Discussed and confirmed on the methodical council of the department August 30, 2019.

HISTOLOGY INDEPENDENT WORK

for students of Faculty of General Medicine, 2nd year, Autumn semester. Academic year 2019-2020.

№	Topic	Amount
		of hours
1.	Embryonic development of nervous system. Derivatives of neural tube.	4
2.	Concepts of basic structural components of blood-brain barrier.	4
3.	Histophysiology of the eye. Thin ultrastructure of rods and cones.	4
4.	Histophysiology of the ear.	4
5.	Histophysiology of the microcircultory bed.	4
6.	Embryonic hematopoiesis.	4
7.	Structural peculiarities and functional meaning of spleen.	4
8.	Age-related and accidental involution of thymus	4
9.	Hypothalamic-pituitary relationships in the regulation of endocrine functions.	4
10.	Cytophysiological aspects of synthesis and secretion of catecholamines and	4
	steroid hormones.	
11.	Embryonic development of digestive system.	4
12.	Relationship of structural and functional peculiarities of oral cavity.	4
13.	Perimembranous and luminal digestion. Peculiarities of absorption of different types of nutrients.	4
14.	Cytophysiological aspects of synergic and antagonistic functions of islet cells	4
	of different types.	
15.	Relationship of morphology and functional features of the liver.	4
16.	Air-blood barrier. Surfactant and its functions.	4
17.	Endocrine function of kidneys. Morphological aspects of renin-angiotensin	4
	system functioning.	
18.	Spermatogenesis-hormonal regulation.	4
19.	Relationship of ovarian and menstrual cycles. Morphofunctional aspects	4
	Morphofunctional aspects of the use of hormonal contraceptives.	
20.	Basics of histocompatibility as the key aspect of in vitro fertilization method.	4

In total 80 hours.

Chief of the Department of Histology and Embryology, Professor

Alexander Lutsyk, MD, PhD

Deputy for Academic work, Assoc. Prof.

Olga Nakonechna, PhD