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English for Paediatricians

A manual for the **1-year trainees** in the training programs 31.05.02 *Paediatrics*

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English for Paediatricians.

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The manual *English for Paediatricians* contains sixteen thematic units covering the material of the program for students of medical higher schools of the Russian Federation. The manual is designed for first-year trainees of speciality "Paediatrics". It is also supplied with appendices, vocabulary, test tasks and questions.

Пособие «Английский для педиатров» содержит шестнадцать тематических уроков, охватывающих материал программы для обучающихся медицинских вузов Российской Федерации. Пособие предназначено для обучающихся первого курса по специальности «Педиатрия». Пособие также снабжено приложениями, словарем, вопросами и заданиями на зачет.

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UNIT I. A CAREER IN MEDICINE

In this unit

- talking about pros and cons of a medical profession
- using to be and to have
- · plurals of nouns
- personal pronouns and possessives

Lead-in

- 1. Работа в парах. Задавайте вопросы и отвечайте на них. Вы можете выбрать несколько ответов или свой вариант.
- 1. Why are you learning English?
 - a to know it better
 - b to get a better job
 - c to get to know people from other countries
 - d to understand information in English
- 2. Which two of these things do you think are the most useful for learning a language?
 - a to have a good memory
 - b to have patience
 - c to make an effort
 - d to be interested in
- 3. How do you learn languages best? a taking part in class activities
 - b doing exercises at home
 - c doing games and listening to songs
 - d having regular tests
- 4. What problems do you have speaking in English?
 - a I am sometimes nervous
 - b I make a lot of mistakes
 - c I can't remember the right word
 - d I take a long time to say things



2. Тест. Попробуйте ответить на эти вопросы.

- 1. How many people spoke English in 1000 AD?
- a) 2 million b) 12 million c) 20 million
- 2. How many people speak it now?
- a) 200 million b) 500 million
- c) more than a billion
- 3. What percentage of the world's e-mails are in English?
- a) 50% b) 80% c) 90%
- 4. How many languages are there in the world?
- a) 4,000 b) 6,500 c) 9,000
- 5. What percentage of scientists read in English?
- a) 40 to 50% b) 60 to 70% c) 80 to 90%

3. Просмотрите текст и проверьте ваши ответы.

English in the Third Millennium

Two thousand years ago English did not exist. A thousand years ago it was a language used by less than two million people. Today it is the most influential language in the world spoken by more than a billion people on the planet. They use it as the first, second or third language. In the next decade 2 billion people will learn English and about half the world will speak it.

Today English dominates science, business, the mass media and popular culture. 80% of emails on the Internet are in English, 66% of scientists read in English. But where will English be at the end of the third millennium? One view is that English is going to become even more important as the global language while many other languages will just die out. At present half of the world's 6,500 languages are in danger of extinction. Another view is that English is already breaking up into separate languages, such as Australian English, American English, which differ greatly from standard British English.

Fortunately, neither of these things will happen. Although different variants of English will develop around the world, standard English will survive for international communication. But it won't be the only language. Other languages will also develop as the cultural and linguistic diversity is of great importance.

Reading

To Be or Not to Be a Doctor

Applicants who effectively demonstrate to admissions committees that they have the proper motivation and skill set to be a good doctor are the ones who are accepted. Thus, here is a list of potential reasons to be a doctor. If you can only identify with one or two of these reasons, most likely you do not have the right motivation to become a physician. Helping others in an incredibly significant

way

Most people value their health above everything else in their lives whether they know it or not. When someone is ill or injured, his or her normal way of life is changed and doctors have the incredible opportunity to restore these people's lives to normal and even save some from death itself. Therefore being a doctor is extremely rewarding.

Medicine is fascinating

Becoming a doctor means learning everything there is to know about the human body. Medical students and doctors have the opportunity to examine the human body with the most innovative technology. From the pumping of the heart to drugs that take away pain to machines that allow you look inside a person, modern medicine remains one of the most fascinating subjects in the world.

Trust and honour

Doctors are trusted with sensitive information that most other people would not have access to. Patients share their deepest concerns with their doctors in hopes of being healed. To be trusted so much by anybody is a great honour.

Requires critical thinking and problem solving

Doctors have to use their intelligence and technical skills to treat patients. Many doctors enjoy the challenge of having to diagnose a patient and determine the best way to **treat** them. Surgeons and other procedure-based doctors love to work with their hands to find and fix problems.

However, those who survive medical schools (which are really **tough** and **require** all your abilities to move through) have a new set of problems in the real world. Here are some key challenges for a doctor serving humanity that can make helping patients very difficult.

Stressful and demanding work

A lot is **expected** of doctors. Many doctors are constantly on call. Most doctors work more than 40 hours a week. Their work is stressful because they deal with ill and often frustrated people. They carry a great burden on their shoulders because people lives' are in their hands. Many doctors feel overworked and stressed because of these pressures.

Work not worth the money

Many medical professionals feel like they are not making enough money. Doctors think that they are being underpaid for the amount of work they do especially since the typical physician works longer than the standard 40-workweek.

Excess of administrative work

Most people become doctors to treat patients, not to do paperwork. Yet a third of physicians spend more than 10 hours a week fulfilling those duties.

Difficulty of balancing work and life

Long hours at work means less hours at home with family and friends. Doctors can have very difficult time balancing work and outside life. This struggle plays a factor in the high **divorce** rate among doctors (29%).

Message 2:

Abridged. The full text is available at: www.prospectivedoctor.com/reasons-to-be-a-doctor/ www.prospectivedoctor.com/reasons-to-not-be-a-doctor/

Vocabulary Practice

1. Объясните значение выделенных слов из текста на предыдущей странице.

2. Подберите определения к данным словам:

подосрите опред	деления к данным словам.
1. access	a) something that is difficult
	and that tests someone's
	ability or determination
2. challenge	b) the ability to learn,
	understand, and think
	about things
3. divorce	c) the right or opportunity to
	use or see something
4. intelligence	d) the facts about why
	something happens or why
	someone does something
5. skill	e) the official ending of a
	marriage
6. reason	f) an unpleasant physical
	feeling caused by an illness
	or injury
7. pain	g) the ability to do an
	activity or job well,
	especially because you
	have practiced it

3. Закончите предложения, используя активную лексику урока.

1. Physicians	patients with
drugs and medications,	while surgeons
traumas.	
2. The word "	" has two main
meanings: first, it is any	substance used to treat
a patient, and second, i word "narcotic".	t is a synonym to the
3. Have you ever heard	about emotional
, the a	ability to understand and
listen to yourself and otl	hers?
4. The man opened fire	in an Oklahoma
restaurant and	several people.
5. Nowadays, patients f	eel no
during the operations.	
6. Working-class people	e are
because they can't mak	
they want.	
7. Being a medical profe	essional is really,
but it's also one of the n	nost
careers in the world.	

4а. Найдите в тексте английские эквиваленты

данных слов. Отработай	те их произношение.
демонстрировать	
комиссия	
восстановить,	
реставрировать	
медицинский	
инновационный	
диагностировать	
процедура	
профессиональный	
типичный	
стандартный	
больной, пациент	
определить,	
идентифицировать	
человек, индивидуум	
основанный,	
базирующийся	
решать (проблему),	
фиксировать	
Такия анара назыраютая	

Такие слова называются интернационализмами. Всегда ли можно догадаться о значении этих слов в английском языке?

4b. Приведите ваши собственные примеры интернационализмов.

English word	Russian equivalent

Составьте с Д	вумя из	з них пр	едложения.	
1				
2.				

