

Covenant School of Nursing
Instructional Module 4 Learning Guide
Topic: Musculoskeletal System

Learning Goals/Outcomes

Upon completion of this lesson, you will be able to:

- Identify commonly occurring alterations in mobility, immunity, comfort, and grief related to the MS System
- Differentiate common assessment procedures used to examine musculoskeletal health in older adults
- Discuss diagnostic and laboratory tests to determine the individual's mobility and comfort status
- Build a nursing care plan using the nursing process and culturally competent and caring interventions for older adults with MS alterations in mobility, immunity, comfort, and grief.
- Categorize classes and side effects of medications prescribed for calcium replacement
- Plan pharmacologic therapy for various exemplars related to MS health

Pre-Class Preparation

Required:

- Read Lewis (11th Ed.): Ch. 61, pp. 1434-1443 (Assessment/Diagnostics); Ch. 62, pp. 1445-1447 (Sprains and Strains); pp. 1455-1461 (Nursing Management: Fractures; Complications of Fractures); pp. 1463-1466 (Hip Fracture; Nursing Management: Hip Fracture); pp. 1469-1472 (Amputation; Nursing Management: Amputation); Ch. 63, pp. 1478-1481 (Osteomyelitis; Nursing Management: Osteomyelitis); 1492-1495 (Osteoporosis; Nursing and Interprofessional Management: Osteoporosis); Ch. 64, pp. 1499-1505 (Osteoarthritis; Nursing Management: Osteoarthritis)
- Read Burcham & Rosenthal (Lehne's Pharmacology for Nursing Care, 10th Ed.): Ch. 75

Additional Resources:

- Potter/Perry (9th Ed.): Ch. 14; Ch. 50
- Elsevier Lehne website
- Extra Resources (pictures) in LMS

Learning Activities

Classroom Activities:

- Short Lectures- Exemplars of the Musculoskeletal System
- Audience Participation Questions
- Case Studies

Laboratory/Clinical:

- Integrate concepts of medication administration for musculoskeletal disorders into the clinical setting.

Computer Assisted Activities:

- HESI Material: See "HESI Across the Module"

Evaluation Methods

- Unit Exam
- Class participation in class case studies
- HESI Fundamentals Examination, proctored and non-proctored
- HESI Pharmacology

Time Allotments:		
Classroom	Laboratory	Out-of-Class Work
Texas DECs Knowledge II.A:1.a, b; 2.a,b; 3; 4; II.B:2; 4;5; 6; 7; 8; 9; 11; 12; II.C: 1.a, b; 2.a; 3;4a, b; 5; 6; 7; 8 II.D: 1.a, b, c, d; 2; 3 a; 4c; 5 a; IIE: 1.a; 2; 3. a, b;4.a; 6a, b;11. a, 12; II.F: 1, 2, 3IIG: 1.b; 2a, b; 3a Clinical Judgments and Behaviors I.A.1; 2; 3a., b ; IB: 2.a, b; 3.a, b, c;4.a, b, c; 5.a, c; 6.a, b, c; 7.a; 8; 9; IC.2; 3.a, b, c; 5; 6.a, b; I.D.1;3; 4; II.A.1; 2.a,b; 3, 4; II.B.1.a;2, 3. A, b; 4, 5, 6, 7, 8, 9a; II.C.1; 2, 3a, 4, 5, 6, 7; IID 2.a, b, c, d; 3. A, b, c; 4; II.E.1; 2, a, b, c; 3. A, b; 4, 5. A, b; 6. a, b, c, d; 7. a, b, c,; 8, 9. a, b; 10. a; 11, 12. a; II.F.1.a, b, c; 2 a, b; 3 a, b; 5a, b; II.G.1.a; 4, 5 a, 6a, 7; II.H.4.b;5.a, b, 6a; III.A.2; 3; 4; 5a; III.B.1, 2, 3a, b, c; III.B.2; 3a, b, c; 4, 5, 8, 0, III.C.1; 2a, b; III.D.1; 2; 3; III.E.1; 3; III.F.1; IV.A.1.a; IV.B.1.a, b; 2 a; 3 c; 5a, b; IV.C.1.a, b, c; 2 a, b, c; IV.D.1.a, b; 2a, 3a, b; 5; IV.E.1.a, b, c; 2a, b, c; 3a, 4		QSEN Competencies Patient Centered Care Teamwork and Collaboration Evidence-based Practice Quality Improvement Safety
IM Student Learning Outcomes 1/1; 2/2; 3/3; 4/4; 5/5; 7/7; 8/8		NCLEX Test Plan 1. Safe & Effective Care a. Management of Care i. Advocacy ii. Case Management iii. Client Rights iv. Collaboration v. Establishing Priorities vi. Ethical Practice vii. Legal rights and responsibilities 2. Health Promotion & Maintenance a. Safety and Infection Control i. Accident/Error/Injury Prevention ii. Home Safety iii. Reporting of Incident iv. Standard Precautions v. Use of Restraints b. Health Promotion & Maintenance i. Aging Process ii. Health Promotion iii. Lifestyle Choices iv. Self-Care v. Techniques of Physical Assessment 3. Psychosocial Integrity a. Psychosocial Integrity i. Behavioral Interventions ii. Coping Mechanisms iii. Grief and Loss iv. Sensory/Perceptual Alterations v. Support Systems vi. Therapeutic Communication 4. Physiological Integrity a. Basic Care and Comfort

