#### ZAPORIZHZHIA STATE MEDICAL UNIVERSITY

**Department of Foreign Languages** 

# **ENGLISH FOR SPECIFIC PURPOSES**

#### WORKBOOK

for 3<sup>rd</sup>-year Foreign Students Specialty 222 «Medicine»



Zaporizhzhia 2020 A workbook is approved and recommended for using in learning process by the Central Methodical Commission of Zaporizhzhia State Medical University (record No. 3 from 27.02. 2020).

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**Іноземна мова за професійним спрямуванням**: робочий зошит для студентів-іноземних громадян III курсу спец. 222 "Медицина" / О. Гордієнко, А. Неруш, Л. Сазанович, О.Мирошниченко, О. Соляненко. – Запоріжжя : ЗДМУ, 2020. — 83 с. — (*англ.*)

This workbook for self-study is recommended for 3<sup>rd</sup>-year foreign students of medical faculties. It contains tasks for individual work according to the discipline program "Foreign Language for Specific Purpose". The aim of the workbook is to provide students with assignments and exercises on the themes according to the syllabus.

# Запорізький державний медичний університет Кафедра іноземних мов

## РОБОЧИЙ ЗОШИТ

# для студентів-іноземних громадян III курсу спеціальності 222 "Медицина"

ПІБ	 	
курс		
семестр	 	 -
група		

Запоріжжя

# Запорожский государственный медицинский университет Кафедра иностранных языков

# РАБОЧАЯ ТЕТРАДЬ для студентов-иностранных граждан специальности 222 "Медицина"

ФИО	 	
wwne		
курс		 -
семестр	 	 
гимппа		

Запорожье

## **CONTENTS**

1.	INTRODUCTION	6
2.	STUDENT'S INDIVIDUAL SCHEDULE	7
	2.1.Индивидуальный график студента	7
	2.2.Індивідуальний графік студента	8
3.	Module 1. HUMAN ANATOMY	9
4.	Module 2. THE CENTRAL NERVOUS SYSTEM	.17
5.	Module 3. THE RESPIRATORY SYSTEM	.32
6.	Module 4. CARDIOVASCULAR SYSTEM	.37
7.	Module 5. THE GASTROINTESTINAL SYSTEM	.51
8.	Module 6. REPRODUCTIVE SYSTEM	.59
9.	Module 7. ENDOCRINE SYSTEM	.66
10	REFERENCES	81

#### INTRODUCTION

Understanding of terminology implies the knowledge of the regularities which shape and organize medical vocabulary. Without a clear notion of these regularities one may not be able to understand language successfully or structure it so as to make themselves understood.

"English in Medicine: Work Book" is intended for the 3-rd year students of medical universities who already have previous background in general English and have mastered the basics of medical English. It contains exercises as well as a wealth of other features and will provide an advanced look at medical terminology, reading practice. Students will achieve an accurate understanding of specific lexical issues that will both enhance their lan-guage skills and provide a solid grounding for further language study.

The contents of the Work Book fully corresponds to the aims and goals of the Working Program of discipline "Foreign Language for special purposes" ("Іноземна мова за професійним спрямуванням") focused on the exam training for the state lisnced exam "Krok I".

The explanations and exercises come from an authentic e-sources fully presented in the online course "Refresher Course. Medicine (advanced level)". The free materials have been selected and compiled according to the Working Program tasks by the editor of the Work Book.

The range of discussed topics encompasses Human Anatomy, The Central Nervous System, The Respiratory System, Cardiovascular System, The Gastrointestinal System, Endocrine System. The extensive base of tests is available for self-study training.

The materials of "English in Medicine: Work Book" can be both used in class and as additional practice.

## Индивидуальный график

по дисциплине

# "Иностранный язык профессиональной сферы применения" ZSMU: FOR\_M2\_CO1

Англійська мова за професійним спрямуванням (просунутий рівень)

студента	- <u></u> -
<u>3</u> курса	группы ІІ международного факультета

	Тема	Срок выполнения	Оцінка	Дата /ФИО
		задания		преподавателя /
				подпись
1	Модуль 1-2			
2.	Модуль 3-4			
3.	Модуль 5-7			

## Індивідуальний графік

## з дисципліни

# "Іноземна мова за професійним спрямуванням"

ZSMU: FOR\_M2\_CO1

Англійська мова за професійним спрямуванням (просунутий рівень)

	студента
	<u>3</u> курсу групи <u>II міжнародного факультету</u>
•	

	Тема	Термін виконання	Оцінка	Дата / П.І.Б. викладача /
				Підпис
1	Модуль 1-2			
2.	Модуль 3-4			
3.	Модуль 5-7			

# MODULE 1 HUMAN ANATOMY

# Revise Human Body Vocabulary Word List. Translate in written.

A	E cont.	L	S
abdomen	endocrine system	larynx	sacrum
Adam's apple	esophagus	leg	scalp
adenoids	eye	ligament	scapula
adrenal gland	eyebrow	lip	senses
anatomy	eyelashes	liver	shin
ankle	eyelid	lobe	shoulder
anus	F	lumbar vertebrae	shoulder blade
appendix	face	lungs	skeleton
arch	fallopian tubes	lymph node	skin
arm	feet	M	skull
artery	femur	mandible	sole
В	fibula	metacarpal	spinal column
back	filling	metatarsal	spinal cord
ball of the foot	finger	molar	spine
belly	fingernail	mouth	spleen
belly button	follicle	muscle	sternum
big toe	foot	N	stomach
bladder	forehead	nail	T
blood	G	navel	tarsal
blood vessels	gallbladder	neck	teeth
body	glands	nerves	tendon
bone	groin	nipple	testes
brain	gums	nose	thigh

breast	H	nostril	thorax
buttocks	hair	0	throat
C	hand	organs	thumb
calf	head	ovary	thyroid
capillary	heart	P	tibia
carpal	heel	palm	tissue
cartilage	hip	pancreas	toe
cell	humerus	patella	toenail
cervical vertebrae	I	pelvis	tongue
cheek	immune system	phalanges	tonsils
chest	instep	pharynx	tooth
chin	index finger	pinky	torso
circulatory system	intestines	pituitary	trachea
clavicle	iris	pore	U
coccyx	J	pupil	ulna
collar bone	jaw	R	ureter
D	K	radius	urethra
diaphragm	kidney	rectum	urinary system
digestive system	knee	red blood cells	uterus
E		respiratory system	uvula
ear		ribs	V
ear lobe			vein
elbow			vertebra
			$\mathbf{W}$
			waist
			white blood cells
			wrist

# ANSWER THE FOLLOWING QUESTIONS:

1. This word starts with an "A." It is the part of the body between the leg and the foot.
What is it?
2. This word starts with an "A." You have two of these. Each one bends in the middle
and is above your waist. What is it?
3. This word starts with a "B." These hard things are inside your body and provide
support for your body. What are they called?
<b>4.</b> This word starts with a "B." This part of your body controls the rest of your body; i
also thinks. What is it?
5. This word starts with an "E." You have two of these on the sides of your head; they
sense sounds. What are they?
<b>6.</b> This word starts with an "E." It is the part of your arm that bends. What is it?
7. This word starts with an "E." You have two of these on your face and you use them
to see. What is it?
<b>8.</b> This word starts with an "F." It is the front of your head. What is it called?
9. This word starts with an "F." You have two of these. You stand on them. What are they?
<b>10.</b> This word starts with an "F." You have ten of these on your hands, and they are
very sensitive to touch. What are they?
11. This word starts with an "H." We have these strands growing over most of our
body (so do other mammals). A lot of it grows on the top of our head. What is it
called?
<b>12.</b> This word starts with an "H." We have two of them,each one at the end of an arm.
What are they?
13. This word starts with an "H." This organ pumps blood through the body. What is
it called?

<b>14.</b> This word starts with an "H." It is the underside of the foot directly beneath the
leg. What is it called?
15. This word starts with an "I." It is the part of the eye that is usually colored brown,
blue, or green. What is it called?
<b>16.</b> This word starts with a "K." It is the part of the leg that bends. What is it?
17. This word starts with an "N." It is the part of the body between the head and the
body. What is it called?
18. This word starts with an "N." It is the part of the body that senses smell. What is
it?
19. This word starts with an "S." It is the part of the body that supports us. It is made
up of over 200 bones. What is it called?
20. This word starts with an "S." It is the name of the major bones in the head. What
is it called?
21. This word starts with a "T." We have ten of these. They are at the end of our feet
and help us balance as we walk. What are they called?
22. This word starts with a "T." It is the name of the organ that senses taste. It also
helps us eat and talk. What is it called?
23. This word starts with a "T." These things are used to bite and crush our food.
What is one of these called?
<b>24.</b> This word starts with a "W." It is the part of the body between the hips and the
chest. What is it called?
25. This word starts with an "X." We use this to take pictures of our bones. What is it
called?

Read the text "The Human Body: Anatomy, Facts & Functions" and fill in the gaps with the appropriate name of a body system:

Digestive system, immune system, muscular\_system, lymphatic\_system, reproductive\_system, skeletal\_system, endocrine\_system, respiratory\_system, urinary\_system, nervous\_system, integumentary\_system, circulatory\_system.

## THE HUMAN BODY: ANATOMY, FACTS & FUNCTIONS

The human body is an amazing machine. Find out how it works from head to toe.

The basic parts of the human body are the head, neck, torso, arms and legs.