5. Подберите синонимы к данным словам и выражениям:

1. to treat	a) a patient
2. tough	b) a physician
3. an ill person	c) to solve
4. concerns	d) administrative work
5. to fix	e) normal
6. a doctor	f) to heal
7. paperwork	g) challenging
8. a skill	h) problems
9. typical	i) interesting
10. demanding	j) difficult
11. fascinating	k) an ability

Language Development

1. Просмотрите текст еще раз и ответьте на вопросы:	3. The end of the life of a person or organism:
1. Which applicants are accepted into a medical school?	4.
	\mathbb{M}_{2}
2. Why is being a doctor rewarding?	5.6. a group of people who are related to each
3. What do medical students learn?	other, such as a mother, a father, and their children: 7. the practical, especially industrial, use of scientific discoveries:
4. Why are doctors trusted with sensitive	3. Какие из перечисленных ниже утверждений указывают на преимущества профессии врача? Какие относятся к недостаткам?
information?	Doctors are considered the leaders in health care and have the final say on treatment decisions.
5. What do doctors need to treat their patients?	 Doctors have always felt helpless and frustrated in the face of incurable diseases. Doctors and other healthcare workers now have
6. Why is doctor's work stressful?	to deal with the strains of superbugs that are emerging. 3. Doctors can treat and take care of their parents, children, other relatives and friends.
7. Do doctors get enough money for their work?	4. There are numerous opportunities available for healthcare professionals: clinical research, journalism, consulting, business ventures, and hospital administration.
8. Do doctors have to fill in many papers?	5. Doctors do not have enough time to interview, examine and treat patients.Sometimes it may lead to incorrect diagnosis.6. In a medical profession a simple mistake can
9. Why is it difficult for doctors to balance work and outside life?	cost a life. 7. The medical field is not very influenced by the ups and downs of the economy. Doctors are always needed so you will not have to worry about a job market as much as most other jobs.
2. Найдите в тексте <i>To Be or Not to Be a Doctor</i> слова, соответствующие данным определениям:	4. Проект. Prepare a short speech or essay on why you have decided to enter Medical Academy. Montion both advantages and disadvantages of
Wish to do something; enthusiasm:	Mention both advantages and disadvantages of your future profession.

2. The state of being free from illness or injury:

3. The end of the life of a person or organism:

Grammar in Use

Множественное число существительных

	Singular	Plural
A.	a surgeon	surgeon s
	a d ay	days (compare
		with C .)
B.	a campus	campus es
	a class	class es
	a lash	lash es
	a match	match es
C.	a difficulty	difficult ies
	Ехсер	tions
D.	a person	people
	a child	children
	a man	men
	a woman	women
	a tooth	teeth
	a foot	feet

1. Образуйте множественное число существительных

существительных.	
Singular	Plural
an address	
a minibus	
a physician	
a schoolchild	
a university	
a businessman	
a sportswoman	
a way	
a person	
a church	

2. Перепишите предложения во множественном числе, внеся необходимые изменения.

E.g. He is a student. – They are students.

- 1. She is a businesswoman.
- 2. Our university is rather big.
- 3. A student was at the campus.
- 4. He is a good person.
- 5. I am a future surgeon.

Личные местоимения и притяжательные прилагательные

Subject	Object	Possessive Adjective	Possessive Pronouns
	me	my	mine
He	him	his	his
She	her	her	hers
It	it	its	its
We	us	our	ours
You	you	your	yours
They	them	their	theirs

5. Вставьте правильное местоимение или притяжательное прилагательное.

- 1. James has two friends. ... goes to the library with ... every Monday.
- 2. That's my Latin workbook. Can I have ... back, please?
- 3. Our new professor is Mr Lagunov. ... like ... and ... lectures a lot.
- 4. This book isn't My book has a different cover.
- 5. Who are those people? Do you know ... names?
- 6. Rose and I are good students. ... like our teacher Ms Smith and ... likes
- 7. My father met Jim 30 years ago. He is an old friend of
- 8. Jane and Jack live not far from the University. ... takes ... 5 minutes to get there.

Глагол to have

	Present Simple (Positive)						
I/We	/ You	have					
/ They			a workbook.				
He / S	he / It	has	1				
Present Simple (Negative)							
I/We	/ You	don't					
/ They			have a workbook.				
He / S	he / It	doesn't					
Present Simple (Questions)							
Do	I / we	/ you /					
	they	-	have	a workbook?			
Does	he /sh	e /it					

Have got

			-	900						
	Positive									
I/We	/ You	have								
/ They			g	got		jot a v		workbook.		
He/S	he / It	has								
		Ne	ga	tive						
I/We	/ You	haven ³	't	got		got				
/ They								a workbook.		
He/S	he / It	hasn't								
	Questions									
Have	I / we	/ you /								
	they			got		a workbook?				
Has	he / sl	he / it								

6.	Употребите	соответствующие	формы	have
ил	и <i>do</i> в данны	х предложениях.		

1. What	probl	ems		you	have	spea	aking
English?							
Every c	lay I _		two o	or thre	e lectu	res.	
3		got	any	frienc	ls fror	n fo	reign
countries?	?						
4. She _		not	hav	e any	probl	ems	with

anatom	y.
5	he got any books on chemistry?

6. My friend _____ got three brothers.

Глагол to be Positive/negative

Present Simple						
1	am					
He / She / It	is	is (not))	from Russia.	
We / You /	are					
They						
Past Simple						
I / He / She / It	was					at hospital
We / You /	were	no) و		ot))	esterday.
They						
Future Simple						
I / He / She / It	will	I		b	е	in London
We / You /	(wor	(won't)				tomorrow.
They						

8. Закончите предложения, употребив глагол *to be* в соответствующей форме.

- 1. ... you Nick Ivanov?
- 2. Where ... your brother yesterday?
- 3. All students at university at 8 a.m. tomorrow.
- 4. I ... not a doctor yet.
- 5. My dream ... to become a paediatrician.
- 6. Kizito ... from Nigeria.
- 7. These boys ... my friends.
- 8. ... you at Anatomy classes last week?
- 9. ... she ... a family doctor or a surgeon?
- 10. I ... at a hostel yesterday.
- 11. Latin ... my favourite subject.
- 12. We ... not graduates.
- 13. 80 % of e-mails on the Internet ... English.

Глагол *to be* Questions

Present Simple							
	am		1				
Where	is		he / she /	he / she / it			
	are)	we / you /	they			
Past Simple							
Where	wa	S	I / he / she / it			t hospital	
were			we / you / they			esterday?	
		F	uture Sim	ple			
When	will	1/	he /she /	be	ir	London?	
		it					
		we	e / you				
			ey				

9. Какие предложения верны? Где допущены ошибки? Исправьте неверные утверждения.

E.g. My friend's name is Peter. -

No, it isn't. My friend's name is Jim.

- 1. My grandmother is 75 years old now.
- 2. We are in the classroom now.
- 3. My mother is from Russia.
- 4. My parents were students 10 years ago.
- 5. Doctor's job is very easy.
- 6. I'll be in Yalta next Sunday.
- 7. Our campus is rather far from the University.
- 8. My mother was 20 when she started working.
- 9. Our group will be at the conference next month.
- 10. All students of our group are from Russia

10. Употребите глагол *to be* в соответствующей форме. Ответьте на вопросы.

Question	Me	Partner	Teacher
1. What your name?			
2. How old you?			
3. Where you from?			
4. Where your parents from?			
5 you the only child in the family?			
6. When you born?			
7. When your birthday?			
8. What your favourite subject?			
9. Where you yesterday?			
10. Where you tonight?			
11. What you going to be after graduation?			
12 you happy that you a student of MA?			

