



NURSING

2022 - 2023

SUMMER SEMESTER

UNDERGRADUATE / BACHELOR

COURSE INFORMATION	
	Anesthesiology reanimation and intensive care
Degree	Bachelor
Semester	Summer
ECTS points	3
Course status	Compulsory
Course leader	Dubravka Bartolek Hamp, PhD Assistant professors Morena Milić, PhD Assistant Professor
Department, room no.	
Phone	+385 345 111
e-mail	dbartolerkh@gmail.com morena.milic@gmail.com
COURSE DESCRIPTION	
Course content	
<p>Historical review of anesthesiology. An importance of diagnosis and surgical indications on choice of anesthesia. Preoperative anesthesiologic review. Assessment of the risk of anesthesia (ASA classification). The role of nurse in pre-anesthesia time:how to prepare a patient for specific anesthesiologic procedure. The most important differences between general and regional anesthesia. Techniques of general anesthesia: inhalation and intravenous anaesthesia. Basics of regional anesthesia differentiation: peripheral nerve blocks and neuroaxial anesthesia. Recovery room. The basic of anesthetics. Analgesics: opiates and non-opiates. Monitoring in- and after- anesthesia procedures. Non-invasive and invasive monitoring in anesthesia. Characteristics of hemodynamic monitoring. Complications in anesthesia and their management. Principles of analgesia sedation in diagnostic and intervention procedures.</p>	

Causes of acute respiratory insufficiency. Specifics of difficult airway management. High-risk anesthesia patients. Cardiac arrest and reanimation during anesthesia. Non-invasive and invasive mechanical ventilation. Oxygenation of patients. Basis of intensive care unit (ICU). ICU scoring systems (APACHI, EWS, GCS). Principles of intensive therapy of patients in JIL: the role of a nurse. Multi-organ failure syndrome. The basis of acute and chronic pain management.

Learning outcomes

After attending the course the student will be able to: 1) complete the final documentation of the patient, needed for an anesthesiologist examination 2) recognize the risk of anesthesia according to the ASA classification 3) inform about the patient last intake of liquid and food 4) prepare patients for for general or/and regional anesthesia 4) differentiate premedication from other patient therapy; to know the importance of its timely application, observe the basic characteristics of the most common anxiolytics; identify the basic signs of good premedication 5) to distinguish the general anesthesia from regional anesthesia, the regional nerve block of neuroaxial anesthesia; to know the difference between anesthesia, analgesia and analog-sedation 6) recognize the life-threatening conditions of the patient; apply basic skills of life support in hospital and outside-hospital conditions 7) apply non-invasive patient monitoring and explain the basic significance of parameters 8) follow and evaluate the effectiveness of applied acute and chronic pain therapy 9) identify the baseline of patient in intensive care unit (ICU) 10) explain the specificity of the work in the intensive care unit

TEACHING MODE

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|---|---|
| <input checked="" type="checkbox"/> Lectures | <input checked="" type="checkbox"/> Consultations |
| <input type="checkbox"/> Seminars and workshops | <input type="checkbox"/> Laboratory |
| <input checked="" type="checkbox"/> Exercises | <input type="checkbox"/> Field work |
| <input checked="" type="checkbox"/> Independent assignments | <input type="checkbox"/> Mentoring |
| <input type="checkbox"/> Multimedia and internet | <input type="checkbox"/> Exams |
| <input type="checkbox"/> Distance learning | |

EXAMINATION METHOD

<input type="checkbox"/> Oral <input checked="" type="checkbox"/> Written <input type="checkbox"/> Partial exam	Other:
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READING

Compulsory reading

1.	Morgan & Mikhail's: Clinical anesthesiology 5ed. McGraw Hill, 2013
2.	Marino P. L., Sutin K. M.: The ICU Book. Third Edition. Lippincott Williams & Wilkins – a WoltersKluwer business. Philadelphia, 2014

Optional reading

1.	Chulay M., Burns S.M, American Association Of Critical-Care Nurses Aacn.: AACN Essentials of Critical-Care Nursing Pocket Handbook. McGraw-Hill Medical, 2010
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LIST OF TOPICS