## **Body systems**

Our bodies consist of a number of biological systems that carry out specific functions
necessary for everyday living.
The job of the is to move blood, nutrients, oxygen, carbor
dioxide, and hormones, around the body. It consists of the heart, blood, blood
vessels, arteries and veins.
The consists of a series of connected organs that together, allow
the body to break down and absorb food, and remove waste. It includes the mouth
esophagus, stomach, small intestine, large intestine, rectum, and anus. The liver and
pancreas also play a role in the digestive system because they produce digestive
juices.
The consists of eight major glands that secrete hormones into
the blood. These hormones, in turn, travel to different tissues and regulate various
bodily functions, such as metabolism, growth and sexual function.
The is the body's defense against bacteria, viruses and other
pathogens that may be harmful. It includes lymph nodes, the spleen, bone marrow
lymphocytes (including B-cells and T-cells), the thymus and leukocytes, which are
white blood cells.
The includes lymph nodes, lymph ducts and lymph vessels, and
also plays a role in the body's defenses. Its main job is to make is to make and move
lymph, a clear fluid that contains white blood cells, which help the body fight
infection. The lymphatic system also removes excess lymph fluid from bodily tissues
and returns it to the blood.
The controls both voluntary action (like conscious movement)
and involuntary actions (like breathing), and sends signals to different parts of the
body. The central nervous system includes the brain and spinal cord. The peripheral

nervous system consis	is of nerves that connect every other part of the body to the
central nervous system.	
The body's	consists of about 650 muscles that aid in movement,
blood flow and other	bodily functions. There are three types of muscle: skeletal
muscle which is conn	ected to bone and helps with voluntary movement, smooth
muscle which is found	inside organs and helps to move substances through organs,
and cardiac muscle whi	ich is found in the heart and helps pump blood.
The	allows humans to reproduce. The male reproductive system
includes the penis and	the testes, which produce sperm. The female reproductive
system consists of the	vagina, the uterus and the ovaries, which produce eggs. During
conception, a sperm co	ell fuses with an egg cell, which creates a fertilized egg that
implants and grows in t	he uterus.
Our bodies are suppor	ted by the which consists of 206 bones
that are connected by to	endons, ligaments and cartilage. The skeleton not only helps us
move, but it's also in	volved in the production of blood cells and the storage of
calcium. The teeth are	e also part of the skeletal system, but they aren't considered
bones.	
The	allows us to take in vital oxygen and expel carbon dioxide
in a process we call bre	eathing. It consists mainly of the trachea, the diaphragm and the
lungs.	
The	helps eliminate a waste product called urea from the body,
which is produced who	en certain foods are broken down. The whole system includes
two kidneys, two urete	ers, the bladder, two sphincter muscles and the urethra. Urine
produced by the kidne	ys travels down the ureters to the bladder, and exits the body
through the urethra.	
The skin, or	is the body's largest organ. It protects us from the
outside world, and is o	our first defense against bacteria, viruses and other pathogens.
Our skin also helps	regulate body temperature and eliminate waste through
perspiration. In addition	n to skin, the integumentary system includes hair and nails.

### Read the text "VITAL ORGANS".

## Find up the corresponding notions in the sentence.

#### VITAL ORGANS

Humans have five vital organs that are essential for survival. These are the brain, heart, kidneys, liver and lungs.

Theare responsible for removing oxygen from the air we breathe and transferring it to our blood where it can be sent to our cells. The lungs also remove carbon dioxide, which we exhale.	human_heart
The is a responsible for pumping blood throughout our body.	human_brain
Thehas many functions, including detoxifying of harmful chemicals, breakdown of drugs, filtering of blood, secretion of bile and production of blood-clotting proteins.	kidneys
The is the body's control center, receiving and sending signals to other organs through the nervous system and through secreted hormones. It is responsible for our thoughts, feelings, memory storage and general perception of the world.	lungs

The job of the	_ is to remove	liver
waste and extra fluid from the blood.	The kidneys	
take urea out of the blood and combine	e it with water	
and other substances to make urine.		

You are going to read "Fun facts" about human anatomy after having inserted the necessary word combination with numeral:

200, 50 percent, 100 trillion, 20,000, quarter and a half, 10 times, 100 billion.

### **FUN FACTS**

•	The human body contains nearly	cells.
•	There are at leastcells.	as many bacteria in the human body as
•	The average adult takes over	breaths a day.
•	Each day, the kidneys process about _ of blood to filter out about 2 quarts of w	
•	Adults excrete about a	(1.42 liters) of urine each day.
•	The human brain contains about	nerve cells
•	Water makes up more thanweight.	of the average adult's body

# Module 2 THE CENTRAL NERVOUS SYSTEM

# Vocabulary

## Revise Human Body Vocabulary Word List. Translate in written.

A	Ι		
abnormal electrical discharges from brain	impact mental functions		
cells	interneuron		
acromegaly	L		
affect movement	Lou Gehrig's disease		
Alzheimer's disease	M		
astrocytes	magnetic resonance imaging		
auditory and visual responses	maintain balance and equilibrium		
autism	maintain movement and coordination		
autistic people	mater arachnoid		
autonomic nervous system	mater dura		
axon	mater pia		
В	measure cell or tissue metabolism		
brain	medulla oblongata		
brainstem	meninges		
bundle of nerve fibers	meningitis		
C	microgliacytes		
carotid artery disease	midbrain		
catalepsy	migraine		
central nervous system	monitor and coordinate internal orga		
cerebrospinal fluid	function		
cerebrum	motor function		
cerebellum	motor neuron		

chronic fatigue syndrom multiple sclerosis cluster headache N computed tomography nerve-related pain computed tomography scan neural ganglia conditions involving the nervous system neurological examination 0 conduct and transmit signals oligodendrocytes control autonomic function convey signals cranial nervous system Parkinson's disease D pituitary gland dendrite phenomenon of memory drain a small amount of cerebral spinal phenylketonuria fluid positron emission tomography  $\mathbf{E}$ presynaptic membrane electroencephalogram process and interpret sensory information encephalon processing center encephalitis progressive nerve disease ependimal cells R receive and send information epilepsy experience functional difficulties record the brain's continuous electrical F activity S forebrain frontal lobe seizure G sensory neuron glial cells spinal column spinal cord gyrus H stroke hemisphere support, feed and insulate the neurons hindbrain  $\mathbf{T}$ 

hippocampus	Tay-Sachs disease	
Huntington's disease	temporal lobe	
hypothalamus	tension-type headache	
	test cerebral spinal fluid for infection or	
	other abnormalities	
	thalamus	
	Tourette's syndrome	
	tremor	
	$\mathbf{V}$	
	vertebral cortex	
	$\mathbf{W}$	
	Wilson disease	

## **READING**

1. Without looking back at the text "Central Nervous System" (online course),
mark the following statements T (true) or F (false):
a. The nervous system is responsible for sending, receiving, and interpreting
information from all parts of the body.[]
b. The central nervous system receives information from and sends information to
the peripheral nervous system.[]
<b>c.</b> Both the brain and spinal cord are protected by three layers of connective tissue
called the meninges.[]
d. The brain consists of two main components: the forebrain, and the
brainstem.[]
e. The forebrain is responsible for a variety of functions including receiving and
processing sensory information, thinking, perceiving, producing and understanding
language, and controlling motor function.[]
f. The midbrain is the portion of the brainstem that connects the hindbrain and the

forehead. [\_\_\_\_]

g. The hindbrain also contains the medulla oblongata which is responsible for			
inhibiting such autonomic functions as breathing, heart rate, and digestion.[]			
h. Neurons are not the basic unit of the nervous system, but all cells of the nervous			
system are comprised of neurons.[]			
i. Neurons are classified as either motor, sensory, or interneurons.			
<b>j</b> . Motor neurons carry information from the central nervous system to organs, glands,			
and muscles.[]			
GRAMMAR			
1. Study online course, read the following piece of information and complete the			
missing articles: a, the, zero article.			
missing at ticles. a, me, zero article.			
In 1848, accidental explosion drove metal bar completely through			
frontal lobes of Phineas P. Gage. Not only did he survive accident, he never			
even lost consciousness or any of the clearly-defined functions of brain.			
However, he underwent a marked change in personality. Formerly described as			
reasonable, sober, conscientious person, he became "thoughtless, irresponsible, fitful,			
obstinate, and profane". In short, his personality had changed, but his vision,			
hearing, other sensations, speech, and body coordination were unimpaired. (Similar			
personality changes have since been often observed in people with injuries to their			
prefrontal cortex.)			
2. Study online course, learn more about the CNS. Complete the sentences with			
the proper forms of an adjective: positive, comparative, superlative form.			
a) The size of your brains does not reflect your intelligence - after all Einstein's brain			
was no (large) then the average person.			
b) It will take (little) than one second for information			
to travel along your nerves.			

c) The forebrain also contains the	( large) part of the
brain, the cerebrum.	
d) Dendrites are usually	(numerous, short and
branched) than axons.	
e) Axons are	(long) nerve processes that may branch
out to convey signals to various areas.	
f) The messages between your brain cells	and the rest of the body are carried by
electricity - but only	(tiny) amounts.

#### Read the text about the CNS diseases and conditions. Complete the table.

There are many central nervous system diseases and conditions, including infections of the central nervous system such as encephalitis and poliomyelitis, earlyonset neurological disorders including **ADHD** and autism, late-onset neurodegenerative diseases such as Alzheimer's disease, Parkinson's disease, and essential tremor, autoimmune and inflammatory diseases such as multiple sclerosis and acute disseminated encephalomyelitis, genetic disorders such as Krabbe's disease Huntington's disease, as well as amyotrophic lateral sclerosis adrenoleukodystrophy. Lastly, cancers of the central nervous system can cause severe illness and, when malignant, can have very high mortality rates. "Of all the diseases of the nervous system, the most common difficulty that people have is pain, and much of that is nerve-related," according to Dr. Shai Gozani, founder and CEO of NeuroMetrix, a medical device company. "There are 100 million people who live with chronic pain." According to the Mayo Clinic, patients with nerve disorders experience functional difficulties, which result in conditions such as: Epilepsy, in which abnormal electrical discharges from brain cells cause seizures Parkinson's disease, which is a progressive nerve disease that affects movement Multiple sclerosis (MS), in which the protective lining of the nerves is attacked by the body's immune system Amyotrophic lateral sclerosis (ALS), also known as Lou Gehrig's disease, is a motor neuron disease which weakens the muscles and progressively hampers physical

function Huntington's disease, which is an inherited condition that cause the nerve cells in the brain to degenerate Alzheimer's disease, which covers a wide range of disorders that impacts mental functions, particularly memory.

