

Module Description: Adult Nursing - Musculoskeletal, Integument, Sensory Perception and Nervous Systems (21R01130105)

Module designation	Course Module
Semester(s) in which the module is taught	V
Person responsible for the module	Dr. Andina Setyawati, S.Kep., Ns., M.Kep (Coordinator) Prof. Dr. Elly L. Sjattar, S.Kp., M.Kes Dr. Takdir Tahir, S.Kep., Ns., M.Kes Saldy Yusuf, S.Kep., Ns., MHS., Ph.D Syahrul Ningrat, S.Kep., Ns., M.Kep., Sp.KMB Dr. Rosyidah Arafat, S.Kep., Ns., M.Kep., Sp.KMB Abdul Majid, S.Kep., Ns., M.Kep., Sp.KMB
Language	Bilingual, Bahasa Indonesia and English
Relation to Curriculum	This course is a compulsory course and offered in the 5 th semester.
Teaching Methods	Teaching methods used in this course are: <ul style="list-style-type: none"> - Lectures (discussions, collaborative learning, Project-Based Learning, Small Group Discussion (SGD), Role Play, and Case study). - Structured assignments (i.e., report) - Practice in Nursing Laboratory (i.e., Clinical Skill Lab) - Team based project during Clinical Fieldwork (i.e., field observation) <p>The class size for lecture is approximately 60 students, while for clinical skill lab is about 15 -20 students for each lecturer and clinical field work is about 7 – 10 students for each lecturer.</p>
Workload (incl. contact hours, self-study hours)	Contact hours for lecture is 40 hours, assignments are 48 hours, and practice are 48 hours. For this course, students are required to meet a minimum of 226.7 hours in one semester, which consist of: <ul style="list-style-type: none"> - 40 hours (equals with ECTS) for lecture, - 48 hours for structured assignments, - 48 hours for self-study hours, 90.67 hours for clinical skill laboratories and clinical fieldwork.
Credit points	5 credit points (equivalent with 7.56 ECTS)
Required and recommended prerequisites for joining the module	Students must have taken following courses: <ol style="list-style-type: none"> 1. Philosophy and Nursing Theory 2. Basic Concept in Nursing 3. Nursing Process and Critical Thinking 4. Basic Biomedical Science 5. Farmacology in Nursing 6. Basic Communication in Nursing 7. Psychosocial and Cultural in Nursing 8. Human Basic Needs Fulfillment 9. Basic Skills in Nursing 10. Basic Science in Nursing 11. Adult Nursing - Cardiovascular, Respiratory and Hemapoetic Systems

	12. Adult Nursing - Endocrine, Digestive, Urogenital and Immun Systems
Module objectives/intended learning outcomes	<p>After completing the course and given with a maternity nursing case, students will be:</p> <p>Attitude: CLO 1. Understand the concept and principles of advocacy, as well as legal, ethical, and cultural sensitivity aspects, in caring for adult clients with disturbances in the Musculoskeletal System, Integument, Sensory Perception & Nervous System (A).</p> <p>Knowledge: CLO 2. Provide nursing care for adult clients with disturbances in the Musculoskeletal System, Integument, Sensory Perception & Nervous System (K).</p> <p>Skill:</p> <p>Competence: CLO 3. Simulate nursing care for adult clients with cases of disturbances in the Musculoskeletal System, Integument, Sensory Perception & Nervous System, while considering legal and ethical aspects (C1). CLO 4. Demonstrate nursing care for adult clients with disturbances in the Musculoskeletal System, Integument, Sensory Perception & Nervous System (C1). CLO 5. Integrate research findings into nursing care for clients with disturbances in the Musculoskeletal System, Integument, Sensory Perception & Nervous System (C4). CLO 6. Apply critical thinking skills in providing nursing care and health education to adult clients with cases of disturbances in the Musculoskeletal System, Integument, Sensory Perception & Nervous System (C5).</p>
Content	<p>Students will learn about:</p> <ul style="list-style-type: none"> - Anatomy and physiology related to the nervous, musculoskeletal, sensory-perceptual, and integumentary systems. - Pathophysiology, pharmacology, nutrition, professional ethics, health education, primary, secondary, and tertiary prevention efforts for disorders of the nervous, musculoskeletal, sensory-perceptual, and integumentary systems. - Medical-surgical nursing care: nursing assessment (history taking, physical examination, diagnostic tests), data analysis, nursing diagnosis, nursing interventions, comprehensive implementation, and evaluation (biopsychosocial, sociocultural, spiritual) following Standard Operating Procedures that prioritize patient safety and evidence-based practice in the medical-surgical nursing field for disorders of the nervous, musculoskeletal, sensory-perceptual, and integumentary systems. - Trends, issues, and evidence-based practice in in the medical-surgical nursing field for disorders of the nervous, musculoskeletal, sensory-perceptual, and integumentary systems.