No.		Hours		
		L	E	S
1.	Historical Review	0	1	0
2.	Types and characteristics of anesthesia and anesthetics Complications of anesthesia	2	2	0
3.	Pre-anesthesia assessment: ASA classification of anesthesia risk. The importance of patient's inform consent beafore anestheisa	0	2	0
4.	Induction and conduction of anesthesia. Anesthesia monitoring.	1	2	0
5.	Recovery room: controlled recovery from anesthesia	1	1	0
6.	Specificites of intravenous route in anesthesia;	0	2	0

	Infusion and transfusion in anesthesia			
7.	Basics of airway management and ventilation during anesthesia	0	1	0
8.	The basics of alleviating acute and chronic pain;	1	1	0
9.	The alleviation of acute and chronic pain: role of a nurse			
10.	Causes of the heart failure in anesthesia	0	1	0
11.	Loss of breathing function; intubation and mechanical ventilation, oxygenation methods	1	2	0
12.	Disorders of consciousness and coma	1	1	0
13.	Brain death. Ethical principles in anesthesia and transplant surgery	1	0	0
14.	Characteristics of basic and advanced life support	1	2	0
15.	Definition of intensive care unit (ICU): organization and evidence-base medicine	1	2	0
TOTAL HOURS		15	30	0
OTHER RELEVANT INFORMATION				
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COURSE INFORMATION	
	Pain management
Degree	Bachelor
Semester	Summer
ECTS points	3
Course status	Compulsory
Course leader	Dubravka Bartolek Hamp, PhD Assistant professors, Anita Vuković, MD
Department, room no.	
Phone	+385 345 111
e-mail	dbartolerkh@gmail.com
COURSE DESCRIPTION	
Course content	
<p>Definition of pain: anatomy, physiology and pathophysiology of pain. Pain as a vital sign: the impact of pain on the systemic response of the organism. Procedures for subjective and objective pain assessment: pain scales, selection and interpretation of findings. Estimation of pain characterization and localization with its causes and early diagnosis. Pharmacological and non-pharmacological methods in pain management. Regional analgesia in the treatment of acute and chronic pain. Basics of Acute and Chronic Pain Management (WHO Guidelines). Objectivisation of pain intensity (NMR scale). Multimodal approach in pain therapy. Opioid analgesics in acute and chronic pain. Non-opioid analgesics: advantages and disadvantages. A pathways and methods of analgesic use: fractionated and continuous analgesia. Adjuvant drugs in treating pain: the role and the meaning. Tolerance to analgesia. Mental and physical dependence. Treatment of pain in geriatric patients. Psychological aspects of pain.</p>	
Learning outcomes	

After attending the course the student will be able to: 1) define the pain and the impact of pain on the general clinical condition of the patient 2) analyze and evaluate pain intensity on a NMR scale of 0-10 3) know and monitor the effect of pharmacological and nonpharmacological methods in the treatment of the pain 4) monitor the effectiveness of applied pain therapy with familiarity with analgesic action and possible side effects 5) identify the complication of pain therapy 6) recognize psychological aspects of pain 6) develop the empathy in real needs of patients who suffer several pain.

TEACHING MODE

<input checked="" type="checkbox"/> Lectures	<input checked="" type="checkbox"/> Consultations
<input type="checkbox"/> Seminars and workshops	<input type="checkbox"/> Laboratory
<input checked="" type="checkbox"/> Exercises	<input type="checkbox"/> Field work
<input checked="" type="checkbox"/> Independent assignments	<input checked="" type="checkbox"/> Mentoring
<input type="checkbox"/> Multimedia and internet	<input checked="" type="checkbox"/> Exams
<input type="checkbox"/> Distance learning	

EXAMINATION METHOD

<input type="checkbox"/> Oral	Other:
<input checked="" type="checkbox"/> Written	
<input checked="" type="checkbox"/> Partial exam	

READING

Compulsory reading

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| 1. | Brook P, Connell J, Pickering T. Oxford Handbook of Pain Management. Oxford University Press, New York, 2011 |
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Optional reading