Disease	Description	Diagnosing

#### Feedback: take a test to check yourself

- 1. Our body is a complex organism that works with the cooperation of different systems, including circulatory system, digestive system, endocrine system, immune system, lymphatic system, muscular system, reproductive system, respiratory system, urinary system, skeletal system and nervous system, among which there include central nervous system that ....
- a) helps people to do their problems
- b) helps people to find the solution
- c) helps towards the attainment of an end
- d) helps people over in their trouble
- e) helps all the parts of the body to communicate with each other
- **2.** Your brain is like the ... of your body. It has different components that play different roles.
- a) control center
- b) disarmament control
- c) test control
- d) control exercise
- e) disease control
- **3.** The forebrain receives and processes sensory information; it also handles other functions, including ... and controlling motor function.
- a) perceiving, thinking and understanding language
- b) introducing the language of science
- c) appreciating fine language
- d) mastering finger language
- e) avoiding strong language

4. It has different structures too, including the hypothalamus and the thalamus, both
of which different functions such as sensory information relay, motor control
and autonomic functions control.
a) management b) manager c) manage d) managing e) managed
5. Midbrain is basically the portion that forms a between the forebrain and the hindbrain; the region manages your visual and auditory responses, as well as motor function.  a) connect b) connection c) connected d) connective e) connectively
6. Extending from the spinal cord, the hindbrain structures such as the
cerebellum and pons.
a) maintains b) sustains c) pertains d) contains e) obtains
7. Connected to the brain, spinal cord is a cylindrical shaped group of nerve fibers and your spinal column that extends from your neck and goes all the way down to your lower back.  a) runs about b) runs away c) runs back d) runs with e) runs down
8. Your nervous system has cells comprised of neurons that contain nerve processes, and each of them has axons and dendrites that can signals.  a) read and translate b) manage and control c) hear and see d) transmit and conduct e) catch and response
<ul> <li>9. Axons are long nerve processes that carry signals away from the cell body, whereas dendrites are shorter than axons and carry signals the cell body.</li> <li>a) toward b) across c) among d) behind e) between</li> </ul>
<b>10.</b> An adult has 75 km of nerves in their body, enough to stretch over 185

times around an Olympic running track.

a) any	b) some	c) these	d) those	e) its
<b>11.</b> The	e average	of your spina	al cord is abou	at 19 inches and it contains about
13,500,00	neurons. The co	ommunication	between the	brain and other parts of the body
is carried	out through the	spinal cord.		
a) long	b) wide	c) deep	d) length	e) depth
			male brain is 1	1375 g, but it is for women
	ns around 1275 g			
a) light	b) lighter c)	the lighter	d) lightest	e) the lightest
4.0 TI				400
	•		•	es fast100 meters per
		_		is around 180 miles per hour.
a) as	as b) both	and	c) either or	d) neither nor
e) not only	y but also			
				e first year after birth. Your brain
	am every year, a			
a) grow in size b) grow in price c) grow in experience d) grow old				
e) grow into a man (or a beautiful woman)				
<b>15.</b> A n	nan's brain has 6	5.5 times mor	e gray matter	as compared to, but a
brain has	10 times more w	hite matter as	s compared to	men.
a) woman	woman's	b) wom	en men	c) women woman's
d) woman	's man	's e) ma	n's womei	1
<b>16.</b>	more than 4	% of your bra	ain cells are us	sed for most of the tasks.
a) no	o) some c) and	ny d) som	ething e) a	nything

17. Neurons	s grow at the	rate of 250	,000 neurons a	minute in a child	d inside the
a) woman	b) work	c) wonde	er d) womb	e) wood	
<b>18.</b> Nerves	can be dam	aged by inj	ury or disease	and result in	and loss of
function in cer	tain parts of	your body.			
a) severe look	b) severe	pain o	c) severe reprin	nand d) severe	e distress
e) severe nervo	ous outbreak				
<b>19.</b> Many c	ases of	. from s	trokes, brain t	umors, mechanic	eal damages (e.g.
bullet wounds	) have provi	ded importa	ant insights into	the functions of	f various parts of
the brain.					
a) brain damag	ge b) bra	n storm	c) brain attac	k d) brain p	ower
e) brain cortex					
<b>20.</b> The area	a of motor c	ortex	a body part	is not proportion	nal to the size of
that part but is	proportiona	l to the nun	nber of motor n	eurons running t	o it.
a) control	b) controllin	g c) con	ntrolled d)	controls e) to	control
<b>21.</b> m	notor neuror	s that activ	vate a structur	e, pre	ecisely it can be
controlled.					
a) the most .	the most	b) the m	nost the mo	ore c) the mo	ore the most
d) the more	. the more	e) the	more the le	ess	
<b>22.</b> Thus the	areas of the	motor corte	ex controlling t	he hands and lip	s are than
those controlli	ng the musc	les of the to	rso and legs.		
a) many large	b) many	larger	c) much larger	d) more large	e) more larger
<b>23.</b> When p	ortions of th	ne occipital	lobe are stimu	ılated , th	ne patient reports
light.					
a) electrically	b) biolo	gically	c) chemically	d) naturally	e) greatly

24. Damage to regions in the occipital lobe results in the person's being perfectly						
able to see objects but of recognizing them.						
a) incalculable b) incapable c) incontestable d) inclinable e) incompatible						
25. The centers of hearing and understanding what is heard in the temporal						
lobes.						
a) locate b) located c) are located d) have been located e) locating						
<b>26.</b> Stroke is the sudden interruption of blood flow a part of the brain that						
kills brain cells within the area.						
a) to b) from c) between d) behind e) in						
27. Strokes typically with the sudden onset of focal neurologic deficits, such as						
weakness, sensory deficit, or difficulties with language.						
a) manifested b) manifests c) are manifesting d) manifest						
e) were manifested						
<b>28.</b> The result of stroke is that body functions by the affected area may						
be impaired or lost.						
a) controlling b) controlled c) are controlled d) are controlling e) control						
29. Penumbra is an area of brain cells the initial site of brain damage from						
stroke.						
a) surrounded b) surrounded c) is surrounding d) is surrounded						
e) surrounding						
<b>30.</b> The brain cells in the penumbra by ischemic injury, but not irreversibly						
damaged.						
a) are threatening b) threatened c) are threatened d) threatening						

e) threaten
<ul> <li>31. Compensation is the ability of an individual with impairments from stroke a task either using the impaired limb with an adapted (different) approach or using the unaffected limb.</li> <li>a) performing b) to perform c) performs d) performed e) is performed</li> </ul>
<ul> <li>32. Continence is ability to control bodily functions, especially urinary bladder and bowel functions.</li> <li>a) the b) an the c) the d) an e)</li> </ul>
<ul> <li>33. Functional limitation is a reduced ability or lack of ability to perform an action or activity in the manner or the range considered to be normal.</li> <li>a) with b) in c) within d) between e) without</li> </ul>
<ul> <li>34. Autism in varying degrees by difficulties in social interaction, verbal and nonverbal communications and repetitive behaviors.</li> <li>a) has characterized b) is characterized c) characterizing d) characterized</li> <li>e) is characterizing</li> </ul>
<ul><li>35. Autism its roots in very early brain development.</li><li>a) is reported to be b) is expected to have c) is thought to be d) appears to have e) seems to be</li></ul>

obvious signs of autism and its symptoms tend to emerge between 2 and

e) the most

d) most

c) most

3 years of age.

b) the

more

a) much

<b>37.</b> Autism Spectrum Disease be associated with intellectual disability,
difficulties in motor coordination and attention and physical health issues such as
sleep and gastrointestinal disturbances.
a) might b) has to c) can d) must e) should
38. Seventy years after Leo Kanner first described "infantile autism", national
awareness still mainly on children with autism spectrum disorder.
a) is focused b) is focusing c) has focused
d) has been focused e) has been focusing
<b>39.</b> The hardest part about autism is what treatments and therapies your
child could benefit from and not having the financial resources to get him the help.
a) know b) knew c) known d) knowing e) to know
<b>40.</b> Phenylketonuria is an inborn error of metabolism impaired metabolism of
the amino acid phenylalanine.
a) to involve b) involve c) involving d) involved e) involves
<b>41.</b> Phenylketonuria by absent or virtually absent phenylalanine hydroxylase
enzyme activity.
a) causes b) caused c) causing d) is caused e) is causing
<b>42.</b> Emotional lability is instability or change of the emotions; in stroke survivors, it
the form of inappropriate laughing or crying for no obvious reason.
a) takes b) took c) taken d) is taken e) is taking
<b>43.</b> CT scanning routinely used to quickly diagnose strokes.
a) has b) is c) does d) had e) did

<b>44.</b> The electroencephalograph electrical activity ("brain waves") that can be					
detected at the surface of the scalp.					
a) measuring b) measured c) measures d) is measured					
e) will be measured					
<b>45.</b> Doctors at a hospital in Brooklyn New York have gone on strike – hospital					
officials say they will find out what the doctor's demands are as soon as they can get a					
to read the picket signs!					
a) pharmacist b) microbiologist c) anatomist d) physiologist					
e) ophthalmologist					
46. Scientists still mental telepathy, and most scientists do not believe					
that it exists.					
a) are studied b) have studied c) have been studied					
d) had been studying e) are studying					
<b>47.</b> An increasing number of experts believe that the of connections between					
the left and right parts of the brain may be the starting point for human genius.					
a) badness b) darkness c) weakness d) richness e) brightness					
48. Babies do it for up to eighteen hours a day; Napoleon and Mrs Thatcher both					
said they only to do it three or four hours a night.					
a) need b) needing c) needed d) were needed e) would need					
49. Rodin's The Thinker may do it sitting down; Sir Winston Churchill did it in the					
bath smoking a cigar; but researchers now believe that lying down if the best way					
a) to eat b) to work c) to enjoy d) to sleep e) to think					
50. The brain is a wonderful organ; it starts working the moment you get up in the					

morning, and ... until you get into the office (R.Frost).

- a) does not stop b) isn't stopping c) hasn't stopped d) isn't stopped
- e) non stop

# Module 3 THE RESPIRATORY SYSTEM

# Vocabulary

## Revise Human Body Vocabulary Word List. Translate in written.

respiratory system	air sac			
respiration	alveole, alveoli			
oxygen	invertebrates			
carbon dioxide	gill			
lung	intercostals			
inhalation	stomata			
exhalation	pectoral			
to expel	ribcage			
air-breathing vertebrates				
trachea				
bronchus, bronchi				
bronchiole				
diaphragm				
<u> </u>				
1. Study the online course. Without looking back the text "Respiratory System",				
read the statements, mark T (true) or F (false).				
1. The magnimeters experience is involved in the inteles and				

1.	The	respiratory	system	is	involved	in	the	intake	and
exchange of oxygen and carbon dioxide between an organism and the environment.									
	]								
2. 7	The pass	age of air int	to the lung	s to	supply the b	ody v	with ox	ygen is k	nown
as i	nhalation	, and the passa	nge of air o	ut of t	the lungs to ex	kpel ca	arbon d	ioxide is k	nown
as e	xhalatior	ı. []							
3. I	n human	s and other ma	ammals, the	e anat	omical featur	res of	the res	spiratory s	ystem
incl	ude trach	nea, bronchi, lu	ings, and di	aphra	gm. [ ]				

4. The lungs have a natural flexibility. []
5. During vigorous inhalation (at rates exceeding 35 breaths per minute), or in
approaching respiratory failure, intercostal muscles of respiration are recruited for
support. []
6. Normal resting respirations are 10 to 18 breaths per minute, with a time period of 2
seconds. []
7. During forced exhalation, as when blowing out a candle, expiratory muscles
including the abdominal muscles and internal intercostal muscles. []
9. Pectoral muscles and platysma are also accessory muscles.
10. Inhalation is initiated by the diaphragm and supported by the internal intercostal
muscles. []
2. Without looking back to the text "Respiratory System", read the statements,
mark T (true) or F(false).
1. Cancer can be alleviated or somewhat changed by adopting different
methods of breathing.[]
2. Breathing isn't as much about bringing in carbon dioxide as it is about
pushing out oxygen. []
3. When you begin to hyperventilate, you might become very weak and your
body will certainly become more acidic in the tissues.[]
4. The nose filters air through four distinct stages.[]
5. It is natural to change sleeping position every 10 minutes.[]
6. A newborn breathes between 30 and 60 times per minute.[]
7. Children who breathe through their nose are more likely to develop a
lisp.[]
8. Over time, breathing through the mouth can lead to shrinkage of your
jaw.[]
9. When you breathe with your mouth open at night, your bladder tends to
shrink.[]

an	slate following sentences into Russian:
1.	Primary function of lungs is to transport oxygen.
2.	Take a deep breath!
3.	You should breathe in and breathe out.
4.	Most veritable animals have two lungs.
5.	Some children lisp because they breathe through the mouth.
6.	Different ways of breathing can cause asthma.
7.	Asthma is a common disease and it affects lungs.
8.	Do you know what can cause asthma attacks?
9.	Lung diseases are quite common in the industrial regions.
10	.An average person breathes in around 11,000 litres of air every day.
an	slate following sentences into Russian/ Ukrainian:
T	his disease cannot affect the quality of life.