	i. Assistive Devices ii. Elimination iii. Mobility iv. Non-Pharm Comfort Interventions v. Nutrition and Hydration b. Pharmacological and Parenteral Therapies i. Adverse Effects ii. Expected Outcomes iii. Medication Administration iv. Pharmacological Pain Management v. Parenteral/Intravenous Therapies c. Reduction of Risk Potential i. Changes in Vital Signs ii. Diagnostic Tests iii. Laboratory Values iv. Potential for Alterations in Body Systems v. Potential for Complications of Diagnostic Tests vi. Potential for Complications from Surgical Procedures vii. System Specific Assessments viii. Therapeutic Procedures d. Physiological Adaptation Alterations in Body Systems 1. Safe & Effective Care a. Management of Care i. Advocacy ii. Case Management iii. Client Rights iv. Collaboration v. Establishing Priorities vi. Ethical Practice vii. Legal rights and responsibilities 2. Health Promotion & Maintenance a. Safety and Infection Control i. Accident/Error/Injury Prevention ii. Home Safety iii. Reporting of Incident iv. Standard Precautions v. Use of Restraints b. Health Promotion & Maintenance i. Aging Process ii. Health Promotion iii. Lifestyle Choices iv. Self-Care v. Techniques of Physical Assessment 3. Psychosocial Integrity a. Psychosocial Integrity i. Behavioral Interventions ii. Coping Mechanisms iii. Grief and Loss iv. Sensory/Perceptual Alterations v. Support Systems vi. Therapeutic Communication 4. Physiological Integrity a. Basic Care and Comfort i. Assistive Devices ii. Elimination iii. Mobility iv. Non-Pharm Comfort Interventions v. Nutrition and Hydration b. Pharmacological and Parenteral Therapies i. Adverse Effects
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	ii. Expected Outcomes iii. Medication Administration iv. Pharmacological Pain Management v. Parenteral/Intravenous Therapies
	c. Reduction of Risk Potential i. Changes in Vital Signs ii. Diagnostic Tests iii. Laboratory Values iv. Potential for Alterations in Body Systems v. Potential for Complications of Diagnostic Tests vi. Potential for Complications from Surgical Procedures vii. System Specific Assessments viii. Therapeutic Procedures d. Physiological Adaptation
	5. Alterations in Body Systems Safe & Effective Care a. Management of Care i. Advocacy ii. Case Management iii. Client Rights iv. Collaboration v. Establishing Priorities vi. Ethical Practice vii. Legal rights and responsibilities
	6. Health Promotion & Maintenance a. Safety and Infection Control i. Accident/Error/Injury Prevention ii. Home Safety iii. Reporting of Incident iv. Standard Precautions v. Use of Restraints b. Health Promotion & Maintenance i. Aging Process ii. Health Promotion iii. Lifestyle Choices iv. Self-Care v. Techniques of Physical Assessment
	7. Psychosocial Integrity a. Psychosocial Integrity i. Behavioral Interventions ii. Coping Mechanisms iii. Grief and Loss iv. Sensory/Perceptual Alterations v. Support Systems vi. Therapeutic Communication
	8. Physiological Integrity a. Basic Care and Comfort i. Assistive Devices ii. Elimination iii. Mobility iv. Non-Pharm Comfort Interventions v. Nutrition and Hydration b. Pharmacological and Parenteral Therapies i. Adverse Effects ii. Expected Outcomes iii. Medication Administration iv. Pharmacological Pain Management v. Parenteral/Intravenous Therapies c. Reduction of Risk Potential i. Changes in Vital Signs ii. Diagnostic Tests iii. Laboratory Values

	iv. Potential for Alterations in Body Systems v. Potential for Complications of Diagnostic Tests vi. Potential for Complications from Surgical Procedures vii. System Specific Assessments viii. Therapeutic Procedures d. Physiological Adaptation i. Alterations in Body Systems ii. Fluid and Electrolyte Balances iii. Hemodynamics iv. Illness Management v. Medical Emergencies vi. Pathophysiology vii. Unexpected Response to Therapies
Concepts	Faculty
<i>Comfort, Immunity, Mobility, Grief</i>	<i>M. Rogers, MSN, RN</i>
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IM4 Learning Guide Topic: Concepts related to alterations in MS System

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