принимает участие студент-иностранец. Заполните пробелы словами <i>are, is, am, have</i> .
Определите, где происходят эти беседы. □ The Anatomy department □ The Internet café □ The canteen
 I. A Hello. Can I help you? S Yes. Can I a piece of cake, please? A Anything to drink? S Yeah. A cup of coffee, please. A OK. Here you S How much that? A 75 roubles, please. S Thanks.
II. S Hello! How much does it cost to use a computer for half an hour? B you an MA student? S Yes, I I a first-year student of the International Faculty. B Then it free for you. You may use any computer. S you got headphones that I can use? B Sorry. We no headphones. S That's OK. Thanks.
III. C Hello. Can I help you? S Yes. I need a clavicle, please. C Oh, I sorry, we got no clavicles left. It seems all the first-year students here tonight. S Oh, it a pity. May I a scapula then? C Yes. What your name, please? S I Gregory House. C Which group you from? S 135a. C That all. Here the scapula. Return it by 8 p.m. And do not take it home, please. S Of course I won't. Thanks a lot.

Воспроизведите диалоги со своим партнером.

11. Прочитайте три диалога, в которых

Checklist

Оцените, чему вы научились в этом уроке. Отметьте (✓) утверждения, которые справедливы для вас.

- I can talk about myself and my studies at a higher medical school
- I know the spelling and reading rules and can apply them
- I can use to be and to have
- I can form the plurals of nouns
- I know the personal pronouns and possessives and can use them

Key Words

access n /ak `ses/ applicant n / aplikant/ challenge v / tʃalındʒ/ deal with v / di:1/ divorce n /dr`vo:s/ drug *n* /drʌq/ expect v /iks`pekt/ frustrated adj /`fra`streitid/ heal v /hi:1/ injure v /`indʒə/ intelligence n /in`telidʒəns/ opportunity n /spə`tju:nɪtɪ / pain n /pein/ physician n /fi`zı[ən/ reason n / ri:zən/ require v/ri`kwaiə/ rewarding adj /ri`wo:diŋ/ skill n /skil/ surgeon n /`s3:dʒən/ tough adj /tnf/ treat v /tri:t/

Просмотрите еще раз материал урока. Запишите другие слова и выражения, которые могут оказаться для вас полезными, и выучите их.

UNIT II. MEDICAL SCHOOLS

In this unit

- talking about higher medical school in which I study
- using Present Simple and Present Continuous
- degrees of comparison
- dates



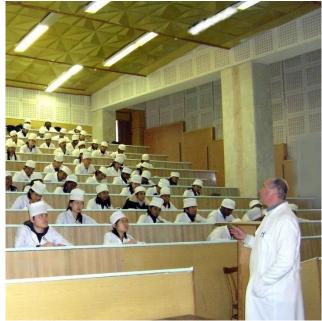
Lead-in

1. Вы узнаете это здание? Да, это ваша *Alma Mater*. Что вам известно о Медицинской Академии имени С.И. Георгиевского?

Highlights in the History of MA

- April, 1931. The Crimean Medical Institute is founded with the only faculty medical.
- September, 1936. The paediatrics faculty is organized.
- September 1941 August 1945. The years of evacuation during the Great Patriotic War. In this period 850 doctors graduate from the Institute – most of them go directly to the front.
- Year 1951. Associate professor Sergey Ivanovich Georgievsky becomes the Director, lately Rector of the Institute.
- Year 1961. The institute starts training doctors for the countries of Asia, Africa and Latin America.
- **Year 1978.** The faculty of dentistry is founded, new departments appear.
- Year 1981. The Institute is awarded a high state award of the USSR – Order of the Red Banner of Labour for training highly qualified specialists for public health.
- December, 1995. The institute is named after S. I. Georgievsky for his great contribution to the development of the Institute and the medical science as a whole.

- January, 1998. By the decree of Cabinet of Ministers of Ukraine the Crimean State Medical Institute named after S.I. Georgievsky gets the status of the university (CSMU).
- Year 2008. MA is the only higher medical school in Ukraine certified by the International Educational Society (London). According to it MA is awarded the category AA denoting "top institution that is internationally known and recognized".
- Year 2014. After the Crimea had become a part of the Russian Federation, MA joined Vernadsky Crimean Federal University as Medical Academy named after S.I. Georgievsky.
- 2. Прочитайте текст о медицинской академии. Выберите из списка утверждений А-G те, что лучше всего отражают содержание каждой части (1-6) текста. Здесь есть одно лишнее утверждение, которое вам не понадобится. В начале текста приведен пример (0).
 - **A.** Academy departments
 - B. Life of foreign students
 - C. Entering a medical academy
 - **D.** Postgraduate training
 - E. Students' leisure activities
 - **F.** Faculties of MA
 - **G.** The curriculum for medical students



Reading

Medical Academy

0. C

If you want to become a doctor, after finishing school you enter a medical university. If you want to become a really good doctor and spend your students' years in the picturesque Crimea, you should enter Medical Academy named after S. I. Georgievsky (a part of Vernadsky Crimean Federal University) which is situated in the very centre of Simferopol. But first you should pass universal state exam successfully. Those entrants who achieve very good results will get the chance to study for free. Others will have to pay tuition fees.

1.

The word 'doctor' is very general, but whether you want to become a **psychiatrist** or a **neurologist**, you start with **choosing** one of the **faculties**. At MA there are five faculties. If your dream is to work as a physician, a paediatrician, a surgeon or a family doctor, you choose the First or the Second Medical Faculty. It takes 6 years to **complete** the course. Future dentists study at the Faculty of Dentistry. They spend here 5 years. For those who are not **citizens** of Russia, there is the International Medical Faculty. **Postgraduates attend** the Faculty of Postgraduate Training.

2.

Each faculty has a number of subdivisions called **departments**. In fact, there are 56 different departments at MA where 106 **professors** and 524 **associate professors** work. Some of the departments **are situated** at hospitals and clinics rather far from the Academy. It takes students half an hour or even more to get to some of them by minibus.

3.

The course of studies at the medical academy is roughly divided into two parts. During the first three years students take basic medical subjects, such as anatomy, physiology, histology, biology, as well as general subjects. These include philosophy, psychology, history of Russia, Latin and foreign languages. Beginning with the fourth year, the curriculum includes clinical and special subjects, such as therapy, surgery, paediatrics, neurology, obstetrics and gynaecology, psychiatry, etc. Each academic year has two terms. Each term ends with a set of tests and exams which students should pass to be allowed to continue studies.



4.

The number of subjects taken at the university is huge, but it is not enough to become a doctor yet. All graduates continue their studies at the Faculty of Postgraduate Training. Depending on the specialty they choose (and the list includes 31 specialties) they attend residency for 1 or 2 years. Only after that they **are allowed to** work as doctors. But still, every five years they should take **refresher courses** at higher medical schools or at large hospitals. Those who dream of scientific **career** continue training at postgraduate courses to become candidates and, with time, doctors of science.

5.

Though students spend a lot of time **memorising** and **revising** (particularly during the first one or two years), they also socialise a lot, go in for sports and take part in festive events. Our academy is proud of its facilities. The students surf the Internet in 25 computer labs or read monographs and articles in different languages in the reading halls of the library. They come to the sports facilities to go running or swimming, to play volleyball, basketball or badminton, or to take wushu or kudo classes. If you feel you have a real talent you are welcome to participate in Miss MA or Mister MA shows, concerts on the Days of Faculties, and, of course, the Graduation Ball. And then, after graduation, you will boast not only vast store of knowledge and practical skills, but also good memories about wonderful students' years.