Examination forms	Written exam: Multiple Choice Questions using Vignettes. Oral examination Group presentation Case report Group presentation Reflective study Skill examination: Objective Structured Clinical Examination (OSCE)
Study and examination requirements	<ul style="list-style-type: none"> - Students must attend 15 minutes before the class starts. - Students must inform the lecturer if they will not attend the class due to sickness, etc. - Students must submit all class assignments before the deadline. - Students must attend all classes of clinical skill laboratories. - Student must attend the early clinical exposure. - Student must attend OSCE to get final clinical examination grade. - Students must attend the exam to get final grade. - Students must get final mark minimum of 40
Reading list	<ol style="list-style-type: none"> 1. Ackley, B. J., Ladwig, G. B., Makic, M. B. F., Martinez-Kratz, M. R., & Zanotti, M. (2019). Nursing diagnosis handbook E-book: An evidence-based guide to planning care. Elsevier Health Sciences. 2. Adams, M. P., Holland, L. N., & Urban, C. Q. (2014). Pharmacology for nurses. Pearson education, Inc. 3. Black J.M., Hawks J.H. (2014). Keperawatan Medikal Bedah: Manajemen Klinis untuk Hasil yang Diharapkan (3-vol set). Edisi Bahasa Indonesia 8. Singapore: Elsevier (S) Pte Ltd. 4. Dochterman, J. M., Wagner, C. M., Butcher, H. K., & Bulechek, G. M. (2018). Nursing interventions classification (NIC)-E-Book. Elsevier Health Sciences. 5. Potter, P. A., Perry, A. G., Stockert, P., Hall, A., & Castaldi, P. (2018). Study Guide for Essentials for Nursing Practice-E-Book. Elsevier Health Sciences. 6. Grodner M., Escott-Stump S., Dorner S. (2016) Nutritional Foundations and Clinical Applications: A Nursing Approach. 6th edition. St. Louis: Mosby Elsevier 7. Johnson, M., Moorhead, S., Bulechek, G. M., Butcher, H. K., Maas, M. L. & Swanson, S. (2012). NOC and NIC Linkages to NANDA-I and Clinical Conditions: Supporting Critical Reasoning and Quality Care, 3rd edition. Mosby:Elsevier Inc. 8. Lewis, S. L., Bucher, L., Heitkemper, M. M., Harding, M. M., Kwong, J., & Roberts, D. (2016). Medical-Surgical Nursing-E-Book: Assessment and Management of Clinical Problems, Single Volume. Elsevier Health Sciences. 9. Moorhead, S., Swanson, E., Johnson, M., & Maas, M. L. (2018). Nursing Outcomes Classification (NOC)-e-book: Measurement of health outcomes. Elsevier Health Sciences. 10. Nanda International. (2014). Nursing Diagnoses 2015-17: Definitions and Classification (Nanda International). Philladelphia: Wiley Blackwell 11. Setyawati, A., Wahyuningsih, M. S. H., Nugrahaningsih, D. A. A., Effendy, C., Fneish, F., & Fortwengel, G. (2021). Piper crocatum Ruiz & Pav. ameliorates wound healing through p53, E-cadherin and SOD1 pathways on wounded hyperglycemia fibroblasts. Saudi Journal of Biological Sciences, 28(12), 7257-7268.

	<p>12. Yusuf, S., Okuwa, M., Shigeta, Y., Dai, M., Iuchi, T., Rahman, S., ... & Sanada, H. (2015). Microclimate and development of pressure ulcers and superficial skin changes. <i>International wound journal</i>, 12(1), 40-46.</p> <p>13. Tarigan, S., Yusuf, S., & Syam, Y. (2021). Effect of interface pressure and skin surface temperature on pressure injury incidence: a turning schedule pilot study. <i>Journal of Wound Care</i>, 30(8), 632-641.</p> <p>14. Tahir, T., Febrianti, N., Wahyuni, S., & Syam, Y. (2020). Evaluation of acute wound healing potential of red dragon fruit (<i>Hylocereus Polyrhizus</i>) extract cream on type III collagen and epidermal growth factor (EGF) levels: An animal study. <i>Medicina Clinica Practica</i>, 3, 100091.</p> <p>15. Sjattar, E. L., & Arafat, R. (2021). Transtheoretical model on the self-care behavior of hypertension patients: a systematic review. <i>Journal of Health Research</i>, 36(5), 847-858.</p> <p>16. Arafat, R., Ratna, S., & Majid, A. (2018). Spiritual coping in people living with stroke. <i>Int. J. Caring Sci</i>, 11(2), 658-62.</p>
Cluster of Competence	Basic biomedical and nursing sciences
Form of Assessments	<ul style="list-style-type: none"> - Class/group participation (5%) - Class attendance (10%) - Assignment: Case study report (25%), Team-based project report 2 (25%). - Written Test (15%) - Quiz (5%) - OSCE (15%)
Date of last amendment made	July 2021