**3.** 

4.

3.	The study of lung diseases is known as pulmonology.					
4.	Some babies require "lung float test" before the birth.					
5.	Pneumonia is a dangerous disease that makes it harder for your lungs to absorb oxygen from the air you breathe.					
6.	People who have a large lung capacity can send oxygen around their body faster.					
7.	It is amazing that you can increase your lung capacity with the help of regular exercises.					
8.	3. Except of asthma lung diseases include emphysema, tuberculosis and bronchitis.					
9.	Your left and right lungs aren't exactly the same.					
10	.When humans breathe in or inhale, the lungs expand.					
	GRAMMAR					
	Exercise 1. Form the sentences into Passive Voice.					
	1. Breathing(to control) by a					
	respiratory center in the brain stem.					
	2. This phase (to call) inspiration or					
	inhalation.					
	3. Influenza (to cause) either by virus					
	or bacteria					

4. Flu	(to confuse) with a cold.					
5. Blood	(to pass) through pulmonary					
capillaries and	(to enter) pulmonary					
veins.						
Exercise 2. Write the appropriate form of the verb "to do".						
1.The report	at the moment.					
2.The scientific article	by 2 o'clock					
tomorrow.						
3.The investigation	by the time you come					
home.						
4.The work	by the time he came home.					
5.The work	yet.					
6.The report	just					
7.The work	while I was getting ready for					
module.						
8.The investigation	two weeks later.					
9.The work	when I entered the room.					
10.The work	yesterday at five.					

# MODULE 4 CARDIOVASCULAR SYSTEM

# Vocabulary

# Revise Cardiovascular System Vocabulary Word List. Translate in written.

1. <b>Abundant</b>	25.Evident
2. Aggravating	26.Exacerbate
3. Aid	27.High blood pressure
4. Angioplasty	28. <b>Identifier</b>
5. Approximately	29.Intermittent
6. Average	30. <b>Inward</b>
7. <b>Bind</b>	31. Issue
8. Burning	32.Maintain
9. Bypass	33. <b>Merge</b>
10. <b>Chamber</b>	34. Nourishing
11.Clarity	35.Oxygenated
12. Collateral	36.Painkillers
13.Confirm	37. Peacemaker
14.Constant	38.Platelet
15. <b>Death</b>	39.Pounding
16.Deciliter	40.Precipitating
17. <b>Decrease</b>	41.Predisposing
18. <b>Descend</b>	42.Prevent
19. Detect	43. <b>Pump</b>
20.Diastolic	44. Reasoning
21. <b>Diffuse</b>	45.Referral
22. Dilation	46.Relevant
23.Disrupting	47. <b>Removal</b>
24. Divide	48. <b>Sickle</b>

49.Sign	ificance	55. Sustaining
50.Spin	e	56.Throbbing
51.Split	<u> </u>	57. <b>Valve</b>
52.Stabl	bing	58.Ventricle
53.Strol	ke	59. <b>Vessel</b>
54. <b>Sup</b> j	ply	60. <b>Weight</b>
•	ranslate and remember medical at	obreviations:
2D	Two dimentional	
3/52	Three weeks	
3/7	Three days	
<i>3D</i>	Three dimensional	
AAA	Abdominal aortic aneurysm	
ACE	Angiotensin converting enzyme	
BP	Blood pressure	
CAD	Coronary artery disease	
CI	Cardiac index	
CNS	Central Nervous System	
CSF	Cerebrospinal fluid	
CT	Cerebral tumour, coronary thromb	oosis
CT	Computed tomography	
CTCA	Computed tomography coronary a	ungiography

CVS	Cardiovascular system
dL	Deciliter
ENT	Ear, Nose, Throat
FLAIR	Fluid attenuated inversion ecovery
GIS	Gastro-intestinal system
GUS	Genito-urinary system
HR	Heart rate
HS	Heart Sounds
ICU	Intensive care unit
IV	Intravenous
IVC	Inferior vena cava
IVMP	Intravenous methylprednisolone
LA	Left anterior descending artery
LCx	Left circumflex artery
LV	Left ventricle
LVAn	Left ventricular apical aneurysm
LVFWR	Left ventricular free wall rupture
LVP	Left ventricular pseudoaneurysm
MG	Myasthenia gravis
MI	Myocardial infarction
MRA	Magnetic resonance of arteriography
MRI	Magnetic resonance
MRI	Magnetic resonance imaging
MRI	Magnetic resonance imaging

MRIs	Magnetic resonance
MRV	Magnetic resonance of venography
NAD	Nothing abnormal detected
NM	Nuclear medicine
NYHA	New York Heart Association
O/E	On examination
P	Pulse
PAP	Pulmonary arterial pressure
PCWP	Pulmonary capillary wedge pressure
Pseudoan	Preudoaneurysm
RA	Right atrium
RIJ	The right internal jugular vein
RNP	Positive antiribonuclear
RNP	Ribonucleoprotein
RR	Resriratoty rate
RS	Respiratory system
RV	Right ventricle
<i>S3</i>	Third sound
SPECT	Single-photon emission computed tomography
SVR	Stable viral response
TEE	Transesophageal echocardiogram

## Grammar

# Study Grammar in the online course, use the appropriate form of the infinitive.

1.	They want their son (to examine)	by the doctor.
2.	You ought (to take care)	of your health.
3.	He wants his son (to become)	
		new methods of
	research.	
5.	They must (to continue)	their experiment.
6.	(to make)	a choice between these two methods
	was quite difficult.	
7.	The conference (to be hold)	tomorrow will be
	devoted to a dramatic breakthrough i	n surgery.
8.	He is not sure that it can (to do)	, but he is
	willing (to try)	
9.	All you have (to do) is (to learn)	a rule.
10	). It cannot (to do)	today.
	y Grammar in the online course. M kets to make the following sentences	ake gerunds (add "-ing") of the verbs in grammatically correct.
1.	. When I'm tired, I enjoy	television. It's relaxing. (watch)
2.	. It's a nice day. Does anyone fa	ancyfor a walk? (go)
3.	. I'm not in a hurry. I	don't mind (wait)
4.	. I wish that dog would stop	It's driving me mad. (bark)
5.	. We were hungry, so I suggeste	ddinner early. (have)
6.	. Hurry up! I don't want to risk	the train. (miss)
	. He tried to avoid1	
8.	. Could you please stop	so much noise? (make)
	. I can't help when	

10. I can't imagine	_anywhere	else	but	here. (be)
Study Grammar in the online course. Make in	afinitives (w	ith or v	withou	t "to") or
gerunds (add "-ing") of the verbs in brackets	s to make t	he foll	owing	sentences
grammatically correct.				
1. She doesn't allow	in	the h	ouse.	(smoke)
2. I've never been to Iceland but I'd	like		tl	nere. (go)
3. I'm in a difficult position. What do you	advise me			(do)
4. She said the letter was personal and we	ouldn't let i	me		it.
(read)				
5. We were kept at the police station for tw	vo hours and	d then v	we wer	e allowed
				(go)
6. Where would you recommend me		_for m	y holic	lays? (go)
7. I wouldn't recommend	in that restar	urant. T	he food	d is awful.
(eat)				
8. The film was very sad. It made	de me _			(cry)
9. Carol's parents always encouraged her			_hard	at school.
(study)				
10.Sarah gave upto find	a job in this	countr	y and o	decided to
go abroad.				(try)
Study Grammar in the online course.				
1Underline the required form of Participle I.				
1. "Dearest!" she cried, (kissing, kisse	d, having k	issed)	him pa	ssionately
(A. Conan-Doyle).				
2. An old man was approaching him (s	inging, sang	g, havin	g sung,	) a student
song in a drunken voice (A. Conan-Doyle).				

It was a strange and impressive sight to see the old man and the young

(sitting, sat, having sat) together in the same condition.

3.

- 4. (*Stepping, having stepped*) to the front of the platform, the young man apologized for the behavior of his companion.
- 5. It was a small place with one public house (*serving*, *having served*) as a hotel to the rare travelers.
- 6. (Waiting, waited) for the crowds of visitors, the waxwork figures stood apathetically in their places.
- 7. I saw a policeman (watching, having watched) me too curiously.
- 8. His eyes were full of unselfish (understanding, having understood) love.
- 9. They stood quietly there with fast (*beating*, *being beaten*, *beaten*) hearts. 10."Good day, sir", she greeted him gloomily, (*standing*, *being stood*) in the open doorway.

# Study Grammar in the online course. Open the brackets using Participle I or Participle II, Perfect Participle (active or passive):

1. In 1820 some amino acids were isolated in crystalline form from solutions
(preparing, prepared) by heating proteins with mineral
acid.
2. In the 20th century the vitamins and the elements (requiring, required)
only in small amounts were discovered.
3. The most important medicines (discovered, discovering)
in the twentieth century are vitamins made by partial
synthesis, irradiation, fermentation and other methods.
4. The (colouring, coloured)matter is used in the
production of some perfumes.
<b>5.</b> A perfume is a material (consisting, consisted) of one or
more volatile constituents.
<b>6.</b> (Having calculated, having been calculated)the
coefficients, they could write the equation of the chemical reaction.
7. (Having dissolved, having been dissolved), the substance
was filtered, evaporated and dried.