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| 1. | Sinatra RS, et al. Acute Pain Management. Cambridge University Press, New York, 2009 |
| 2. | McMahon SB, et al. Textbook of Pain. Elsevier Saunders, Philadelphia, 2013 |

LIST OF TOPICS				
No.		Hours		
		L	E	S
1.	Pain definition, characteristics and objectivity.	1	1	0
2.	Neuroanatomy and physiology of pain.	1	1	0
3.	Basic characteristics of acute and chronic pain	1	0	0
4.	Pharmacological and non-pharmacological methods of pain management	1	1	0
5.	Application techniques of analgesics therapy	1	1	0
6.	Acute pain: pathophysiology and basics of management	1	1	0
7.	Management of acute postoperative pain	1	1	0
8.	„Acute pain servis“ in clinical praxis: evidence-based medicine	2	2	0
9.	Chronic pain: pathophysiology and specific approach	1	2	0
10.	An analgesic approach to a patient with malignant pain	1	1	0
11.	Neuropathic pain	1	1	0
12.	Analgesics in patients with opioid dependence and substance abuse	1	1	0

13.	Adverse effects of pain therapy	1	1	0
14.	The nurse's perspective on acute and chronic pain management	1	1	0
TOTAL HOURS		15	15	0
OTHER RELEVANT INFORMATION				
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COURSE INFORMATION	
	Psychiatry and mental health
Degree	Bachelor
Semester	Summer
ECTS points	2
Course status	Compulsory
Course leader	Ivana Bakija, MD, psychiatrist. Mara Tripković, MD, PhD, psychiatrist
Department, room no.	
Phone	
e-mail	ivana.bakija1969@gmail.com ivana.bakija@pbsvi.hr mara.tripkovic@gmail.com

COURSE DESCRIPTION

Course content

- ⊙ Introduction to psychiatry, basics of psychopathology, organic origin mental disorders, mental and behavioral disorders as a consequence of the use of psychoactive substances.
- ⊙ Schizophrenia, schizotypal and other delusional disorders, affective and mood disorders, personality disorder and various stress related neurotic disorders.
- ⊙ Mental retardation, psychological development disorders, behavioral and emotional disorders in childhood and adolescence.
- ⊙ Urgent conditions in psychiatry.
- ⊙ Modern organization of psychiatric services.
- ⊙ Basics of different approaches in psychiatry, psychopharmacotherapy.
- ⊙ Socio-legal status of the mentally ill patients and their rights.

Learning outcomes

- ⊙ Being able to recognize general psychopathology (disorders of consciousness, communication, attention, perception or psychomotor; disorders of thinking; various disorders of mood and affect; disorders of will; disorders of mnemonic or intellectual abilities; disorders of instinct and various memory disorders)
- ⊙ Approach the mentally ill independently, being able to define the role of the nurse in keeping medical records and identify the basic classification of mental illnesses;
- ⊙ Assess the appropriate approach to mentally ill patients (approach to a psychotic patient; to a manic patient; approach to a depressed patient, or a delirious patient, specific approach to a dementia patients, aggressive patient or to a suicidal patient);
- ⊙ Name basic psychopharmaceuticals and identify all serious drug side effects; define and recognize possible predictors of mental disorders.

TEACHING MODE

Lectures

Seminars and workshops

Consultations

Laboratory

<input checked="" type="checkbox"/> Exercises <input type="checkbox"/> Independent assignments <input type="checkbox"/> Multimedia and internet <input type="checkbox"/> Distance learning		<input type="checkbox"/> Field work <input checked="" type="checkbox"/> Mentoring <input type="checkbox"/> Exams		
EXAMINATION METHOD				
<input type="checkbox"/> Oral <input checked="" type="checkbox"/> Written <input checked="" type="checkbox"/> Partial exam		Other:		
READING				
Compulsory reading				
1.	Alan Stoudemire. Clinical Psychiatry for medical students. Lippicott-Raven, 3th edition, 2019.			
2.	Kaplan and Sadock's. Comprehensive Tekstbook of Psychiatry. Wolters Kluwer, 10th edition, 2019.			
3.	Sheila L. Videbeck. Psychiatric – Mental health nursing. Wolters Kluwer, 7th edition, 2017.			
Optional reading				
1.	Donald W. Black and Nany C. Andreasen. Introductory Textbook of Psychiatry. DSM-5 Edition. 2019.			
2.	David Semple and Roger Smith. Oxford Handbook of Psychiatry. Oxford, 2017.			
LIST OF TOPICS				
No.		Hours		
		L	E	S
1.	General part, definitions, hystory of psychiatry, general psychopatology	3	0	0

