce your understanding:
- Review the iMedical School video: *Disseminated Intravascular Coagulation (DIC)*: <http://youtu.be/3gBdiXpwHAE>
 - View, *DIC* video lecture by Dr. Sue Gamel-McCormick: <http://youtu.be/87uBWZmZGWk>
- e** **eResource 8-14:** For additional resources to develop a nursing care plan for Dale, consult eNurse Care Plans: <http://goo.gl/4P3fg>

9

Nursing Care of the Patient With Musculoskeletal Disease

- e** **eResource 9-1:** To supplement your understanding of the risk factors associated with osteoporosis, refer to Epocrates Online: [Pathway: <http://online.epocrates.com> → select the “Diseases” tab → enter “Osteoporosis” into the search field → under “Diagnosis” select “risk factors” and review content]

- e** **eResource 9-2:** To help Frances better understand osteoporosis, the nurse shows her the following videos:

 - *Osteoporosis-3D Medical Animation:* <http://http://youtu.be/rHyeZhcoZcQ>
 - MedlinePlus's *Osteoporosis:* <http://goo.gl/pj1xb>

- e** **eResource 9-3:** To learn more about the relevant laboratory tests for osteoporosis, refer to:

 - Medscape on your mobile device: [Pathway: Medscape → enter “osteoporosis” into the search field → select “workup” → select “Laboratory Studies” and review content]
 - The Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “osteoporosis” into the search field → select “osteoporosis” → select “Etiology” and review content]

- e** **eResource 9-4:** To supplement your teaching regarding the diagnostic procedures, refer to:

 - MedlinePlus for information re: Bone Density Test: [Pathway: www.nlm.nih.gov/medlineplus → enter “bone density test” into the search field → select “bone density mineral test” and review content]
 - American Academy of Orthopedic Surgeons (AAOS): [Pathway: <http://orthoinfo.aaos.org> → enter “osteoporosis” into the search field → scroll down and select “Osteoporosis Tests” and review content. (Note: There are many diagnostic procedures related to osteoporosis listed here)]

- e** **eResource 9-5:** For more information regarding dietary treatment, refer to:
- Epocrates Online: [Pathway: <http://online.epocrates.com> → select the “diseases” tab → enter “osteoporosis” into the search field → select “Treatment” tab → review content under “Approach,” focusing on “Diet and Lifestyle”]
 - The Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “osteoporosis” into the search field → select “osteoporosis” → select “Treatment” and review content. Be sure to review content regarding “preventing bone loss”]
- e** **eResource 9-6:** To reinforce your understanding of these medications, their effects and side effects, refer to the following resources on your mobile device:
- Epocrates: [Pathway: Epocrates → enter “Premarin” into the search field and review information. Repeat this activity with calcium carbonate, vitamin D, and Fosamax]
 - Skyscape’s RxDrugs: [Pathway: RxDrugs → enter “Premarin” into the search field and review information. Repeat this activity with calcium carbonate, vitamin D, and Fosamax]
 - Medscape: [Pathway: Medscape → enter “Premarin” into the search field and review information. Repeat this activity with calcium carbonate, vitamin D, and Fosamax]
- e** **eResource 9-7:** To reinforce patient teaching, the nurse consults Epocrates Online: [Pathway: <http://online.epocrates.com> → select the “diseases” tab → enter “osteoporosis” into the search field → select “treatment” tab → select “prevention” and review content related to primary and secondary prevention]
- e** **eResource 9-8:** To learn more about the risk factors associated with this injury, consult Epocrates Online: [Pathway: <http://online.epocrates.com> → select the “diseases” tab → enter “hip fracture” into the search field → under the “diagnosis” tab, select “risk factors” and review content]
- e** **eResource 9-9:** To support Vera’s understanding, the provider uses a mobile device to access Medscape and show her images depicting this type of fracture: [Pathway: Medscape → enter “hip fracture” into the search field → select “Intertrochanteric Hip Fractures” → select “Background” and click on images]

- e** **eResource 9-10:** To learn more about this surgical procedure, refer to:
- Medscape on your mobile device: [Pathway: Medscape → enter “hip fracture” into the search field → select “Intertrochanteric Hip Fractures” → select “Treatment & Management” and review content, focusing on “Intraoperative Details.” Be sure to view images]
 - Epocrates Online: [Pathway: <http://online.epocrates.com> → select the “diseases” tab → enter “hip fracture” into the search field → under the “Treatment” tab, select “Tx Details” and review content]
- e** **eResource 9-11:** For information about alternative methods for pain management, refer to AAOS’s publication *Alternative Methods to Help Manage Pain After Orthopaedic Surgery*: [Pathway: <http://orthoinfo.aaos.org> → select “Treatments & Surgeries” on the menu → scroll down and select “*Alternative Methods to Help Manage Pain After Orthopaedic Surgery*.” (NOTE: there is additional information here regarding complementary medicine)]
- e** **eResource 9-12:** To reinforce your understanding of these medications, their effects and side effects, refer to Medscape on your mobile device: [Pathway: Medscape → enter “Osteoporosis” into the search field → select “Medications” and review information]
- e** **eResource 9-13:** To reinforce discharge teaching, refer to Medscape on your mobile device: [Pathway: Medscape → enter “Osteoporosis” into the search field → select “Treatment & Management” and review information—focusing on “Dietary Measures,” “Physical and Occupational Therapy,” “Exercise,” and “Long-Term Monitoring”]

