

# Pomorski Uniwersytet Medyczny w Szczecinie

## COURSE SYLLABUS

### General information

Course title : NEONATOLOGY	
Type of course	Mandatory
Name of the Faculty of PUM	FACULTY OF MEDICINE AND DENTISTRY
Field of study	Medicine
Specialization	
Level of study	long-term studies
Form of study	full-time
Year of study /semester	V
Number of allocated ECTS credits	1
Forms of teaching (number of hours)	lectures/practical classes
Ways of verifying and assessing learning outcomes	- graded credit: <input type="checkbox"/> Descriptive X test <input type="checkbox"/> practical X oral
Head of Unit	Dr hab. n. med. Beata Łoniewska , Prof. of the PUM
Person responsible for the course	Dr. n. med. Barbara Michalczyk barbara.michalczyk@pum.edu.pl, Tel: 91 4661367
Name and contact details of unit	Department of Neonatal Pathology PUM, 70-111 Szczecin, Ul. Powstańców Wielkopolskich 72
Unit's website	<a href="https://www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/klinika-patologii-">https://www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/klinika-patologii-</a>

	noworodka
Language of instruction	Polish/English

### Detailed information

Course objectives	<p>The objective of the course is for students to learn to differentiate between the physiological states of the neonatal period and the pathology associated with this period, to acquire the ability to assess the maturity of the neonate and the problems arising from complications associated with pregnancy and the associated risks to the child.</p> <p>The didactic programme includes a physical examination and taking the mother's history, discussing clinical problems concerning the healthy newborn, the preterm neonate and the newborn at perinatal risk (perinatal trauma, hypoxic-ischaemic encephalopathy, infections, haematological and metabolic problems) and the newborn requiring treatment in the intensive care unit (methods of respiratory support, use of surfactant, management of life-threatening conditions) with particular emphasis on early and late complications.</p>
Initial requirements	<p>Knowledge</p> <p>Assessment of the condition of the newborn at birth.</p> <p>Principles of neonatal resuscitation.</p> <p>Transitional states of the neonatal period.</p> <p>Principles of natural feeding, contraindications.</p> <p>Features of prematurity, health problems of preterm infants.</p> <p>Principles of respiratory support in neonates.</p> <p>Problems of early infections.</p> <p>Prevention of nosocomial infections-aseptic principles in the neonatal unit.</p> <p>Nursing problems in newborns.</p> <p>In terms of knowledge the graduate knows and understands:</p> <p>1) the development, structure and functions of the</p>

		<p>human body in normal and pathological conditions;</p> <p>(2) symptoms and course of diseases;</p> <p>(3) diagnostic and therapeutic procedures appropriate to the condition in question;</p> <p>(4) the ethical, social and legal conditions of the medical profession and the principles of health promotion, and bases its knowledge on scientific evidence;</p> <p>(5) research methods.</p>
	Skills	<p>Delivery room management, supervision during early postnatal adaptation, assessment of transitional conditions of the neonatal period, screening tests, vaccination eligibility. Planning further Verified by on the child's health and development.</p> <p>In terms of skills the graduate can:</p> <p>1) identify medical problems and identify priorities for medical management;</p> <p>(2) identify life-threatening conditions requiring immediate medical intervention;</p> <p>3) plan the diagnostic procedure and interpret its results;</p> <p>(4) implement appropriate and safe therapeutic interventions and anticipate their consequences;</p> <p>(5) plan his/her own educational classes and constantly update his/her knowledge;</p> <p>6) inspire learning in others;</p> <p>7) communicate with the patient and his/her family in an atmosphere of trust, taking into account the needs of the patient and communicate unfavourable information;</p> <p>8) communicate with colleagues in the team and share knowledge;</p> <p>(9) critically evaluate research findings and justify the position accordingly.</p>
	Social	<p>Ability to establish contact with mother/parents during labour and after birth, ability to communicate the</p>

	competences	<p>outcome of the physical examination of the newborn, ability to communicate the ill health of the baby.</p> <p>In terms of social competence the graduate is ready to:</p> <ol style="list-style-type: none"> <li>1) establish and maintain deep and respectful contact with patients and show understanding for world-view and cultural differences</li> <li>2. be guided by the best interests of the patient;</li> <li>(3) observe medical confidentiality and patient rights;</li> <li>(4) take action towards the patient on the basis of ethical principles, with awareness of the social determinants and limitations of the disease;</li> <li>5) to perceive and recognise their own limitations and make a self-assessment of their deficits and learning needs;</li> <li>6) to promote health-seeking behaviour;</li> <li>7) to use objective sources of information;</li> <li>8) to draw conclusions from their own measurements or observations;</li> <li>9) to implement the principles of professional comradeship and cooperation in a team of specialists, including with representatives of other medical professions, also in a multicultural and multinational environment;</li> <li>10) to formulate opinions on various aspects of professional classes;</li> <li>11. to accept responsibility for decisions made in the course of their professional classes, including for their own safety and that of others.</li> </ol>
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LEARNING OUTCOMES			
Number of learning outcome	A student who has completed the COURSE knows/can:	SYMBOL (reference to) learning outcomes for the field of	Means of verifying the learning outcomes*