2.	Affective disorders and bipolar disorder	3	0	0
3.	Schizophrenia and other psychotic disorders	3	0	0
4.	Alcoholism, addiction of psychoactive substances, gambling addiction	3	0	0
5.	Dementia	3	0	0
6.	Personality disorders, Eating disorders	3	0	0
7.	Anxiety and other stress disorders, PTSD	3	0	0
8.	Urgent psychiatry, Suicidology, Sleep disorders	3	0	0
9.	Child and adolescent psychiatry	3	0	0
10.	Forensic psychiatry	3	0	0
TOTAL HOURS		30	0	0
OTHER RELEVANT INFORMATION				
<p>Student attendance at lectures and practicals is mandatory. 60% for lectures and 70% for practicals. The quality of the programme, teaching process, teaching skills and level of mastery over the given material will be established by conducting a written evaluation based on questionnaires and other standard tests, all in accordance with the acts of the Dubrovnik University (based on the student survey on the quality of teaching activities and teacher self – analysis)</p> <p>The evaluation is anonymous, through an online survey on the quality of teaching activities, which contains a prescribed number of questions with the possibility of providing open comments. It is conducted two times during the school year: at the end of each term for one term courses, and again at the end of the school year for two term courses, in any case before the exam deadlines.</p>				

CLINICAL NURSING

SUMMER SEMESTER- MASTER LEVEL

COURSE INFORMATION	
	Geriatrics – medicine of older age
Degree	Master
Semester	Summer
ECTS points	3
Course status	Compulsory
Course leader	Ivana Bakija, MD, psychiatrist Mara Tripković, MD, PhD, psychiatrist
Department, room no.	
Phone	0912015687
e-mail	ivana.bakija1969@gmail.com ivana.bakija@pbsvi.hr tripkovicm@yahoo.com
COURSE DESCRIPTION	
Course content	
<p>Introduction, theories of aging, biology of aging, functional and somatic changes, biochemical changes of plasma in old age;</p> <ul style="list-style-type: none">- specifics of the use and application of certain groups of drugs in the elderly;- interactions and effects of using number of drugs and their side effects, drug testing and general principles of drug use in the elderly;- endocrinological and metabolic diseases, hormonal laboratory diagnostics in old age;- cardiovascular disease in old age;	

- diseases of the respiratory tract and lung tissue in old age;
- various infectious diseases in old age;
- stomatognathic and digestive systems diseases and nutrition in old age;
- urogenital system diseases in old age;
- haematological and oncological diseases specific for old age;
- drug administration, individual drug dosing, drug poisoning, specifics of the elderly patients in the intensive care;
- specifics of surgical, neurosurgical and anaesthetic features of treatment, road accidents, various risks of noncardiac surgery in elderly patients with heart disease;
 - neurological and psychiatric diseases in old age;
- psychology of aging;
- sensory organs disease in old age;
- skin disease in old age;
- biomechanics, orthopaedic and rheumatic diseases and rehabilitation; physical exercise in old age;
- specific socio-medical problems and health care needs in old age;
- nursing care of elderly patients, geriatric palliative medicine;
- geroprophylaxis;
- demography of Croatia.

