# Ministry of Education and Science of the Kyrgyz Republic



Osh State University

Federal State-Funded Educational Institution of Higher Education
"Voronezh State Medical University named after N.N. Burdenko"
of the Ministry of Health of the Russian Federation



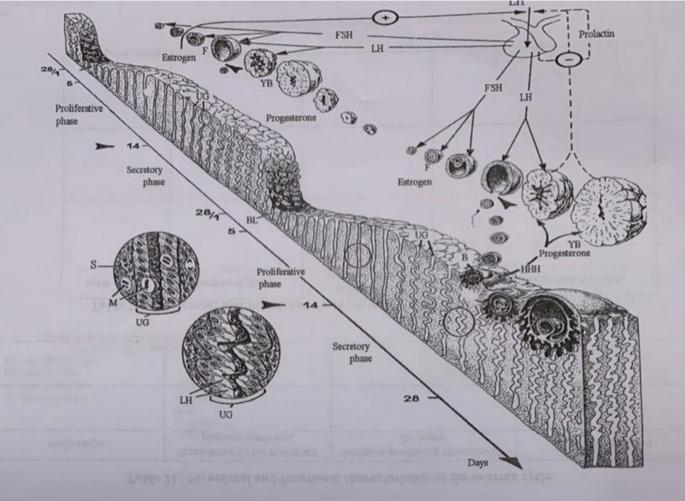
Department of Anatomy, Histology and Normal Physiology
Department of Histology

## TRAINING MANUALS - ALBUM

in Human Histology 2
for practical classes, independent self work and self-preparation for the specialty "560001-General Medicine"

### 9. Students individual work (SIW)

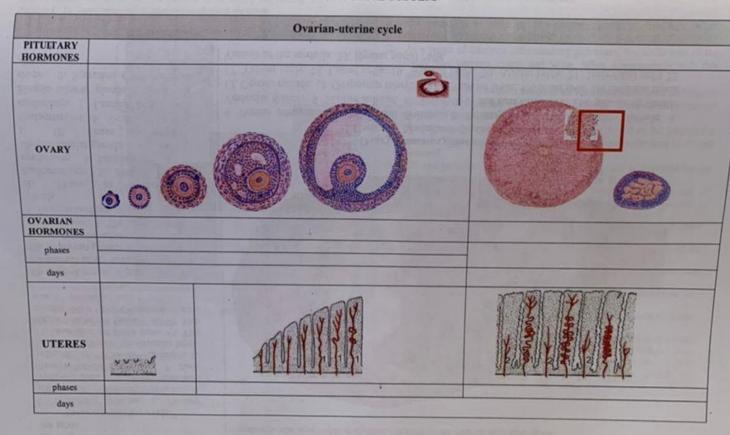
№ and name of the topic	comp	Task for self-work	Hou	Form o f	Po int	Lit -re	w e ek
P	ies		rs	control	s	1000000	0377
1	2	3	4	5	6	7	8
		Module №1		1 2 2		-	
Introduction The subject and objectives of the course of histology with cytology. The history of the development of histology as a science. Methods of histological examination.	GC-1 SIC- 1 PC-5 PC-1 5 PC-3	The history     of the discovery     of the     microscope.     Methods of     histological     techniques	1	Abstra c t , schema t i c s . picture	5	1, 2, 3, 45,6	1-2
Cytology. Cell membrane. Cytoplasm and its components		<ol> <li>Cytology.         Cell theory.</li> <li>D r a w         Membranous and nonmembranous organelles.</li> <li>D r a w         Organelles of s p e c i a l assignment and inclusions.</li> <li>D r a w         glycogen in hepatic cells</li> </ol>	1	Abstra c t , schema t i c s . picture	5	1, 2, 3, 45,6	2-3
Cell nucleus Chromosomes. Cel cycle. Cell division (mitosis, meiosis, etc.)	1 n	Draw and fill in the nucleus of the cell.  Draw and describe mitotic cycle phases.	2	Abstract, schemat i c s . Workin g with microsc ope	5	1,2 ,3, 45, 6,	
Introduction The subject and objectives of the course of human embryology. Fundamentals of General Embryology. Progenesis. Development and structure of germ	GC-1 SIC- 1 PC-5 PC-1 5 PC-3	1. Draw schematic drawings of human e m b r y o n i c development 2. Fill the table of germinal layers and their derivatives	2	Abstra c t , schema t i c s . Workin g with micros cope	5	1, 2, 3, 4, 5, 6	4-5



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Date:

#### FEMALE REPRODUCTIVE SYSTEM



#### Ovary

# Identify the cortical structures in the table

## "Ovarian-uterine cycle."

1. Primordial follicles. 2. Primary follicle. 3. Secondary follicle. 4. Vesicular follicle. 5. Mature follicle. 6. Ovocyte of the first order. 7. Zona pellucid. 8. Corona radiate. 9. Ovipositor tubercle. 10. Granular layer. 11. Inner teca. 12. Outer theca. 13. The corpus luteum. 14. Luteal cells. 15. The whitish body. 16. Connective tissue scar. 17. Interstitial cells.

#### Uterus

# Ovarian-Uterine Cycle, label the fragments of the uterine mucosa in the different phases of the cycle.

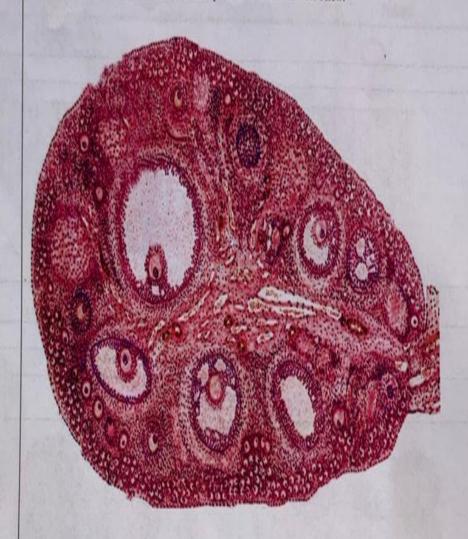
I. Desquamation phase.Endometrium: 1. The proper lamina.2. Bottom sections of simple tubular glands.

II. Phase of proliferation. Endometrium: 3. Simple prisatic epithelium. 4. Lamina propria 5. Simple tubular glands.

I. III. Phase of secretion. Endometrium: 6. Simple prismatic epithelium. 7. Lamina propria. 8. Simple tubular glands of sawtooth shape. 9. Secretion of the uterine glands.

## Directions for work with micropreparation:

Ovary. Under low magnification, examine and locate the ovary as a white sheath covered with superficial simple cuboidal layer cubic epithelium. Identify all the ovarian structures below.



#### Ovary (hematoxylin-eosin staining)

1. Cortex. 2. Medulla. 3. Surface epithelium.

Tunica albugenia.
 Primordial follicles.
 Primary follicle.
 Secondary follicle.
 Wesicular follicle.
 Mature follicle.
 Ovocyte of the first order.
 The glistening sheath.
 Corona radiate.
 Ovipositor tubercle.
 Granular layer.
 Inner teca.
 External theca.
 Yellow body.
 Luteal cells.
 Whitish body.
 Atretic body.
 Interstitial cells.
 Vessels of the medulla.
 Hyalus portal cells.