Vocabulary Practice

- 1. Объясните значение выделенных слов из текста на предыдущей странице.
- 2. Закончите предложения, используя слова из таблицы, синонимы к которым даны в скобках.

complete	internship	memorise
refresher	curriculum	choose
courses	is situated	revise

- 1. It is not an easy thing to
 - a career out of more than
- 7,000 professions existing in the world. (**select**)
- 2. The _____ of MA includes about 70 subjects. (the list of all subjects studied at
- 70 subjects. (the list of all subjects studied at the University)
- 3. When the students

	_ the University
course they attend the	

(finish; a period of training

to get qualification of a medical practitioner)

4. Before module testing the students usually their lecture notes thoroughly.

(reread notes to improve their knowledge)

- 5. The library of our University _____ or the first and second floors and the reading room is on the second floor (is located).
- 6. To know Anatomy well, the students have to a lot of medical
- terms. (learn by heart)
- 7. When doctors take ______, they learn new ideas, methods and innovations in medicine. (a short course to improve
- professional skills)
 8. The medical students are not ______ to be late for classes and to be present at classes without uniform. (permitted)
- 3. Составьте словосочетания, используя слова из списка. Каждое слово можно использовать

только один раз.

wonderful	sports		external
refresher	foreign	ı	scientific
postgraduate	practic	al	clinical
festive	compu	ter	tuition
1 care	er	7	fee
2 testin	ng	8	facilities
3 skills		9	events
4 cours	ses	10	lab
5 subje	ects	11	language
6 traini	ng	12	years

Составьте предложения с несколькими
словосочетаниями:

4. Закончите предложения, используя однокоренные слова, образовав их с помощью суффиксов -ian, -ist, -eon от слов из правого столбика.

1. He always wanted to	NEUROLOGY
be a	
2. She is studying to	CHEMISTRY
become a	
3. The profession of a	PSYCHOLOGY
is very	
difficult but interesting.	
4. Why does he want to	SURGERY
be a?	
5. I know this	PAEDIATRICS
She works at children's	
centre.	
6. He is going to be a	GYNAECOLOGY
	
7. My mother works as a	PSYCHIATRY
0.1.11.11.11.11.1.1.1.1.1.1.1.1.1.1.1.1	ODOTETDIOO
8. Is it difficult to become	OBSTETRICS
an ?	
an?	

5. Закончите предложения, используя подходящие по смыслу числительные.

- 1. There are _____departments at MA.
- 2. The academic staff of MA includes _____ professors and associate professors
- professors and _____ associate professors.

 3. The students study ____ years at the First and Second medical faculties.
- 4. The course of studies at the faculty of Dentistry lasts years.
- 5. The graduates study at the internship for ____ vears.
- 6. The list of medical specialities at the faculty of Postgraduate training includes _____ specialities.
- 7. The tuition fee at our Academy is _____
- 8. There are ____ computer labs at MA.
- 6. Найдите определения для данных слов и словосочетаний.

словосочетании.	
1. internship	a) testing school leavers to
	use test results for
	admissions to higher schools
2. associate	b) a short course to review
professor	knowledge and skills in
	one's profession
3. refresher	c) a job or jobs that you do
courses	during your working life
4. universal	d) a period of training for
state exams	postgraduates to get
	qualification of a medical
	practitioner
5. postgraduate	e) a senior lecturer holding
training	the rank below professor
6. a career	f) training to be specialists
	or get postgraduate degree
	qualification (MD).

Language Development

1 Просмотрите текст еще раз и ответьте на

вопросы:
What do you need to enter a higher medical school?
2. Is MA an old Academy? How old is it?
3. How many faculties does the Academy have?
4. What faculty do you study at?
5. Who is the Dean of your faculty?
6. Must you pay for studies?
7. What specialists does the Academy train?
8. How long does the course last?
9. What subjects do the students study during the first three years?
10. What special subjects does the curriculum include?
11. How many terms does the academic year have? How long does each term last?
12. What do the students have at the end of each term?
13. Do the students have any time for fun activities? How do they spend it?

- 14. How can graduates get a qualification of a medical practitioner?15. How often do the doctors take refresher courses?
 - 2. Темы для обсуждения
 - а. Используя утверждения, приведенные перед текстом в качестве плана, перескажите текст.
 - b. Расскажите об основных этапах медицинского образования в России.
 - с. Используя подсказки, расскажите об основных проблемах, с которыми сталкиваются студенты-медики и врачи.
 - to take a lot of years to get a profession
 - to work hard
 - to memorise a lot of medical terms
 - to have lectures and practical classes from morning till night
 - to spend long hours in the library and the dissecting room
 - to have practically no time for fun activities
 - to take refresher courses every 5 years
 - to be ready at any time to come to the patient and save his/her life
 - to learn all life
 - e.g. It takes 5 or 6 years to graduate from the medical Academy, and 2 or 3 years to complete the internship.
- d. Ниже приведен список личных качеств человека. По вашему мнению, какими из них должен обладать хороший студент?

lazy/hardworking sociable/shy well organized/disorganized friendly/aggressive ambitious/inactive talented/ordinary interested/bored cheerful/depressed funny/serious

e.g. I strongly believe that a good student should be hardworking, first of all.

3. Проект.

Think about your groupmate (yourself?) who is a perfect medical student. Prepare a short speech or essay on which features help him/her/you to overcome challenges of becoming a medical professional.

Grammar in Use

Present Simple

1 reseme emple						
Positive						
I/We/	You /	study				
They			medicine.			
He / Sh	ne / It	studies				
Negative						
I/We/	You /	don't	on't			
They			study		medicine.	
He / Sh	ne / It	doesn't]			
		Quest	ion	S		
	do	I / we / yo	ou			
(Why)		/ they	study		•	medicine?
	doe	he / she /	/ it			
	s					

Сигнальные слова: always (всегда), often (часто), regularly (регулярно), every day (каждый день), on Mondays (по ПН), usually (обычно), in general (в общем), sometimes (иногда), seldom (редко), never (никогда) Present Simple используется для того, чтобы обозначить:

- 1 Факты: A molecule consists of atoms.
- 2 Привычные действия: *I take* wushu classes on Tuesday and Friday.
- 3 Указание на будущее (для расписаний): *The* exam starts at 8 a.m. next Wednesday.

Present Continuous

	Positive/Negative						
1			am				
He / She / It		is	(not)	S	swimming		
We / You / They		are		r	IOW.		
		(Questi	ons			
	am	I					
	is	he	/ she	/ it		swimming	
(Where)						now?	
(11110.0)	are	we	/ you	/ they			

Сигнальные слова: now (сейчас), still (всё ещё), at present (в настоящее время), at the moment (в данный момент), while (пока) Present Continuous используется для того, чтобы обозначить:

- 1 Действия, которые происходят (длятся) в момент речи: She's surfing the Internet now. 2 Временные действия/ситуации: My friends
- are studying Dentistry at MA.
- 3 Запланированные действия в будущем (с обязательным употреблением слов tomorrow, next year/month, etc.): We're spending next holiday in England.

Статические глаголы (Stative verbs) обычно не употребляются во временах Continuous:

ne yne peesisiie test be beeinenax certiinacae:					
want	hate	need	remember		
like	think	forget	understand		
love	see	know	believe		

e.g. I think you are right. I hate being late.

- 1. Закончите предложения, употребив глагол в соответствующей форме *Present Simple* или *Present Continuous*.
- 1. Jane ... (to want) to become a neurologist.
- 2. 'Where's Boris?' 'He (to play) badminton in the sports facilities.'
- 3. How long ... it ... (to take) you to revise for the test in chemistry?
- 4. We ... (to memorise) from 50 to 200 new anatomical terms every week.
- 5. Usually I ... (not to work) at the library. I ... (to like) surfing the Internet.
- 6. In June all of us are very busy. We (to take) universal state exam.
- 7. Shhhh... I (to talk) to the Rector!
- 8. The first-year curriculum ... (not to include) Russian literature or geography.
- 9. What departments ... the fourth-year students ... (to attend)?