8. (Having found, having been found)	the necessary
solvent, they purified the compound by recrystallization.	
<b>9.</b> (Having synthesized, having been synthesized)	, the
compound was cooled, weight and analyzed.	
10. (Having accepted, having been accepted)	electrons, the
ions reduced to the metallic form.	

## Reading

Read the text "Cardiovascular System" in the online course.

Study the text on "Cardiovascular System" and find the synonyms to the words from the box

1) Average	a) supplements, vitamin
2) pump	b) reduction, declining
3) descend	c) provide, outfit
4) maintain	d) fall, get down
5) decreasing	e) medium, standart
6) coalesce	f) replacement, extraction
7) nutrient	g) restrain, hold off
8) removal	h) push, force out
9) supply	i) bend, join
10) prevent	j) support, keep up

Complete the sentences by choosing the words: Breath, heart, heart, movement, pumps, smallest, top, valve, vein, vessel

1. Artery is one of the tubes that carries blood from your \_\_\_\_\_ to the rest of your body.

2.	Atrium is one of the two spaces in the of your heart that push
	blood into the ventricles.
3.	Capillaries are the type of blood vessel in the body.
4.	Circulation is the of blood around your body.
5.	Heart is the organ in your chest which blood through your body.
6.	Lung is one of the two organs in your body that you with.
7.	is a part of a tube or pipe that opens and shuts like a door to control
	the flow of liquid.
8.	is one of the tubes which carries blood to your heart from other parts
	of your body.
9.	Ventricle is one of the two spaces in the bottom of your through
	which blood pumps out to your body.
10	0 is a vein in your body.
	Complete the sentences:
1)]	Human cardiovascular system consists of
	···
2)	The parts of systemic circulation are
2) [	
3)	The components of blood are
4) 7	
4)	The function of aorta is
5) 7	The two major veins are
3)	
6) '	Two great vessels go into (enter)
<i>J)</i>	
7)	The heart consists of
• ,	

8) The	e right atrium is
9) To	get to the different organs of the body the blood passes through
10)	A blood supply to the heart muscle is provided by
Read tl	he text on "Red Blood Cells" (online course) and answer the following
qu	estions to the text :
1)	How are red blood cells also called?
2)	What are the components of the
	blood
3)	What is the primary function of red blood
	cells?
4)	What is the shape of red blood
	cells?
5)	Why do red blood cells have such
	shape?
6)	How is the blood type
	determined?
7)	What helps the body's immune system to recognize it's own red blood cell
	type?

# Read the text Red Blood Cell Structure (online course) and take the test.

## Test 1

1. The layer of simple squamous epithelium that lines the inside of the heart is called
a) myocardium.
b) pericardium.
c) endocardium.
d) epicardium.
2. Blood transported by the pulmonary veins returns to the
a) left atrium.
b) right atrium.
c) right ventricle.
d) left ventricle.
3. The valve between the left ventricle and the blood vessel leaving the left ventricle
is the
a) bicuspid valve.
b) tricuspid valve.
c) pulmonary semilunar valve.
d) aortic semilunar valve.
<b>4.</b> The bulk of the heart consists of
a) cardiac muscle.
b) smooth muscle.
c) striated muscle.
d) connective tissue.
5. The valve located between the right atrium and the right ventricle is the
a) tricuspid valve.
b) bicuspid valve.
c) mitral valve.

d) semilunar valve.

- **6.** Blood vessels that carry blood away from the heart are called a) arteries. b) veins. c) capillaries. d) All of the above. 7. The smallest type of blood vessels are a) arteries.
- b) arterioles.
- c) venules.
- d) capillaries.
- **8.** Blood pressure is highest in the
- a) arteries.
- b) arterioles.
- c) veins.
- d) capillaries.
- **9.** Which of the following increase(s) blood pressure?
- a) increased cardiac rate
- b) increased peripheral resistance
- c) increased blood volume
- d) All of the above.
- 10. The pulse is a direct reflection of the
- a) cardiac output.
- b) blood pressure.
- c) venous return.
- d) heart beat.

#### Test 2

- 1. How many chambers does the heart have?
  - A) Six
  - B) Five

C) Four D) Three 2. The movement of blood through the heart and body is called: A) Circulation B) Locomotion C) Ventriculation D) Heart pump 3. The beating sound your heart makes comes from: A) Blood going in the wrong direction B) Valves closing C) The heart skipping beats D) Your ears playing tricks on you 4. With circulation, the heart provides your body with: A) Oxygen B) Nutrients C) A way to get rid of waste D) All of the above 5. The atria are the "upstairs" chambers of the heart and these parts are the "downstairs" chambers: A) Valves B) Ventricles C) Blood D) Candy hearts 6. What wall separates the left side and right side of the heart?

A) Ventricle

B) Atrium
C) Septum
D) The great wall
7. What parts act like doors that control blood flow in the heart?
A) Valves
B) Heart dams
C) Kidneys
D) Chambers
8. What organ removes waste from blood?
A) Heart
B) Lungs
C) Eyes
D) Kidneys
9. You can keep your heart strong by:
A) Eating heart-shaped candy
B) Doing activities, like playing outside, riding your bike, and swimming
C) Smoking
D) Sleeping 18 hours a day
10. These are tubes that carry blood back to the heart:
A) Arteries
B) Veins
C) Pipes
D) Tubas

## MODULE 5

## THE GASTROINTESTINAL SYSTEM

# Vocabulary

## Read, translate in written and remember to following words:

Abnormal	Breakdown
Absorb	Burp
Achalasia	
Acute	C
Alarmed	Cancer
Alcoholic hepatitis	Catalytic enzyme
Amylase	Celiac disease
Analysis	Cholangitis
Anaesthetise	Cholecystitis
Antacid	Chronic
Anus	Chyle
Appointment	Chyme
Approximately	Cirrhosis
Arrange	Colon
Assimilate	Colonoscopy
Autoimmune hepatitis	Colostomy bag
Avoid	Complicated
Average	Condition
В	Constipation
Belly	Containers
Bleeding	Continuation
Blood	Cool
Bloating	Crohn disease
Bolus	Crude
Bowel	Cure

D	Gallstones					
Damage	Gastric juice					
Defecate	Gastroenterologist					
Diarrhea	Gastroesophageal reflux disease					
Diet	(GERD)					
Dietitian,	Gastrointestinal tract					
Digestion						
Digestive system	Н					
Discomfort	Harm					
Dissolve	Heartburn					
Diverticulitis	Hemorrhoids					
Drugs	Hiatal hernia					
Duodenal	Hold					
Duodenal ulcer	Hydrochloric acid					
	Hypersensitivity					
E						
Effect	I					
Endoscopic retrograde	Indicate					
cholangiopancreatography (ERCP)	Incontinence					
	Initially					
Endoscopic ultrasound	In-patient					
Endoscopy	Intention					
$\mathbf{F}$	Inserting					
Fissure	Intestinal ischemia					
Fit	Involve					
Flexible	Irritable bowel syndrome					
Foot (pl. feet)	${f L}$					
	Lab					
G	Labelling					
Gallbladder	Lactose intolerance					

Laparoscopy	Painful
Large intestine	Pancreas
Length	Pancreatic pseudocyst
Liquids	Pancreatitis
Life-threatening	Peptic ulcer
Lingual lipase	Perforated ulcer
Lingual	Peristalsis
papillae	Physician assistant (PA)
Liver	
Liver failure	
Lymphatic system	Proctitis
	Push down
M	R
Malabsorption	Radiologist
Mastication	Reabsorb
Mouth (oral cavity)	
	Receptionist
N	Rectal prolapse
Nausea	Rectum
Nurse practitioner (NP)	Relief
Nutritionist	Remove
0	Rhythmic contraction
Odour-free	Routine
Operate	<b>S</b>
Operation	Saliva
Outcome	Salivary glands
Out-patient	Sample
Over-eating	Scared
P	Secretion
Palliate	

Serous glands	$\mathbf{W}$
Short bowel syndrome	Weight gain
Small intestine	Wink
Stage	Worse
Stomach	
Stomach acid	
Stool	
Stricture (narrowing)	
Surface	
Surgeon	
Swallow	
T	
Tablets	
Tongue	
Tooth (pl. teeth)	
Tranquilizer	
Trigger	
Tube	
Tests	
$\mathbf{U}$	
Ulcer	
Ulcerative colitis	
Urine	_
V	
Via	_
Vomiting	_

## Reading

I. Read the text "GASTROINTESTINAL SYSTEM" (online course), study the picture dictionary and do the exercises.

**EXERCISE 1.** Match the word with the definitions:

Liver	a dark colored elongated organ, filtering the blood
Gallbladder	It stores solid waste until it leaves the body through the anus
Small intestine	a punch, connecting ileum with the ascending colon of the large intestine
Pancreas	a dark brown organ in upper abdomen which creates bile
Esophagus	an organ (located under the small intestine) producing chemicals and hormones
Spleen	a sac, located under the liver. Storing bile is its function
Duodenum	a continuation of the pyrolic end of the stomach
Rectum	It consists of four sections: ascending, transverse, descending and sigmoid colon
Colon	It is known as "food pipe", it comes down from the mouth to the stomach
Caecum	first and the main digestive part of the small intestine

### **EXERCISE 2. Choose the correct term:**

Ca	olon,	cancer,	acid,	poisonii	ng,	the	large	intest	ine,	vomii	ting,	nausec	ı, pr	oblem,
ja	undic	e, gastro	intesti	inal disea	se									
1.	A c	common	and	difficult	to	trea	.t			is	esop	hageal	dise	ase in
pr	ogres	sive syst	emic s	sclerosis (	PSS	).								
2.	Infla	mmation	n of t	he lining	of				is	s a di	sease	e, whic	h is	called
dy	sente	ry.												