Course Learning Outcome Assessment of Learning Outcomes for Course Modules

Course Module Name : Adult Nursing - Musculoskeletal, Integument, Sensory Perception and Nervous Systems.
Code : 21R01130105
Semester : V
Person responsible for the module : Dr. Andina Setyawati, S.Kep., Ns., M.Kep
Lecturers : Prof. Dr. Elly L. Sjattar, S.Kp., M.Kes
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 Abdul Majid, S.Kep., Ns., M.Kep., Sp.KMB

Intended Learning Outcomes	Course Module Objectives	List of Assessments	List of Rubrics
<p>Attitude (A):</p> <p>Nursing graduates are individuals who are pious and maritime spirited, exhibit professional behaviors, ethical principles, legal perspective, and embrace culturally sensitive aspects in nursing.</p>	<p>After completing the course and given with an adult nursing case, students will be:</p> <p>CLO1: Understand the concept and principles of advocacy, as well as legal, ethical, and cultural sensitivity aspects, in caring for adult clients with disturbances in the Musculoskeletal System, Integument, Sensory Perception & Nervous System (A).</p>	<p>Class participation</p> <p>Class attendance (Reflects the student's compliance with the agreed upon course contract)</p>	<p>Rubric for class participation</p> <p>Student attendance register</p>

Intended Learning Outcomes	Course Module Objectives	List of Assessments	List of Rubrics
<p>Knowledge (K):</p> <p>Nursing graduates master nursing science and also information system and technology to provide patients with nursing care based on scientific nursing process and approaches</p>	<p>Knowledge:</p> <p>CLO2: Provide nursing care for adult clients with disturbances in the Musculoskeletal System, Integument, Sensory Perception & Nervous System (K)</p>	<p>Assignment:</p> <ul style="list-style-type: none"> - Case study report : Students are asked to compile a nursing care report according to the case obtained, using applicable nursing care standards. - Mind mapping: Students are asked to review anatomy and physiology learning materials related to Musculoskeletal, Integument, Sensory Perception and Nervous Systems and then summarize it in the form of a mind map. <p>Written exam: Multiple Choice Questions using Vignettes.</p> <ul style="list-style-type: none"> - Mode of delivery: Online through Learning Management System (LMS) & paper-based exam. - Total number of questions: 100. - Each question must be completed within 1 minute. - Duration of exam: 100 minutes. <p>Individual and group presentation</p>	<p>Rubric for Multiple Choice Questions</p> <ul style="list-style-type: none"> - Scored 1, if the answer is correct. - Scored 0, if the answer is wrong. - Final grade= Total corrected items divided by total items multiply 100. <p>Rubric for case study report</p> <p>Rubric for mind mapping</p> <p>Rubric for Presentation</p>

Intended Learning Outcomes	Course Module Objectives	List of Assessments	List of Rubrics
<p>Competence (C1):</p> <p>Graduates are able to provide comprehensive and continuous nursing care that ensures research-based patient safety in accordance to nursing care standards in all areas of nursing particularly of diseases that are common in Indonesia as a tropical and maritime country.</p>	<p>Competence:</p> <p>CLO 3. Simulate nursing care for adult clients with cases of disturbances in the Musculoskeletal System, Integument, Sensory Perception & Nervous System, while considering legal and ethical aspects (C1).</p>	<p>Clinical Skill Lab Mastery:</p> <p>Health history assessment & examination of cranial nerves and GCS, Physiological and pathological reflex examination, and seizure precautions, Dysphagia screening and meningeal stimulation examination, Health history assessment & Physical examination of the musculoskeletal system, Procedures for fixation and immobilization of the musculoskeletal system (Bandaging and Splinting Techniques), Active and passive ROM exercise procedures, Procedures for traction and cast care, Procedures for post-OREF and ORIF wound care, Body movement / body mechanics and early ambulation procedures, Health history assessment & Examination of visual function (tonometry, visual acuity examination) and hearing, Ear Drop Administration, Ear Irrigations, Eye Irrigation, Eye Medications: Drops and Ointment, Health history assessment & Physical examination of the integumentary system (Wound Assessment), Dressings, Procedures for Burn Wound Care Preparation and Management, Topical Skin Applications, Pressure</p>	<p>Rubric for Clinical Skill Lab Observation</p> <p>Rubric for poster presentation</p> <p>Rubric for poster assessment</p>