2.	Зада	йте	вопросы,	чтобы	получить	недоста-
ю	щую	инф	рормацию	. Затем	ответьте	на них.

ющую информацию. Зат	ем ответьте на них.
e.g. I am going to	tonight. Where
are you going tonight? -	To the cinema.
1. Our classes usually sta	
What time	^
2. He memorisest	erms for 10 minutes.
How many terms	
	?
3. It takes ye	ears to complete the
course at the medical univ	versity.
How long	
<u> </u>	?
4. She can't come. She's	cutting a cadaver at
Where	·
5. The students are discu	
the associate professor.	
What	?
6. We start communicating	g with patients .
When	•
7. They work in small group	ups with .
Who	•

Сравнительная и превосходная степень прилагательных и наречий

	comparative	superlative
fast	fast er	fast est
earl y	earl ier	earl iest
competitiv	more	most
е	competitive	competitive
good	better	best
bad	worse	worst
far	farther/further	farthest/furthest
little few	less	least
much many	more	most

3. Образуйте сравнительную и превосходную степень прилагательных.

	e.g. strong - strong	ger - strongest	
tough			
interes	ting		
easy_			
serious			
high			
useful			

4. В каждом предложении употребите одно из прилагательных из таблицы в сравнительной или превосходной степени.

, ,	,	tar, experienced	J,
mode	ern, succe	essful, hard	
1. English is the			
anguage in the	world.		
2. Now I live		from the Ac	ademy
than earlier.			
3. The	world's s	student is 86 yea	ars old.
4. The laboratory	is	to	o the
hostel than the li	brary.		
5. This professor	is		than
the assistant.			
6. Our laboratory	\prime is the $_$		at
the Academy.			
7. This year is th	e	in	my life.
8. If you want to	succeed	you should work	

Pattern	e.g.	Pronunciation		
XX00	5 00	five hundred		
	2000	two thousand		
	(exception)			
XX 0 X	17 0 4	seventeen oh four		
	19 0 6	nineteen oh six		
	2008	two thousand and		
	(exception)	eight		
XXXX	1780	seventeen eighty		
	1998	nineteen ninety eight		

Как произносить годы

5. Соотнесите события и годы. Обратите внимание на произнесение голов.

twenty twenty five

2025

БПИМАПИ	е на произнесение годов.
1931	a CSMU became a part of Crimean
	Federal University (as MA)
1978	b my entrance into MA
2014	c receiving of Order of the Red
	Banner of Labour
1936	d organisation of the first medical
	faculty of CSMU
1961	e organisation of the paediatrics
	faculty of CSMU
201X	f foundation of the faculty of
	dentistry of CSMU
1945	g coming of first foreign students to
	CSMU
1981	h return of CSMU from evacuation

Checklist

Оцените, чему вы научились в этом уроке. Отметьте (✓) утверждения, которые справедливы для вас.

- I can talk about MA, a higher medical school where I study
- I can talk about students' studies and how they spend their free time
- I can describe what is happening at the moment
- I know how to make sentences in English
- I can put general and special questions
- I know how to pronounce dates

Key Words

achieve v/ə`tſi:v/ achievement *n* /ə`tʃi:vmənt/ associate professor /a`sausiat pra`fesa/ attend v /a`tend/ be allowed /a`laud/ to do smth be situated /`sitjueitid/ career n /kə`rɪə/ choose v /tfu:z/ citizen n / sıtızən/ complete v /kəm`pli:t/ curriculum *n* /kə`rɪkjuləm/ department n /di pa:tment/ entrant n / entrant/ faculty n / fækəltı/ Faculty of Postgraduate Training festive event /`festiv i`vent/ for free gynaecology n /gamə`kolədʒı/ histology n /his`toladʒi/ include v/in`klu:d/ internship *n* / inta:nʃɪp/ memorise v / meməraiz/ neurologist *n* /njuə`rɒləʤɪst/ obstetrics n /pb`stetriks/ philosophy *n* /fr`losəfı/ postgraduate n /paust`græðguat / practical skills professor n /prə`fesə/ psychiatrist *n* /sai`kaiətrist/ psychiatry n /sai`kaiətri/ psychology n /sai`kpladzi/ refresher courses /ri`fre(a `ko:siz/ revise v/ri`vaiz/ tuition fee /tju: \[[ən \] fi:/ universal state exam /juni`və:səl steit ig`zæm/

Просмотрите еще раз материал урока. Запишите другие слова и выражения, которые могут оказаться для вас полезными, и выучите их.

UNIT III. MEDICAL SPECIALTIES

In this unit

- talking about medical specialties
- describing specific jobs of different specialists
- using Future Simple/going to and Future Continuous
- speaking about new medical jobs



Lead-in

1. Посмотрите на рисунок, ответьте на вопросы.

- What specialists do you see in the pictures? What are they doing?
- What uniform are the physicians wearing?
- Do you always wear a white gown and a cap during classes?
- What other medical specialties can you name?
- What is your future specialty? Have you made up your mind yet?
- Is it difficult to choose specialty? What or who helps you make a decision?

2. Подходит ли вам профессия врача?

- Do you care about other people, their problems, and their pain?
- Do you enjoy helping people with your knowledge and your skills?
- Do you enjoy learning, gaining new knowledge (understanding)?
- Do you try to learn more about a subject than your teacher requires?
- Is the process of learning more important for you than just getting a good mark?
- Are you interested in functioning of the human body?
- Do you want to learn how medicine can improve life?

If you answered "yes" to most of these questions, then you have the right kind of personality for a medical career.

3. Знаете ли вы, что

- there are thousands of different types of medical jobs nowadays
- healthcare is the largest industry; it employs 14 million people and it will include 3 million medical jobs more by 2016
- the highest-paid medical job abroad is anesthesiology with the annual income of \$190,000
- the most well-paid medical specialty in our country is neuro- and cardiosurgery
- the top 5 most popular medical specialties nowadays are plastic surgery and cosmetology, urology, gynaecology, stomatology and surgery.
- 4. Ниже приведены пять утверждений о медицинских специальностях. К какой специальности относится каждое утверждение? Прочитайте текст и дополните его этими предложениями.
- **1**. They are trained in the diagnosis and treatment of **cancer**, infections, and diseases of internal organs.
- 2. They use their clinical experience together with their practical knowledge to **ensure** the safe **supply** and use of medicines by patients.
- **3**. Most doctors of this specialty work in private practices but some work in dental hospitals.
- **4**. They also ease the day-to-day difficulties of children and adolescents with chronic conditions.
- **5**. They may use specialised instruments during operative procedures.



Reading

Choosing Your Medical Speciality

Those graduates who want to become specialists must attend residency in a particular medical specialty, and many practising physicians go on to specialise in a particular area of medicine.

Internal medicine

common	e and the hospita and complex illr nd the elderly . [ness of adolescents ,	
		·	

They also get an idea about an understanding of disease prevention, wellness, **substance abuse**, mental health, and effective treatment of common problems of the eyes, ears, skin, nervous system, and reproductive organs.

Paediatrics

Paediatricians both help healthy children to develop properly and treat those who are seriously or chronically ill. They easily understand emotions of their little patients and can be advocates for children and adolescents in difficult situations. In caring for children's physical health, paediatricians diagnose and treat infections, injuries, **genetic defects**, **tumours**, and many types of organic disease and dysfunction. They work to **reduce infant** and child mortality, control infectious disease, and foster healthy lifestyles. [B]

Surgery

A surgeon **manages** a wide variety of surgical conditions affecting different parts of the body.