3. Loss of appetite, pain, nausea, and bleeding from stomach are the
symptoms of a person, suffering from gastritis.
4. Abnormal cells (in some people with GERD) may lead toof the
esophagus.
5. Spasms of the muscles in the wall of the cause amebic colitis.
6. Sodium bicarbonate may be prescribed to correct the pH balance of the body when
produces a metabolic acidosis.
7. Diarrhoea may be got when you have been in contact with somebody who has it or
from food after eating contaminated food or drinking contaminated
water.
8. A yellowish discoloration of the sclera (eye white area) and the skin is the main
symptom of
9. All stimuli that cause work via the vomiting center in the brain, which
gives signals to the sensation of it and coordinates the physical act of vomiting.
10. Your esophagus can be damaged by and it is possible hard to swallow.
EXERCISE 3. Read some interesting facts about Digestive System and translate
them:
• The average human being has over 400 different species of bacteria in their
colon.
• It takes <b>approximately</b> seven seconds for food to travel through the esophagus
and reach the stomach
• An adult female's small intestine is longer than the average adult
male's
• Paul Hunn, who lives in London, <b>holds</b> the world record for the loudest human
burp
• The liver has over 500 different functions, one of which is producing bile to
break down digestive fats

• The stomach of an adult holds up to 1.5 liters of food and food stays here for 2
• Estimates of how much saliva our bodies produce each day range from 1 to 3 liters
• The whole digestive tract is over 29 feet long, starting at the mouth and ending at the anus.
EXERCISE 4. Read and translate the following sentences:
1. The liver plays a very important part in the vital activity of the organism.
2: From the stomach the food passes in small portions into the small intestine where it undergoes further mechanical and chemical changes.
3. The small intestine is only 1.5 to 2 inches in diameter at the point where it leaves the stomach and it narrows somewhat thereafter.
4. After the food leaves the stomach it is acted on by several digestive enzymes.
5. The stomach is a bag the walls of which are largely made up of involuntary or smooth muscle fibres.
6. The liver is a large and extremely important organ whose work is somewhat intermediate between digestion and nutrition.
7. The esophagus is a 9 to 10-inch muscular tube that extends from the pharynx to the stomach.
8. The food material which is taken into the mouth must be digested mechanically or chemically as it travels through the gastrointestinal tract.

9. Jaundice is the yellow color of skin sclerae and mucous membranes due to an increase of bilirubin in the plasma.

10. Some patients' digestive systems react more intensely to emotional stress due to hypersensitive nerve endings in their intestinal tract.

\_\_\_\_\_

# Module 6 REPRODUCTIVE SYSTEM

Exercise 1. Translate following terms in written and read the definitions:

Term	Definition
Bladder	The organ that stores urine.
Cervix	The lower, narrow end of the uterus that forms a canal between
	the uterus and vagina.
Ejaculatory Ducts	Either of a pair of ducts through which semen passes, each of
	which is formed by the merging of the vas deferens and the
	duct of the seminal vesicle.
Endometrium	The layer of tissue that lines the uterus.
Fallopian Tubes	A slender tube through which eggs pass from an ovary to the
	uterus. In the female reproductive tract, there is one ovary and
	one fallopian tube on each side of the uterus.
Glands	A group of cells that secrete substances. Endocrine glands
	secrete hormones. Exocrine glands secrete salt, enzymes, and
	water.
Hormones	A messenger molecule that helps coordinate the actions of
	various tissues; made in one part of the body and transported,
	via the bloodstream, to tissues and organs elsewhere in the
	body.
Lymph Nodes	A rounded mass of lymphatic tissue that is surrounded by a
	capsule of connective tissue. Lymph nodes filter lymph
	(lymphatic fluid), and they store lymphocytes (white blood
	cells). They are located along lymphatic vessels. Also called
	lymph gland.
Myometrium	The muscular outer layer of the uterus.

Ovaries	The ovaries are a pair of female reproductive glands in which
	the ova, or eggs, are formed. The ovaries are located in the
	pelvis, one on each side of the uterus.
Penis	An external male reproductive organ. It contains a tube called
	the urethra, which carries semen and urine to the outside of the
	body.
Prostate	A gland in the male reproductive system. The prostate
	surrounds the part of the urethra (the tube that empties the
	bladder) just below the bladder, and produces a fluid that forms
	part of the semen.
Rectum	The last several inches of the large intestine closest to the anus.
Scrotum	In males, the external sac that contains the testicles.
Semen	The fluid that is released through the penis during orgasm.
	Semen is made up of sperm from the testicles and fluid from
	the prostate and other sex glands.
Seminal Vesicle	A gland that helps produce semen.
Sperm	The male reproductive cell, formed in the testicle. A sperm
	unites with an egg to form an embryo.
Testicles (Testes)	One of two egg-shaped glands inside the scrotum that produce
	sperm and male hormones. Also called testicle.
Ureter	The tube that carries urine from the kidney to the bladder.
Urethra	The tube that carries urine from the bladder to the outside of
	the body.
Uterus (Womb)	The small, hollow, pear-shaped organ in a woman's pelvis. This
	is the organ in which a fetus develops. Also called womb.
Vagina	The muscular canal that goes from the uterus to the outside of
	the body. During birth, the baby passes through the vagina.
Vas Deferens	A coiled tube that carries the sperm out of the testes.

Exercise 2. Read some information about the Reproductive System in the online course. Translate the following sentences.

## THE REPRODUCTIVE SYSTEM

1.	The reproductive system is a collection of internal and external organs - in both
<u>males</u>	and females - that work together for the purpose of procreating.
2.	New life begins when an egg from a woman is fertilised by sperm from a man.
	THE FEMALE REPRODUCTIVE SYSTEM
1.	The female reproductive organs are the vagina, womb (uterus), fallopian tubes
	and ovaries:
2.	If the egg is fertilised on its journey down the fallopian tube, it lodges in the
	womb lining. If the egg is unfertilised, falling levels of the hormone
	progesterone make the womb lining come away. This is called a period, or
	menstruation.

## THE MALE REPRODUCTIVE SYSTEM

The male reproductive organs are the penis, the testicles, the epididymis, the vas deferens and the prostate gland:

	MALE REPRODUCTIVE HORMONES
Hormones a	re chemical messengers made by glands in the body. Androgens are the
	at make men 'male'.
morniones un	at make men mare .
	THE SPERM
The sperm is	s the male reproductive cell. Its role is to fertilise an egg. It contains the
man's geneti	c material in its head.
Exercise 3. 1	Mark the following statements T (true) or F (false):
1. Scien	tists argue if the reproductive system is among the most important
system	s in the entire body. [ ]
2. Vagi	na is a muscular canal around 5.5 cm long that extends from the neck of
the wo	mb to the genitals. [ ]
3. Speri	m and sex hormones are made by the testicles. [ ]
4. Ovar	ies are two small almond-shaped glands that contain ova. Sex hormones
are not	made by the ovaries. [ ]
5. The $\epsilon$	epididymis collects and stores sperm. [ ]
6. Speri	n production requires a temperature around 2 °C lower than that of the
atmosp	heric air. [ ]
7. The a	verage menstrual cycle is around 24 days. []
8. Andr	ogens are responsible for sexual functioning, fertility and secondary
sexual	characteristics. []
9. No e	gg contains genetic material. []

- 10. Sperm production continues throughout a man's life, from puberty into old age.
- 11. The womb is a muscular organ, shaped like an upside down apple. []
- 12. Penis's lining is called the endometrium. []
- 13. The most important androgen is testosterone, which is manufactured in the ovaries. []
- 14. If you don't want to have a baby you can improve your chance of getting pregnant if you know about ovulation and the 'fertile window' in the menstrual cycle. []

# Exercise 4. Read the following texts and fill in the gaps with the appropriate term: Text 1.

To secrete	bloodstream	hypothalamus	development	thyroid	hormone
------------	-------------	--------------	-------------	---------	---------

#### What is the Role of the Endocrine System?

The endocrine system is made up of glands that produce and secrete hormones,
chemical substances produced in the body that regulate the activity of cells or organs.
These hormones regulate the body's growth, (the physical and chemical processes of
the body), and sexual and function. The hormones are released
into the and may affect one or several organs throughout the
body.
Hormones are chemical messengers created by the body. They transfer information
from one set of cells to another to coordinate the functions of different parts of the
body.
The major glands of the endocrine system are the hypothalamus, pituitary,
, parathyroids, adrenals, pineal body, and the reproductive organs
(ovaries and testes). The pancreas is also a part of this system; it has a role in
production as well as in digestion.
The endocrine system is regulated by feedback in much the same way that a
thermostat regulates the temperature in a room. For the hormones, a signal is sent

from the ... to the pituitary gland in the form of a "releasing hormone," which stimulates the pituitary to secrete a "stimulating hormone" into the circulation. The stimulating hormone then signals the target gland \_\_\_\_\_\_\_ its hormone. As the level of this hormone rises in the circulation, the hypothalamus and the pituitary gland shut down secretion of the releasing hormone and the stimulating hormone, which in turn slows the secretion by the target gland. This system results in stable blood concentrations of the hormones that are regulated by the pituitary gland.

#### Text 2.

reproductive	facial hair	estrogen	androgens

## **Reproductive Glands**

The reproductive glands are the main source of sex hormones. In males, the testes
ocated in the scrotum, secrete hormones called; the mos
mportant of which is testosterone. These hormones affect many male characteristic
for example, sexual development, growth of and pubic hair) a
well as sperm production. In females, the ovaries, located on both sides of the uterus
produce and progesterone as well as eggs. These hormone
control the development of female characteristics (for example, growth), and they are
also involved in functions.

# Exercise 6. Complete the sentences with the proper forms of the words given in brackets:

## Female reproductive system problems

Some of the conditions (woman/women) may experience at some time in their (life/lives) include:

- 1) Endometriosis the presence and growth of (function/functioning) endometrial tissue in places other than the uterus
- 2) Fibroids non-malignant tumours of the womb
- 3) Infertility (*ability/inability*) to become pregnant

- 4) (Pain/painful) periods
- 5) Premenstrual (tense/tension)
- 6) STIs bacteria or viruses (*acquired/acquiring*) through sexual contact, some of which can cause cancer or infertility.