10

Nursing Care of the Patient With Infectious Diseases

- e** **eResource 10-1:** To reinforce your understanding of diagnostic influenza tests, refer to Medscape on your mobile device: [Pathway: Medscape → enter “influenza” into the search field → select “Diagnostic Influenza Tests” → select “Collection and Diagnostic Methods” and click on Tables. Be sure to review other information as well, particularly “considerations”]
- e** **eResource 10-2:** To help Ernest understand how he contracted influenza, refer to:

 - Medscape on your mobile device: [Pathway: Medscape → enter “influenza” into the search field → select “Diagnostic Influenza Tests” → select “Collection and Diagnostic Methods” and click on Tables. Be sure to review other information as well, particularly “considerations”]
 - Show Ernest the video, *What Is Influenza?*
<http://youtu.be/bNfU1K-VbDs>
- e** **eResource 10-3:** To reinforce your understanding of Tamiflu, refer to the following resources on your mobile device:

 - Epocrates: [Pathway: Epocrates → enter “Tamiflu” into the search field and review information]
 - Skyscape’s RxDrugs: [Pathway: RxDrugs → enter “Tamiflu” into the search field and review information]
 - Medscape: [Pathway: Medscape → enter “Tamiflu” into the search field and review information]
- e** **eResource 10-4:** As the nurse plans for Ernest’s discharge, the nurse reviews the following material:

 - Centers for Disease Control and Prevention’s (CDC’s) Seasonal Influenza (Flu) information: www.cdc.gov/flu/
 - Screening Questionnaire: www.immunize.org/catg.d/p4066.pdf
 - CDC Publications: www.cdc.gov/vaccines/pubs/vis/default.htm

- e** **eResource 10-5:** The nurse consults the American College of Physicians (ACP) recommended vaccinations to help keep Ernest healthy, for which she has downloaded the ACP Immunization Advisor (ACP-IA) “app” onto her mobile device (<http://goo.gl/NZQJB>): [Pathway: ACP-IA → select “find” → enter “age” and “condition” (Note: There are no special considerations for Ernest.) → select “Show Vaccines”]
- e** **eResource 10-6:** To provide supplemental instruction and reinforce the information being provided to Ernest, the nurse uses a mobile device to access CDC Mobile: [Pathway: <http://m.cdc.gov> → “Diseases and Conditions” → “Seasonal Flu”]
- e** **eResource 10-7:** For more information about prevention of influenza, refer to Epocrates Online: [Pathway: <http://online.epocrates.com> → select the “diseases” tab → enter “influenza” into the search field → select “Seasonal influenza” → under the “treatment” tab, select “prevention” and review content]
- e** **eResource 10-8:** To help Ernest understand why he needs to have a flu shot every year, the nurse shows him the following video, *Influenza: Get the (Antigenic) Drift*: <http://youtu.be/ug-M1nIhfIA>
- e** **eResource 10-9:** To reinforce your understanding of the clinical manifestations of tuberculosis, refer to:
- Medscape on your mobile device: [Pathway: Medscape → enter “tuberculosis” into the search field → select “Clinical Presentation” and review content]
 - Epocrates Online: [Pathway: <http://online.epocrates.com> → select the “Diseases” tab → enter “tuberculosis” into the search field → select “Tuberculosis (pulmonary)” review “Key Highlights” and “History” → “Exam”]
- e** **eResource 10-10:** To learn more about diagnostic procedures for tuberculosis, review:
- Medscape on your mobile device: [Pathway: Medscape → enter “tuberculosis” into the search field → select “tuberculosis” → select “Workup” and review content]
 - Epocrates Online: [Pathway: <http://online.epocrates.com> → select the “diseases” tab → enter “tuberculosis” into the search field → under the “Diagnosis” tab, select “tests” and review content]
 - The Merck Manual: [Pathway: www.merckmanuals.com → select “Merck Manual of Diagnosis and Therapy” → enter “tuberculosis” into the search field → select “tuberculosis” → select “Diagnosis” and review content]

- e** **eResource 10-11:** To learn more about causes of tuberculosis, review Medscape on your mobile device: [Pathway: Medscape → enter “tuberculosis” into the search field → select “tuberculosis” → select “Overview” and review content in “Background” and “Epidemiology”]
- e** **eResource 10-12:** For more information, consult the University of North Carolina Hospital’s *Understanding Isolation Precautions*: <http://goo.gl/3zBYP>
- e** **eResource 10-13:** To reinforce your understanding of the medications used to treat tuberculosis, refer to Medscape on your mobile device: [Pathway: Medscape → enter “tuberculosis” into the search field → select “Medication” → select “Antitubercular agents” and review content]
- e** **eResource 10-14:** To reinforce your understanding of the above medications, their effects and side effects, refer to the following resources on your mobile device:
- Epocrates: [Pathway: Epocrates → enter “Isoniazid” into the search field and review information. Repeat with the other medications]
 - Skyscape’s RxDrugs: [Pathway: RxDrugs → enter “Isoniazid” into the search field and review information. Repeat with the other medications]
 - Medscape: [Pathway: Medscape → enter “Isoniazid” into the search field and review information. Repeat with the other medications]
- e** **eResource 10-15:** To supplement the discharge teaching provided to Lambert, the nurse provides the following pamphlet, *Staying on Track With TB Medicine*: <http://goo.gl/So5LF>