The surgeon makes the diagnosis and provides the preoperative, operative, and postoperative care to surgical patients and is usually responsible for the comprehensive **management** of the patients with trauma and the critically ill surgical patient. The surgeon uses diagnostic techniques, including endoscopy, for observing internal structures. **[C]**

Dentistry

Dentistry is a branch of medicine that deals with the study, diagnosis, prevention, and treatment of diseases that **affect** the teeth and gums. The most common oral diseases are dental caries (tooth decay) and periodontal disease (gum disease). Common treatments **involve** the restoration of teeth, **extraction** or surgical **removal** of teeth, scaling and root canal treatment. Dental treatment is carried out by the dental team, which often consists of a dentist, dental assistants, dental hygienists, dental technicians, and dental therapists. **[D]**

Pharmacy

Pharmacists and chemists play a key role in providing quality healthcare to patients. **[E]**

Pharmacists and chemists also offer advice on common problems such as **coughs**, **colds**, **aches** and **pains**, as well as healthy eating and stopping smoking. They can also help you decide whether you need to see a doctor. You can talk to your pharmacist in **confidence**, even about the most personal **symptoms** and you don't need to **make an appointment.**

Vocabulary Practice

- 1. Объясните значение выделенных слов из текста на предыдущей странице.
- 2. Словообразование.
- а. Образуйте слова, обозначающие специалистов, от названий специальностей.

специалистов, о		·
specialtiy	specialists	rule
neur ology	neurolog ist	
cardiology		-ology → ist
geriatr ics	geriatric ian	-ics → an
optics		
traumatology		Exception:
obstetrics		anaesthetics →
pediatrics		anaesthetist
rheumotology		
gynaecology		
pathology		
technics		

b. Дополните таблицу недостающими словами.

Verb	Noun (person)	Noun (activity or thing)
specialize		
practise		
consult		
assist		
graduate		
qualify		

3. Заполните таблицу словами и словосочетаниями из текста.

Medical specialties	
Organs and systems of the humn body	

Health cor			
(diseases)			
Madiaalaa			
Medical pr	oceaures	•	
<u> </u>			
5 Daysayyyy			
			спользуя слова из ім даны в скобка:
elderly		rention	particular
adolescen		tality	care
entire	redu	ıce	diagnosis
1. An emerg	ency phys	ician pro	ovides
	n) and	(tı	reatment) of the
2. All physici			esidency in a
2. All physici	(defir	nite) me	dical specialty.
2. All physici 3. Pediatricia	(defir ans work to	nite) me o	dical specialty. (make
2. All physici 3. Pediatricia less) infant a	(defir ans work to	nite) me o	dical specialty. (make
2. All physici 3. Pediatricia less) infant a deaths).	(defir ans work to and child _	nite) me 0	dical specialty. (make (number of
2. All physici 3. Pediatricia less) infant a deaths). 4. Special er	(defir ans work to and child _ mphasis is	nite) me	dical specialty(make (number of on
2. All physici 3. Pediatricia less) infant a deaths). 4. Special er (prophylact	(defir ans work to and child _ mphasis is ic measur	nite) me o s placed res) and	dical specialty(make (number of on I the primary care
2. All physici 3. Pediatricia less) infant a deaths). 4. Special er (prophylact	(defir ans work to and child _ mphasis is ic measur (v	nite) me o s placed res) and vhole) fa	dical specialty(make(number of on I the primary care amilies.
2. All physici 3. Pediatricia less) infant a deaths). 4. Special er (prophylact	(defir ans work to and child _ mphasis is ic measur (v	nite) me o s placed res) and vhole) fa	dical specialty(make(number of on I the primary care amilies.
2. All physici 3. Pediatricia (less) infant a deaths). 4. Special er (prophylact of 5. A general	(defirence of the control of th	s placed res) and whole) fa provide	dical specialty(make (number of on I the primary care amilies. s care of
2. All physici 3. Pediatricia less) infant a deaths). 4. Special er (prophylact of 5. A general	(defirence of the control of th	s placed res) and whole) fa provide	dical specialty(make(number of on I the primary care amilies.
2. All physici 3. Pediatricia less) infant a deaths). 4. Special er (prophylact of 5. A general (teenagers)	(defirence of the control of th	placed res) and whole) for provide	dical specialty(make(number of on I the primary care amilies. s care of(old people)
2. All physici 3. Pediatricia less) infant a deaths). 4. Special er (prophylact of	(defirence of the content of t	nite) me o s placed res) and vhole) fa provide id етания,	dical specialty(make(number of on I the primary care amilies. s care of(old people) употребляя слов
2. All physici 3. Pediatricia (less) infant a deaths). 4. Special er (prophylact of 5. A general (teenagers) 6. Составьте из таблицы.	(defirence of the content of t	nite) me o s placed res) and vhole) fa provide id етания,	dical specialty(make(number of on I the primary care amilies. s care of(old people)
2. All physici 3. Pediatricia less) infant a deaths). 4. Special er (prophylact of 5. A general (teenagers) 6. Составьте из таблицы. один раз.	(defirence of the content of t	nite) me o s placed res) and vhole) fa provide id етания,	dical specialty(make(number of on I the primary care amilies. s care of (old people) употребляя слова
2. All physici 3. Pediatricia less) infant a deaths). 4. Special er (prophylact of 5. A general (teenagers) 6. Составьте из таблицы. один раз. асите	(defirence of the control of t	nite) me o s placed res) and vhole) fa provide ad етания,	dical specialty(make(number of on I the primary care amilies. s care of(old people) употребляя словаждое слово только
2. All physici 3. Pediatricia less) infant a deaths). 4. Special er (prophylact of 5. A general (teenagers) 6. Составьте из таблицы. один раз. acute internal	(defirence of the control of t	nite) me o s placed res) and vhole) fa provide ad eтания, rйте каж	dical specialty(make(number of on I the primary care amilies. s care of(old people) употребляя слова слово только life
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2. All physicians of the second structure of the seco	(defirence and child _ and assure (v physician , adults and adults and	nite) me o	dical specialty. (make(number of on
2. All physici 3. Pediatricia (ess) infant a deaths). 4. Special er (prophylact of 5. A general (teenagers) 6. Составьте из таблицы. один раз. acute internal primary entire 1	(defirence of the communication of the commun	nite) me o s placed res) and whole) fa provide ad eтания, rйте каж al tive non aductive 7	dical specialty. (make(number of on
2. All physicians of the phys	(defirence of the content of t	nite) me o s placed res) and vhole) fa provide ad eтания, r itre каж al tive non ductive 7 8	dical specialty. (make(number of on
2. All physicians of the phys	(defirence and child _ and (v and child and and and and and and and and and an	nite) me o s placed res) and vhole) fa provide ad eтания, r vite каж al tive non aductive 7 8 9	dical specialty. (make(number of on
2. All physicials. Pediatricials. P	(defirence and child _ (v physician , adults and adults adults and adults and adults and adults adults and adults and adults adults and adults adults and adults and adults adults adults and adults adults and adults adul	nite) me o	dical specialty. (make(number of on
2. All physicials and physicials are selected as a select	(defirence work to and child _ mphasis is ic measure (v physician , adults and ecoosy ucnoльзу mental effect comm reprodusease defect cycle organ	nite) me o	dical specialty. (make(number of on
3. Pediatricialess) infant adeaths). 4. Special er (prophylact of	(defirence work to and child _ mphasis is ic measure (v physician , adults and ecoosy ucnoльзу mental effect comm reprodusease defect cycle organ	nite) me o	dical specialty. (make(number of on
2. All physicians of the prophylact of the prop	(defirence work to and child _ mphasis is ic measure (v physician , adults and ecoosy ucnonsay mentale effect	nite) me o s placed res) and whole) fa provide ad eтания, ritre каж al tive non ductive 7 9 10 11 12	dical specialty. (make(number of on