Intended Learning Outcomes	Course Module Objectives	List of Assessments	List of Rubrics
		<p>Ulcer Risk Assessment and Pressure Ulcer.</p> <p>Objective Structured Clinical Examination (OSCE)</p> <p>Assignment:</p> <p>Students create posters about health education related to adult nursing. The posters are presented in front of the class and then revised based on feedback from the faculty team. The revised posters are then used for direct patient education during the early clinical exposure stage.</p>	
	<p>CLO 4. Demonstrate nursing care for adult clients with disturbances in the Musculoskeletal System, Integument, Sensory Perception & Nervous System (C1).</p>	<p>Assignment</p> <p>During the early clinical exposure period, students are given tasks to assess patients, analyze data, formulate nursing diagnoses, determine nursing intervention plans, and implement non-invasive interventions that can be performed by students. The results are reported in groups in the form of a complete nursing care report.</p>	<p>Rubric for nursing care report</p>

Intended Learning Outcomes	Course Module Objectives	List of Assessments	List of Rubrics
<p>Competence (C4):</p> <p>Graduates are able to improve the quality of nursing and health services by implementing research skills and integrating nursing theories into practices.</p>	<p>CLO 5. Integrate research findings into nursing care for clients with disturbances in the Musculoskeletal System, Integument, Sensory Perception & Nervous System (C4).</p>	<p>Assignment:</p> <p>Students are asked to compose a paper on trends and issues, as well as evidence-based nursing practices in adult nursing.</p>	<p>Rubric for paper</p> <p>Rubric for group presentation</p>
<p>Competence (C5):</p> <p>Graduates are able to improve professional expertise in nursing field through long life learning.</p>	<p>CLO 6. Apply critical thinking skills in providing nursing care and health education to adult clients with cases of disturbances in the Musculoskeletal System, Integument, Sensory Perception & Nervous System (C5).</p>		

Proportion of assessment aspects according to the course learning outcomes.

No	Code	CLO	Sub CLO	Learning Method	Metode Evaluasi						Proporsi
					Participatory Analysis	Project result	Assignment	Quis	Mid-test	Final Test	
1	A	CLO 1	Sub CLO 1	Lectures, discussions, case method	Multisource feedback 2.5%		Assignment: Mind Map 5%			Final test: MCQ 2.5%	10%
			Sub CLO 2	Case method							
2	K	CLO 2	Sub CLO 3		Multisource feedback 2.5%	Project report 5%				Final test: MCQ 5%	12.5%
3	C1	CLO 3	Sub CLO 4	Team-based project: creating nursing care report from cases	Multisource feedback 5%	Assignment 3: Team-based project 20%				Final test: MCQ 5%	30%
4	C4	CLO 4	Sub CLO 5	SGD, group presentation	Multisource feedback 3.5%	Assignment 4: Team-based project: creating a complete nursing care report 9%				OSCE 15%	
5	C5	CLO 5	Sub CLO 6								5%
			Sub CLO 7	Team-based project: Early Clinical Exposure.	Multisource feedback 4%	Individual-based project report 16%					
TOTAL					20%	50%				30%	100%

Example of Written Test Exam

1. A 20-year-old man is being treated in the neurology ward with complaints of dizziness and nausea. From the assessment results, it was found that his Glasgow Coma Scale (GCS) score is 10, pupils are of equal size, blood pressure is 150/90 mmHg, heart rate is 85 beats per minute, respiratory rate is 24 breaths per minute, temperature is 38°C, headache pain scale is 6, and the CT scan shows cerebral edema in the temporal area. Currently, he is on 2 liters/minute of nasal cannula oxygen.

What is the appropriate nursing intervention for the case above?

- a. Elevate the head by 30 degrees.
 - b. Provide a semi-fowler position.
 - c. Range of motion (ROM) exercises.
 - d. Apply warm compress.
 - e. Monitor signs of increased intracranial pressure (ICP).
2. A 32-year-old woman, G2 P1 A0 H 39 weeks came to the delivery room with heartburn. Patients had heartburn for the last 4 hours at home. The physical examination found 4 cm, the location of the buttocks, membranes are still intact. Suddenly, the membrane breaks. Patient has no complications history in previous partus. What is the next nursing intervention? **(CLO2)**
 - a. Check fetal heart rate
 - b. Perform vaginal touché
 - c. Report to the doctor
 - d. Lead labor
 - e. Left tilt position
 3. A 50-year-old man is being treated for decreased consciousness. The GCS assessment shows a score of 10, asymmetric mouth (deviated to one side), a nasogastric tube (NGT) is inserted, and there is a right-sided hemiparesis. The CT scan reveals an epidural hematoma with midline shift. The plan is to perform surgery tomorrow. The patient is receiving 4 doses of 150 cc of mannitol. After administering 150 cc of mannitol, the nurse is observing its effects. What evaluation is expected?
 - a. Balance fluid equilibrium
 - b. Increased consciousness
 - c. Lips return to normal
 - d. No hemiparesis
 - e. Postpone surgery