Learning outcomes

Completing the course will enable students to:- understand the biology of aging and its relationship to the clinical incidence of the elderly patients;- have adequate knowledge of the physiology of aging;- have knowledge of demographic data on aging;- have knowledge of pharmacology in order to understand the basic principles of prescribing drugs for the elderly with special emphasis on the occurrence of side effects and iatrogenic diseases and polypragmatism;- be able to recognize the roles of psychosocial risk factors in the onset and experience of the

disease;- be able to recognize the importance of family support;- to be able to recognize prevention and rehabilitation as the main goals of geriatric medicine;- to understand multidisciplinary and holistic approach in care for the elderly;- know how to deal with major geriatric problems such as falls, incontinence, dementia and depression;- develop positive attitudes about aging, contrary to negative stereotypes;- be able to recognize ethical issues, including care in the terminal phase of life;- have knowledge in the field of pathogenesis, clinical picture and therapy of the most common diseases and conditions that occur in old age;- identify models of care for the elderly;- understand the methods of geriatric and gerontological health care and active participation in teamwork.

TEACHING MODE

- | | |
|---|--|
| <input checked="" type="checkbox"/> Lectures

<input checked="" type="checkbox"/> Seminars and workshops

<input type="checkbox"/> Exercises

<input type="checkbox"/> Independent assignments

<input checked="" type="checkbox"/> Multimedia and internet

<input type="checkbox"/> Distance learning | <input checked="" type="checkbox"/> Consultations

<input type="checkbox"/> Laboratory

<input type="checkbox"/> Field work

<input checked="" type="checkbox"/> Mentoring

<input type="checkbox"/> Exams |
|---|--|

EXAMINATION METHOD

- | | |
|---|--------|
| <input checked="" type="checkbox"/> Oral

<input checked="" type="checkbox"/> Written

<input checked="" type="checkbox"/> Partial exam | Other: |
|---|--------|

READING

Compulsory reading

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|----|--|
| 1. | John Pathy, Alan Sinclair and John Morly. Principles and practice of Geriatric medicine. Wiley, 4th edition, 2019. |
| 2. | Rosenthal, Nangthon and Wiliams. Office Care Geriatrics. Lippicott Williams & Wilkins. 2018 |

Optional reading

1.	Jayna Holroyd-Leduc and Madhury Reddy. Evidence - Based Geriatric Medicine. A practical Clinical guide. Wiley Blackwell. 2020.
2.	Mitchell King and Martin Lipsky. Step-up to Geriatrics. Wolters Kluwer. 2020.
3.	Mezey DM, Fulmer T, Abraham I, Zwicker DA. Geriatric Nursing Protocols for Best Practice. New York, Springer; 2003.
4.	Cassel, Leipzig, Cohen, Larson and Meier. Geriatric Medicine – An evidence-based approach. Springer, 2003.

LIST OF TOPICS

No.		Hours		
		L	E	S
1.	Introductory lecture, general concepts from geriatrics and gerontology, aging processes, healthy and sick aging	3		
2.	Biological processes of aging, pathophysiology of aging, psychology of aging	3		
3.	An overview of important gerontological changes by organ systems Combination of age involving changes with emphasis on pathological changes in elderly patients. Comorbidity and multimorbidity in geriatrics	3		
4.	Common geriatric diseases (hypertension, cardiovascular, cerebrovascular, neurological, diabetes, oncological, osteoporosis, urinary incontinence, rheumatic diseases)	3		
5.	Psychogeriatrics (dementia, Alzheimer's dementia, Parkinson's disease, depression in the elderly, delirium and organic psychosyndrome)	5		
6.	Dehydration and eating disorders in the elderly Specifics of drug administration and use in geriatrics Interdisciplinary approach in geriatrics	3		

7.	Biopsychosocial approach to the geriatric patients Changes in social interrelations in old age, combination of social and medical problems	3		
8.	Attitudes and prejudice towards the elderly, including special problems of the elderly Psychological approach in care for the elderly, communication with the elderly with reduced cognitive abilities	4		
9.	Providing general health care, models in health care in geriatrics and advice on maintaining quality of life	2		
10.	Dying patient and hospice, palliative care	1		
TOTAL HOURS		30		

OTHER RELEVANT INFORMATION

Student attendance at lectures and practicals is mandatory. 60% for lectures and 70% for practicals.

The quality of the programme, teaching process, teaching skills and level of mastery over the given material will be established by conducting a written evaluation based on questionnaires and other standard tests, all in accordance with the acts of the Dubrovnik University (based on the student survey on the quality of teaching activities and teacher self – analysis)

Self-observation, analysis and corrections are included.