Language Development

- 1. Соотнесите названия специалистов и описание их работы. Запишите ответы в таблицу. Первое предложение выполнено для вас в качестве примера.
- 1. They treat diseases and other conditions that affect the teeth and gums.
- 2. They establish diagnosis and provide operative care.
- 3. They operate equipment in the X-ray department.
- 4. They operate on patients to repair skin damage or improve a patient's appearance.
- 5. These doctor's specialty is children.
- 6. They deal with the total health care of the individual and the family.
- 7. They specialize in the prevention and treatment of mental and emotional disorders.
- 8. They take care of women's health.
- 9. They are responsible for preparing and dispensing medicines.
- 10. They give massage and exercise to restore the specific body functions.
 - a. pharmacists
 - b. pediatricians
 - c. physiotherapists
 - d. radiographers
 - e. gynecologists
 - f. psychiatrists
 - g. family physicians
 - h. dentists
 - i. surgeons
 - j. plastic surgeons

1	2	3	4	5	6	7	8	9	10
h									

2. Сначала самостоятельно ответьте на данные вопросы. Затем сравните ваши ответы с ответами одногруппников. Аргументирйте свою точку зрения.

Which hospital job...

is the most highly respected?
is physically the hardest?
is the most rewarding?
would you least like to do?
is mentally the hardest?
is the most interesting?
should be better paid?
is the most dangerous?
would you like to do one day?

5. просмотрите текст еще раз и ответьте на вопросы:
1. How many medical specialties are there? What medical specialties do you know?
What does a graduate need to do to become a specialist in a particular medical field?
3. What kind of treatment does a general physician provide?
4. Where does a general physician consult patients?
5. What do paediatricians specialize in?
6. What diseases does paediatrician work with? What is the aim of their work?
7. What kind of specialist is a surgeon?
8. What is surgeon responsible for?
9. What does dentistry deal with? What dental specialties are there?
10. What procedures do dentists provide?
11. What is the main responsibility of pharmacists and chemists?
12. What other health services are available at pharmacies?
4. Проект.
Lots of medical specialties have emerged recently. Prepare a short speech or essay on the

Lots of medical specialties have emerged recently. Prepare a short speech or essay on the most impressive medical job(s) which might change medicine itself in the (nearest?) future.

Grammar in Use

Способы выражения будущего Future Simple

i dtare diffipie						
Positive						
I / He / She / It / We / You /		t will stu	will study		medicine.	
They						
	Negative					
I / He /	I / He / She / It won't study medicine.					
/We/\		(will		•		
		•				
They		not)				
Questions						
		I / he /				
(Why)	will	she / it /	stuc	٧Ł	medicine?	
(vviiy)	*****		Stut	a y	medicine:	
		we / you				
		/ they				

Future Simple используется для того, чтобы обозначить:

- 1. Решение, принятое в момент речи: *'I'm cold' 'I'll close the window.'*
- 2. Предсказание, основанное на чьем-либо мнении:

I think I'll get the best mark at the exam.

3. Факт, который будет иметь место в будущем:

The operation will start at 7am.

4. Обещания, просьбы:

I'll help you with your homework.
I will give up smoking!

1.	Примите	решение	или	сделайте
пр	едсказані	иe.		

e.g. I'm tired. I won't go to the library.

1. I am interested in children diseases.
become / a paediatrician

- 2. I am not sure about the diagnosis. speak / an experienced doctor
- 3. I don't understand this rule. explain / to you
- 4. He is spending almost all his time in the computer lab.

I think / he / make / an excellent report

5. She likes caring about children.	_
I think / she / become / a paediatrician.	

Future Continuous

i ataro continuouo						
	Positive					
I / He /	She / I	t will be	will be		Latin at 5	
/ We / You /		revising	revising		tomorrow.	
They						
		Negat	ive			
I / He / She /		won't	be		Latin at 5	
It / We / You /		(will	revising		tomorrow	
They		not)				
Questions						
		I / he /	be		Latin at 5	
(Why)	will	she / it /	revisi	ing	tomorrow?	
		we / you		-		
		/ they				

Future Continuous используется для того, чтобы обозначить:

- 1. Действие, которое будет иметь место, длиться, будет «в разгаре» в будущем:
 - At this time tomorrow, the surgeon will be making endoscopy.
- 2. Запланированное действие, которое будет иметь место в будущем (=**Present Continuous**, 3)

We're spending holiday at home. We'll be spending holiday at home.

NB. Существует еще один способ передачи запланированного действия в будущем. Мы можем использовать сочетание **going to+инфинитив глагола**.

We're going to spend holiday at home. Look out! She's going to faint!

Look out: one 3 going to faint :	
2. Употребите Future Continuous вместо	
глаголов в скобках. Поставьте (√), если м	Ы
можем также использовать Present Contin	uous 1
'going to' в предложении, и (*), если не мо	жем.
e.g. We (to learn) topics on psychiatry tonight	TICVV
We'll be learning new topics on psychi	
	[]
tonight.	V
Don't come after three. The doctor	
(to talk) to a group of	
adolescents with chronic diseases.	
At this time tomorrow, I (to speak) with my first patient.	
3. What you (to tonight?	do)
4. She (to see (=to need the family doctor on Tuesday.	neet)]
5. Next month we (to care of the elderly at the nursing home	take) □

- 3. "Предсказание судьбы"
- 1. Do you have a passport?
- 2. Write the numbers from your passport. 123456
- 3. Add the numbers: 1+2+3+4+5+6=21
- 4. Add the numbers again: 2+1=3
- 5. This is your lucky number: 3.

Теперь найдите ваши предсказания в таблице. Расскажите другим о вашем будущем.

e.g. My lucky number is 3. I'll become a clever family doctor. I'll have a long life. In future I'll organise a private clinic of family medicine. In 10 years' time I'll be fostering healthy lifestyles in a TV show.

	Who will you become?	What will happen to you in future?
1		specialise in treating
'	a rich surgeon	traumas
2	a hanny	advocate little patients in
	a happy	
3	paediatrician	difficult situations
3	a clever family	organise a private clinic of
	doctor	family medicine
4	a famous	become the Dean of the
_	dentist	Dental Faculty
5	a successful	take a course on
	psychiatrist	psychotherapy in the UK
6	a serious	become a professor
	pharmacist	
7	a popular	become the Minister of
	biochemist	Public Health of Russia
8	a responsible	take care of people with
	cardiologist	heart diseases
9	an inventive	get the Nobel Prize
	neurologist	
	What will you	What will you be doing
	have?	in 10 years' time?
1	a lot of money	take part in the World
		Conference of Surgeons
2	lots of friends	work on the project <i>Happy</i>
2		Healthy Children
3	long life	
3		Healthy Children foster healthy lifestyles in a TV show
4	long life a well-paid job	Healthy Children foster healthy lifestyles in
	a well-paid job	Healthy Children foster healthy lifestyles in a TV show
		Healthy Children foster healthy lifestyles in a TV show invent a vaccine against
4	a well-paid job	Healthy Children foster healthy lifestyles in a TV show invent a vaccine against caries
4	a well-paid job five children	Healthy Children foster healthy lifestyles in a TV show invent a vaccine against caries work on a new method of
4 5	a well-paid job	Healthy Children foster healthy lifestyles in a TV show invent a vaccine against caries work on a new method of treatment of schizophrenia
4 5 6	a well-paid job five children a yacht	Healthy Children foster healthy lifestyles in a TV show invent a vaccine against caries work on a new method of treatment of schizophrenia work on a panacea
4 5 6	a well-paid job five children a yacht	Healthy Children foster healthy lifestyles in a TV show invent a vaccine against caries work on a new method of treatment of schizophrenia work on a panacea look for a medicine for
4 5 6 7	a well-paid job five children a yacht a plane	Healthy Children foster healthy lifestyles in a TV show invent a vaccine against caries work on a new method of treatment of schizophrenia work on a panacea look for a medicine for cancer
4 5 6 7	a well-paid job five children a yacht a plane	Healthy Children foster healthy lifestyles in a TV show invent a vaccine against caries work on a new method of treatment of schizophrenia work on a panacea look for a medicine for cancer organise courses on

Checklist

Оцените, чему вы научились в этом уроке. Отметьте (√) утверждения, которые справедливы для вас.