# MODULE 7 ENDOCRINE SYSTEM

## Translate the terms and their definitions into Russian/ Ukrainian:

Adenoma	A hagin tumor of an andogina	
Adenoma	A begin tumor of an endocrine	
	gland, such as a parathyroid	
	adenoma	
Adrenaline	The hormone secreted by the	
	central part (medulla) of the	
	adrenal gland	
Anaplastic Thyroid	A rare type of thyroid cancer that	
Cancer	spreads rapidly. This is the least	
	common but most deadly of all	
	thyroid cancers	
Antithyroid Drugs	Medications that slow down the	
	thyroid gland's ability to produce	
	thyroid hormone. There are	
	several different types, but most	
	interfere with the thyroid's ability	
	to synthesize hormone	
Autocrine	chemical signal that elicits a	
	response in the same cell that	
	secreted it	
Beta Blocking Drug	Medications that help block the	
	symptoms (palpitations, tremor)	
	caused by excess thyroid hormone	
Calcitonin	A hormone produced by medullary	

	thyroid cancer. Its measurements	
	in the blood is a sensitive test for	
	early diagnosis, as well as	
	detecting recurrance following an	
	operation for medullary thyroid	
	cancer	
Cold Nodule	A lump in the thyroid gland that	
	does not take up iodine on a scan	
	as well as the surrounding thyroid	
	tissue.	
	Cancers show on a scan as cold	
	nodules but most cold nodules are	
	not cancer	
Compensatory	Thyroid enlargement due to	
Goiter	inefficient thyroid tissue that	
	compensates for its inefficiency by	
	enlarging	
De Quervain's	Inflammation of the thyroid gland	
Thyroiditis	causing enlargement and pain. It	
	often causes fever and symptoms	
	of hyperthyroidism	
Desiccated Thyroid	A crude preparation made of	
	animal thyroid glands. It was the	
	first available source of thyroid	
	first available source of thyroid hormone (thyroxine). Because of	
	·	

Diffuse Goiter	Generalized enlargement of the	
	entire thyroid gland with a smooth	
	surface	
Endocrine gland	tissue or organ that secretes	
	hormones into the blood and	
	lymph without ducts such that they	
	may be transported to organs	
	distant from the site of secretion	
Endocrine system	cells, tissues, and organs that	
	secrete hormones as a primary or	
	secondary function and play an	
	integral role in normal bodily	
	processes	
Exocrine system	cells, tissues, and organs that	
	secrete substances directly to	
	target tissues via glandular ducts	
Goiter	Enlargement of the thyroid gland	
	for any reason. It may be	
	generalized enlargement (diffuse)	
	or asymmetric (nodular)	
Hormone	secretion of an endocrine organ	
	that travels via the bloodstream or	
	lymphatics to induce a response in	
	target cells or tissues in another	
	part of the body	
Hot Nodule	A lump in the thyroid gland that	
	concentrates iodine on a scan more	
	than the normal surrounding	
	thyroid tissue Hot nodules are	

	very rarely cancerous	
Iodine	A non-metallic element found in	
	food. It is necessary for normal	
	thyroid function.	
Isthmus	A small piece of thyroid tissue that	
	connects the right and left lobes of	
	the thyroid gland	
Medullary Thyroid	A rare form of thyroid cancer that	
Carcinoma	produces an abnormal hormone	
	(calcitonin). This form of thyroid	
	cancer is often hereditary	
Nodular Goiter	Enlarged thyroid gland with one or	
	more nodules	
Nodule	A lump or growth of tissue within	
	the thyroid gland	
Osteoporosis	The process by which too much	
	calcium is lost from the bones	
	which causes the bones to become	
	brittle. Associated with aging, but	
	made much worse by	
	hyperparathyroidism	
Paracrine	chemical signal that elicits a	
	response in neighboring cells; also	
	called paracrine factor	
Parathyroid Glands	Four small glands located in the	
	neck, near the thyroid gland. They	
	produce parathormone which	
	controls calcium metabolism	

Pheochromocytoma	A tumor of the adrenal medulla	
1 neoemomocytoma		
	which secretes adrenaline	
Pituitary Gland	A small gland the size of a peanut	
	that is located behind the eyes of	
	the base of the brain. It secretes	
	hormones that control other glands	
	(thyroid, adrenal, testicles and	
	ovaries) as well as growth	
Parathyroid	Hormone secreted by the	
Hormone (PTH)	parathyroid glands. Circulates in	
	the blood stream to cause	
	absorption of calcium from our	
	diets, and out of bones	
Propylthiouracil	An antithyroid medication which	
(PTU)	prevents thyroid cells from	
	producing thyroid hormone. Used	
	to control hyperthyroidism	
Silent Thyroiditis	A self limited thyroiditis that	
	resembles Hashimoto's thyroiditis	
	on biopsy but De Quervain's	
	thyroiditis on scan	
Thyroid Stimulating	A hormone produced by the	
Hormone (TSH)	pituitary that stimulates the thyroid	
	gland. Its measurement is a very	
	sensitive test of thyroid status	
Thyroid Binding	A protein in the blood that binds	
Globulin (TBG)	with thyroxine (T4)	
Thyroglobulin	A protein in the thyroid gland, a	
	small amount of which gets into	

	the blood. Its level is followed	
	after thyroid surgery to detect	
	recurrence of thyroid cancer	
Thyroidectomy	An operation removing all or part	
	of the thyroid gland	
Thyroiditis	Inflammation of the thyroid gland	
Thyroxine (T4)	The primary hormone produced by	
	the thyroid gland. It is available as	
	medication	
Toxic Goiter	An enlarged thyroid gland that	
	produces too much thyroid	
	hormone	
TRH Test	A very sensitive test for abnormal	
	thyroid function	
Triiodothyronine	The second hormone produced by	
(T3)	the thyroid gland. It is more potent	
	than thyroxine (T4)	

#### **READING**

1. In the online course, read the text "Endocrine System", study the picture, and do the following exercises.

Read the following text and fill in the gaps with the appropriate term:

monitoring respond resection	benefits	stimulate
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### **CAREERS CONNECTIONS: ENDOCRINOLOGIST**

Endocrinology is a specialty in the field of medicine that focuses on the treatment of endocrine system disorders. Endocrinologists—medical doctors who

specialize in this field—are experts in treating diseases associated with hormonal systems, ranging from thyroid disease to diabetes mellitus. Endocrine surgeons treat endocrine disease through the removal, or \_\_\_\_\_\_\_, of the affected endocrine gland.

Patients who are referred to endocrinologists may have signs and symptoms or blood test results that suggest excessive or impaired functioning of an endocrine gland or endocrine cells. The endocrinologist may order additional blood tests to determine whether the patient's hormonal levels are abnormal, or they may \_\_\_\_\_\_ or suppress the function of the suspect endocrine gland and then have blood taken for analysis. Treatment varies according to the diagnosis. Some endocrine disorders, such as type 2 diabetes, may \_\_\_\_\_\_ to lifestyle changes such as modest weight loss, adoption of a healthy diet, and regular physical activity. Other disorders may require medication, such as hormone replacement, and routine \_\_\_\_\_ by the endocrinologist. These include disorders of the pituitary gland that can affect growth and disorders of the thyroid gland that can result in a variety of metabolic problems. Some patients experience health problems as a result of the normal decline in hormones that can accompany aging. These patients can consult with an endocrinologist to weigh the risks and \_\_\_\_\_\_ of hormone replacement therapy intended to boost their natural levels of reproductive hormones.

In addition to treating patients, endocrinologists may be involved in research to improve the understanding of endocrine system disorders and develop new treatments for these diseases.

#### **GRAMMAR**

#### Take the test to check your knowledge of grammar:

- **1.** Endocrine \_\_\_\_\_\_ hormones which are released into the bloodstream; exocrine make a substance released directly onto skin surface or into a duct, e.g. salivary duct.
- a) make b) making c) makes d) is making e) to make

2. Reproduction, growth and development, internal homeostasis, helps with
environmental changes.
a) cope b) to cope c) copes d) coped e) copping
3. High blood glucose to insulin release; Low blood glucose to
glucagon release.
a) leadlead b) to leadto lead c) leadingleading
d) leadsleads e) ledled
<ul><li>4. Hypothalamus makes stimulatory hormones releasing hormones and inhibitory hormones.</li><li>a) calls b) call c) calling d) called e) to call</li></ul>
a) cans b) can c) cannig d) cancd c) to can
5. Morphine like compound made by anterior pituitary gland, but really a neuromodulator, not a hormone.  a) was b) am c) to be d) been e) is
<b>6.</b> Inferior to larynx, and histology shows follicles filled with thyroid hormone (colloid), and the surrounding follicle cells the hormone.
a) to make b) makes c) making d) made e) make
7. The interstitial cells parafollicular cells and make calcitonin.
a) call b) is called c) are called d) calls e) to call
8. Endocrine make hormones & are into the bloodstream; exocrine make a
substance released directly onto skin surface or into a duct, e.g. salivary duct.
a) released b) release c) releasing d) releases e) to release

9. Hormone by an endocrine gland & is a chemical messenger traveling
in the bloodstream.
a) make b) is made c) makes d) made e) to make
10. The target cell responds to the hormone because it matching receptors
for the hormone.
a) <u>has</u> b) to have c) had d) having e) have
11. The testes produce testosterone, which the production of sperm and
the development of male sexual characteristics at puberty.
a) stimulating b) to stimulate c) stimulated d) stimulates e) stimulate
12. Hormones help maintain homeostasis on a daily basis and the
activity of smooth and cardiac muscles, and some glands.
a) regulates b) regulate c) to regulate d) regulating e) regulated
13. When the amount of a hormone in the blood reaches a certain level, the
endocrine system sends that stop the release of that hormone.
a) signaled b) to signal c) signaling d) signals e) signal
<ul> <li>14. Graves Disease a common form of hyperthyroidism resulting from overproduction of thyroxine.</li> <li>a) are b) was c) is d) be e) been</li> </ul>
15. Scientific research on human epidemiology, laboratory animals, and fish and
wildlife suggests that environmental contaminants can the endocrine
system leading to adverse-health consequences.
a) disrupt b) be disrupt c) to disrupt d) disrupting e) disrupted

# Take the test to check your knowledge of medical terminology:

<b>1.</b> Along with the nervous system, the system coordinates the various
activities of body parts.
a) digestive b) endocrine c) circulatory d) respiratory e) excretory
The organ that responds to the action of a hormone is known as the
2. The organ that responds to the action of a hormone is known as the
organ.
a) acting b) target c) regulation d) feedback e) promotion
3 hormones usually pass through the cell membrane by diffusion
a) steroid b) exocrine c) G protein d) Peptide e) Polypeptide
a) steroid b) exocrine e) a protein d) replide e) rotypeptide
4. The protein that is found embedded in the cell membrane and allows the
hormone to bind to it is known as the
a) mRNA b) secondary messenger c) receptor
d) receiver e) nucleus
The building blocks of mutain based hormones are
<b>5.</b> The building blocks of protein-based hormones are
a) sugars b) fats c) fatty acids d) amino acids e) ATP
<b>6.</b> Further release of a hormone is usually down-regulated by the hormone itself. This
is known as
a) negative feedback b) positive feedback c) G protein activation
d) Transcriptional activation e) Parasympathetic firing
7. Which of the following correctly describes second messengers in hormonal action
a) They are produced within a second
b) They are used only when the first messengers are not functioning
c) They are found on the cell membrane and allow the hormone to bind

d) They break down the hormones that enter the cell
e) They pass on the hormonal message within the cell
<b>8.</b> Testosterone is produced by the
a) pituitary gland b) pineal gland c) hypothalamus d) testes e) thymus
<b>9.</b> Hypersecretion of the growth hormone during childhood is likely to lead to
a) gigantism b) diabetes insipidus c) diabetes mellitus
d) hypothyroidism e) Cushing's syndrome
10. Home pregnancy tests measure the level of in the subjects urine
a) estrogen b) testosterone c) human growth hormone
d) human chorionic gonadoropin e) prolactin
11. Which of the following is NOT secreted by the anterior pituitary
a) growth hormone
b) adrenocorticotropic hormone (ACTH)
c) prolactin
d) thyroid-stimulating hormone (TSH)
e) epinephrine (adrenaline)
12. Which of the following is secreted by the pancreas?
a) thyroid hormone b) parathyroid hormone c) insulin d) gastrin e) renin
13. Which of the following is secreted by the adrenal gland?
a) glucagon b) norepinephrine c) thyroid hormone d) gastrin e) estrogen
14. The adrenal cortex releases cortisone to help the body deal with:
a) flight-or-fight responses b) long-term stress
c) excess urine production d) acromegaly e) cancer