		<b>study</b>	
W01	He/she is able to discuss prenatal risk factors for fetal and neonatal development	EW1	U
W02	He/she is able to discuss the principles of nutrition for healthy and sick newborns, including natural feeding, vaccination protective measures and to keep a child's health record;	EW2	U
W03	He/she is able to discuss the causes and pathomechanism of neonatal period pathology: prematurity, newborn of diabetic mother, intrauterine hypotrophy, respiratory failure, infections	EW3	U
W04	He/she is able to discuss the problems of the newborn of a mother addicted to psychoactive substances and an abused child	EW4	U
W05	He/she is able to discuss basic fetal diagnosis and therapy	EW5	U
W06	He/she is able to discuss the most common neonatal life-threatening conditions and management principles in these states	EW6	U
U01	He/she is able to conduct a medical interview with the family of the newborn	EU2	S
U02	He/she is able to perform a physical examination of the newborn baby	EU4	S
U03	He/she is able to assess the general condition, state of consciousness of the newborn	EU7	S
U04	He/she is able to assess the newborn on the Apgar scale and its maturity and examine reflexes neonatal	EU8	S

U05	He/she is able to compare anthropometric and blood pressure measurements with data on grids centiles	EU9	S
U06	He/she is able to identify immediate life-threatening conditions	EU14	U
U07	He/she is able to plans diagnostic, therapeutic and preventive management;	EU16	U
U08	He/she is able to interpret laboratory test results and identify causes of abnormalities	EU24	U
U09	He/she is able to plans the management of exposure to a blood-borne infection;	EU26	U
U10	He/she is able to qualifies the patient for vaccination;	EU27	U
K01	He/she is able to discuss to be guided by the best interests of the patient		S
K02	He/she is able to discuss respect for medical confidentiality and patient rights;		S

**Table of learning outcomes in relation to the form of classes**

Number of learning outcome	Learning outcomes	Form of the classes						
		Lecture	Seminar	Practical classes	Clinical practical classes	Simulations	E-learning	Other forms
W01		x					X	
W02		x			x		X	
W03		x			x		X	
W04		x			x		X	
W05		x			x		X	
W06		x			x		X	
U01					x			
U02					x			
U03					x			

U04						x				
U05						x				
U06						x				
U07						x				
U08						x				
U09						x				
U10						x				
K01						x				
K02						x				

**TABLE OF CURRICULUM CONTENT**

Curriculum content	Curriculum content	Number of hours	Reference to the learning outcomes for the COURSE
<b>Winter and summer semesters</b>			
	Clinical teaching block: 3 days of 4 h = 12 h	15	
	Lectures: 3 h		
	1. Transitional states of postnatal adaptation, perinatal injuries and conditions requiring immediate surgical intervention Neonatal jaundice	1 h	
	2. Newborn of a diabetic mother, carbohydrate and metabolic disorders in the newborn. Infections.	1 h	
	3. Respiratory and circulatory disorders of the newborn. Neurological abnormalities.	1 h	
	Practical classes: 12 h		
	1. Courseive and physical examination of the newborn baby	4 h	
	2. Assessment of the clinical condition of the preterm infant	1 h	
	3. Clinical problems resulting from prematurity	2 h	
	4. Assessment of the newborn's condition after birth, monitoring the period of postnatal adaptation	2 h	
	5. Screening, qualification for vaccination	2 h	
	6. Resolving lactation problems	1 h	
<b>Recommended literature:</b>			
Reference literature			

1. Neonatologia- wybrane zagadnienia; Agnieszka Kordek, Wyd. PUM 2015	
2. Neonatologia, red. J. Szczapa, PZWL 2000	
Complementary literature	
1. Stany Nagłe – Neonatologia, red. Agnieszka Kordek, Medical Tribune 2019	
2. Zakażenia w ciąży i okołoporodowe-postępowanie z matką i noworodkiem. Red A. Kordek, A. Torbe, Medical Tribune 2017	
3. Pediatria. Lissauer (T. Lissauer, W. Carroll) wyd. 5, red. A. Milanowski; 2019; Elsevier Urban&Partner	
4. Pediatria – Podręcznik do Państwowego Egzaminu Lekarskiego i egzaminu specjalizacyjnego. Anna Dobrzańska, Józef Ryzko, Elsevier Urban&Partner, Wrocław 2014, wyd.2	
<b>Student workload</b>	
Form of student workload (course attendance, student's involvement, report preparation, etc.)	Student workload [h]
	In the teacher's assessment (opinion)
Contact hours with the teacher	12 h
Preparation for practical classes/seminar	2 h
Reading of designated literature	4 h
Writing a lab/practical classes report/preparing a project/reference paper, etc.	
Preparation for the test/colloquium	4 h
Preparation for the examination	
Other .....	
Total student workload	28 h
ECTS credits	1
<b>Notes</b>	