

Plan of lectures and seminars from „Embryology“ for the second-year students of General medicine, school year 2023/2024, summer semester

1st session 08/02/2024	Introduction to embryology. Overview of spermiogenesis and oogenesis. Fertilization, cleavage of the zygote, development of the blastocyst (1st week of development), Implantation of the blastocyst. Decidual reaction. Clinical embryology and assisted reproduction techniques.
2nd session 15/02/2024	Formation of bilaminar and trilaminar germ disc. Formation of amniotic cavity, yolk sac and chorionic cavity (2nd week of development). Formation of the twins and their fetal membranes.
3rd session 22/02/2024	Formation of the embryonal body. Somites. Formation of the notochord and neural tube (3rd and 4th week of development). Derivatives of the germ layers.
4th session 29/02/2024	Development and congenital anomalies of the central nervous system. Neural crest cells and their derivatives.
5th session 07/03/2024	Development of the cardiovascular system and its anomalies. Fetal blood circulation and circulatory changes after the birth.
6th session 14/03/2024	Pharyngeal arches. Development and congenital anomalies of the face, nasal and oral cavities.
7th session 21/03/2024	Primitive gut and its derivatives. Development and congenital anomalies of the gastrointestinal system. Development and congenital anomalies of the respiratory system.
8th session 28/03/2024	<i>Vacations (before Easter Good Friday)</i>
9th session 04/04/2024	Development and functional morphology of placenta. Placental barrier. Teratology and teratogens. Possibilities of prenatal diagnosis.
10th session 11/04/2024	Development and congenital anomalies of the urinary system. Development and congenital anomalies of the genital system.
11th session 18/04/2024	Development and congenital anomalies of the sensory organs.
12th session 25/04/2024	Development and congenital anomalies of the skin and skin derivatives. Development of the skull, spinal cord and of the limbs.
13th session 02/05/2024	<i>Clinically oriented embryology.</i> <i>Guest: The issue of congenital developmental defects, their diagnosis and treatment.</i>
14th session 09/05/2024	Consultations. Credit test (topics of lectures 1 - 12)

Lecturer: Renáta Mikušová, MD, PhD.

Bratislava, 2nd of February 2024

Michal Miko, MD, PhD.

Institute of HaE MF SZU, head