15. Pitocin is a synthetic form of used during childbirth to induce labor
artificially
a) oxytocin b) estrogen c) progesterone
d) thyroid hormone e) the pituitary hormone
<b>16.</b> Androgens is a term to describe in general.
a) female sex hormones b) male sex hormones c) thyroid hormones
d) pituitary hormones e) hormones of the adrenal glands
17. The pineal gland produces the hormone melatonin which rise and fall in levels
with day and night. This has led some scientists to propose that melatonin is involved
in
a) food intake regulation b) glucose metabolism c) growth in bone length
d) maintaining pregnancy e) sleep regulation
<b>18.</b> Tropic hormones are hormones that
a) produce antibodies
b) are produced in large amounts
c) stimulates organs to secrete other hormones
d) are produced only in the tropics
e) are non-specific in their binding
19. In patients with diabetes mellitus, the level of glucose in the blood and urine is:
a) zero b) unusually low c) normal d) unusually high
e) constantly responding to light-dark cycles
<b>20.</b> The follicle-stimulating hormone (FSH) stimulates:
a) follicle development in the ovaries of females
b) follicle development in males
c) the growth of follicles throughout the body

d) follicle development in the placenta of pregnant females
e) death of follicles in the body
21. Aldosterone stimulates the reabsorption of water and minerals in the kidney
tubules. What symptoms would you expect in a patient with hypersecretion of
aldosterone?
a) excessive muscle buildup b) muscle wasting c) swollen tissues
d) decreased blood pressure e) slower heart rate
<ul> <li>22. A generalized hypersecretion of all the adrenal cortex hormones causes</li> <li>disease.</li> <li>a) Graves b) Addison's c) Cushing's d) Cretinism e) Diabetes insipidus</li> <li>23. Which of the following hormones is NOT secreted by the pituitary gland?</li> <li>a) Glucagon b) Follicle-stimulating hormone c) Luteinizing hormone</li> </ul>
d) Oxytocin e) Antidiuretic hormone
Choose the right term:  1. After consuming a banana split, which hormones would be expected to
increase?
a) Prolactin b) Glucagon c) Insulin d) Parathyroid Hormone
<ul> <li>2. Hormones released by nerve cells of the regulate hormones secreted by the</li> <li>a) hypothalamus, anterior pituitary</li> <li>b) hypothalamus, posterior pituitary</li> <li>c) anterior pituitary, hypothalamus</li> <li>d) cerebellum, posterior pituitary</li> </ul>
<ul><li>3. Which of these hormones is secreted in the liver?</li><li>a) renin</li><li>b) somatomedin</li><li>c) erythropoietin</li><li>d) estrogen</li></ul>
<b>4.</b> What is the ultimate purpose of hormones?
a) to maintain growth b) to keep the brain functioning

c) to stimulate metabolism d) none of the above				
<b>5.</b> What is another name for thyroxine?				
a) tetraiodothyronine b) thyroid c) thymus d) triiodothyronine				
6. Adrenaline is				
a) produced by the adrenal cortex				
b) also called epinephrine				
c) released when the parasympathetic nervous system is stimulated				
d) none of the above				
7 If you dropk a liter of water very quickly, the regult would be				
7. If you drank a liter of water very quickly, the result would be				
a) increased secretion of oxytocin b) decreased secretion of antidiuretic hormone				
c) decreased secretion of oxytocin d) increased secretion of antidiuretic hormone				
<b>8.</b> How is hormone secretion regulated?				
a) by the nervous system b) by other hormones				
c) by changes in blood composition d) all of the above				
9. When an excess of a hormone is present, the number of target cell receptors may				
decrease. This change is called				
a) adaptation b) down-regulation c) up-regulation d) accommodation				
10. Which of the following is NOT a function of insulin?				
a) increased cellular absorption of glucose				
b) production is inhibited by low blood sugar				
c) increased rate of glycogen synthesis				
d) increased breakdown of lipids				

11. This hormone is primarily responsible for regulating the rate of metabolism.

a) growth	b) thyroxine	c) adrenaline	d) norepinephrine				
12. An example of a fast-acting hormone is:							
a) human grow	th hormone b) a	drenaline c) oest	crogen d) glucagon				
<ul><li>13. The hormone called the 'fight or flight' hormone is:</li><li>a) adrenaline</li><li>b) testosterone</li><li>c) human growth hormone</li><li>d) insulin</li></ul>							
14. Caffeine in Coca-Cola and coffee interferes with the anti-diuretic hormone. The							
result of large	doses of caffeine w	ould be:					
a) dehydration	b) prolonged vi	itamin deficiency	c) death d) hunger				
<b>15.</b> To induce of	childbirth, what hor	mone can be injec	ted intravenously?				
a) prolactin	b) progesterone	c) oxytoxin d	) the anti-diuretic hormone				

#### References

#### **Textbooks**

- Avrakhova L. Y. English for medical students: textbook for students of higher medical educational institutions of the 4th accreditation level / L. Y. Avrakhova, L. O. Palamarenko, T. V. Yakhno; ed. by.: L. Y. Avrachova. 6th ed. Kyiv: Medicine, 2018. 448 p.
- 2. Maslova A. M. Essential English for Medical Students: учебное пособие / А.М. Maslova, Z.I. Winestein, L.S. Plebeyskaya. 4-th ed. М.: Лист Нью, 2003. 319 с.
- 3. Маслова А. М. Английский язык для медицинских вузов : учебник / А. М. Маслова, З. И. Вайнштейн, Л. С. Плебейская. 5-е изд., испр. М. : ГЭОТАР-МЕДИА, 2012. 336 р.
- 4. Essentials of Medical English = Професійна англійська для медиків : практикум з дисципліни «Іноземна мова за професійним спрямуванням» для студентів медичних факультетів / уклад. О.В. Гордієнко, О.А. Мирошниченко, А.В. Неруш, Ю.В. Орел-Халік, Л.В. Сазанович, О.Л. Соляненко. Запоріжжя : [ЗДМУ], 2018. 168 с.
- 5. Sabluk A. H. English for medical students: textbook for student of medical colleges, academy and nursing institutes / A. H. Sabluk, L. V. Levandovska. 4th ed. revised. Kyiv: AUS Medicine Publ, 2018. 576 p.
- English for professional purposes: medicine: textbook for students of higher medical education establishments / O. O. Pisotska [et al.]. - Kyiv: AUS Medicine Publ, 2018. - 368 p.

#### Additional textbooks

- 1. Прокоп І.А. Англійська мова за професійним спрямуванням: Медицина: навч. посіб. / І.А. Прокоп, В.Я, Рахлецька, Г.Я. Павлишин. Тернопіль: ТДМУ, 2010.
- 2. Янков А.В. Англійська мова для студентів-медиків: Підручник. К.: Вища шк., 2004.
- 3. Eric H. Glendinning, Beverly A.S. Holmstrom. English in medicine. Cambridge University Press, 2005.
- 4. Murphy R. Essential Grammar in Use. Cambridge University Press, 1990.

- 5. Русско-украинско-английский медицинский словарь. Харьков: Консум, 1998.
- 6. Oxford Russian Dictionary. Oxford University Press, 2000.
- 7. Анатомічний українсько-латинсько-англійський словник-довідник. Київ.: Довіра, 1997.
- 8. Англо-русский и Русско-английский медицинский словарь / сост. А.Ю. Болотина. М.: Руссо, 2005.
- 9. Англо-русский медицинский словарь / сост. Г.Н. Акжигитов, М.С. Бенюмович. М.: Руссо, 2000.
- 10.Англо-русский медицинский энциклопедический словарь / гл. ред. А.Г.Чучалин; науч. ред. Э.Г. Улумбеков, О.К. Поздеев. М.: ГЭОТАР МЕД., 2003.
- 11. Ілюстрований медичний словник Дорланда. Л.: Наутиліус, 2003.
- 12. Русско-английский медицинский словарь-разговорник / В.И. Петров, В.С, Чупятова, С.И. Корн. М.: Рус. яз., 2002.
- 13. Українсько-латинсько-англійський медичний тлумачний словник / укл. А. Петрух, І. Головко та ін. [за ред. М. Павловського, П. Петрух]. Львів.: Словник, 1995.

### 14. Інформаційні ресурси

www.library.zsmu.edu.ua

## Онлайн курси англійської мови:

http://www.free-english.com

http://www.englishpage.com

http://www.englishspace.ort.org/

http://www.lessons.ru/languages/aspera/about.html

http://www.bellenglish.com

### Аудіо-книги:

http://www.audiobooksforfree.com

#### Библіотеки:

www.ipl.orghttp://digital.library.upenn.edu/books

http://sunsite.berkeley.edu/alex

#### Словники:

www.yourdictionary.com

## Використані ресурси:

http://www.myenglishpages.com/site\_php\_files/grammar.php

http://www.englisch-hilfen.de/en/grammar/adjectives.htm

http://www.edufind.com/english-grammar/definite-article/

https://learnenglish.britishcouncil.org/en/english-grammar/determiners-and-quantifiers/definite-article

https://www.youtube.com/watch?v=uaAwIN1gPm4

http://www.emedicinehealth.com/anatomy\_of\_the\_central\_nervous\_system/article\_em.htm

http://emedicine.medscape.com/article/1948665-overview

https://en.wikipedia.org/wiki/Central\_nervous\_system

http://www.le.ac.uk/pa/teach/va/titlpag1.html

http://www.innerbody.com/image/nervov.html

https://www.youtube.com/watch?v=1WGteI6QYcU