- I know the names of medical specialties and can describe daily routine of physicians
- I can describe specific jobs of different specialists
- I can use Future Simple/going to and **Future Continuous**
- I can speak about my future profession

Key Words

ache n /eik/ adult n, adj /`ædəlt, ə`dʌlt/ adolescent n, adj /ædə`lesənt/ affect v / ə`fekt / care n, v /keə/ cancer n / kænsə/ confidence n / `konfidens / cough n / kɔf / defect n /di fekt/ diagnosis n /daiəg`nəusis/ elderly adi / eldəli/ ensure v / ɪn` ʃuə / extraction n / iks træk (ən / illness n / \langles lnes/ infant n /`infant/ / vlcv m \ v avlovni make an appointment manage v / mænid / management n / mænidsment/ prevention n /pri`ven [ən/ provide v/prə`vaid/ pain n / pein / reduce v /rı`dju:s/ removal n / rı`muvəl / substance abuse /`sabstans a`bju:s/ supply v / sə`plai / tumour n /`tiu:mə/ treat v / `tri:t/ treatment n / tri:tmənt/

Просмотрите еще раз материал урока. Запишите другие слова и выражения, которые могут оказаться для вас полезными, и выучите их.

UNIT IV. ACHIEVEMENTS OF MODERN MEDICINE

In this unit

- talking about advanvces in modern medical science
- describing the most impressive achievements in medicine
- using Past Simple and Past Continuous

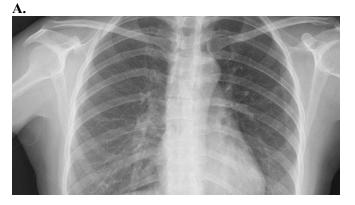
Lead-in

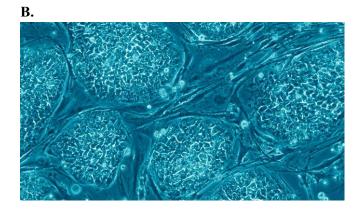
1. Изучите список из 10 самых значимых открытий в истории медицины. Соотнесите события и даты, когда они произошли:

Throughout history, disease has been a subject of fear and fascination. However, each revolutionary medical discovery has brought us closer to understanding the complex mysteries of disease and medicine. As a result, we have been able to develop medicines and treatments that have been instrumental in saving millions of lives. Here's a list of the top medical advances in history so far:

	4=00
1. Anaesthesia	a . 1796
2. Medical imaging (x-rays)	b . 1846
3. Organ transplants	c. 1861
4. Stem cell therapy	d . 1895
5. Vaccines	e . 1928
6. Penicillin	f . 1954
7. Artificial intelligence (AI)	g . 1960s
8. Immunotherapy	h . 1970s
9. Antiviral drugs	i. 1970s
10. Germ theory (discovery of	k. 21st century
pathogens)	

2. Какие открытия изображены на иллюстрациях?





C.

ν.			
		- 7	76
		-11	3
		1-14	

из	3. Согласны ли вы с автором статьи? Какие изобретения вы считаете наиболее важными' Дополните список двумя-тремя пунктами:				
2.					
3.					

Charles Mayo

Reading

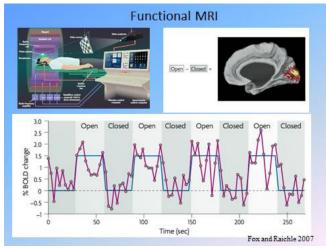
Medical Advances

Doctors and Patients Exploit Information Technology

Patients may not even think of it. But doctors say the Internet and information technology has actually changed the way they practice medicine for the better. Even doctors need to **look** things **up** from time to time.

"Early in practice, if I had a clinical question to research, I had to go to the library, pull out multiple years of the Index Medicus, look up the topic, write down the references, go to the stacks and pull the volumes of journals, find the article, read the article, go to the copy machine and make a copy. If I were lucky, I would have my answer in about four hours," said John Messmer, MD, associate professor at the Penn State College of Medicine in Hershey.

"Now I can be on rounds and in five minutes have more information on the topic than I need on my iPod Touch, I can look up a medication, check for **interactions** with a patient's other medications and double-check details of the pharmacology of the med plus quickly **review** the problem I am treating, and I don't even have to go online," said Messmer.



Fox MD, Raichle ME. Spontaneous fluctuations in brain activity

observed with functional magnetic resonance imaging. Net Rev Neurosci. 2007 Sep;8(9);700-11.

Minimally Invasive and Robotic Techniques Revolutionize Surgery

Ten years ago a patient would typically be left with a 10-inch **scar** when a doctor removed a kidney, but in late 2007 the surgeons at the Cleveland Clinic began removing kidneys through a single **incision** in the patient's navel. The reality is that robotic surgery is occurring daily in a growing number of centers across the developed countries.

The greatest benefit of tiny openings into the body rather than large incisions made by traditional surgery, is shorter and less painful **recovery time**.

Doctors have also used robotic surgery to improve the accuracy of procedures, especially in cancer cases.

"Robotic surgery **increased** the ability of cancer surgeons to get clean margins due to the **magnification** of the structures," said Douglas Bacon, MD, of the Mayo Clinic in Rochester, Minn.

Scientists Peer into Mind with fMRI

The functional MRI, often called fMRI, traces the working of neurons -- brain cells -- by tracking changes in the oxygen levels and **blood flow** to the brain. The more brain activity in one area, the more oxygen will be used and the more blood will flow to that area. As the patient answers the question, the fMRI tracks the activated areas of the brain by tracing the speed at which the cells metabolize glucose. fMRI was first developed in the early 1990s. "It has certainly taken off in the past 10 years as a **means** for studying the living human brain in action," said Caselli. "It has given us innumerable insights into cognition, social interactions, reward systems, decisionmaking, and so on."

Using this technique, researchers are learning **valuable** information about disease such as depression, brain cancer, autism, memory **disorders**, and even conditions such as the skin disorder **psoriasis**.

Vocabulary Practice

- 1. Объясните значение выделенных слов из текста на предыдущей странице.
- 2. Найдите определения для данных слов и словосочетаний.

1. blood flow	a. a permanent mark left on the body from a cut or other injury
2. incision	b. the small, round, and usually hollow place on your stomach, where you were connected to your mother before birth
3. navel	c. something good that you get or experience because you have worked hard, behaved well
4. interaction	d. quantity of blood flowing through a vessel, region or organ in unit time
5. magnification	e. an opening that is made in something with a sharp tool, especially in someone's body during an operation
6. recovery time	f. the way that two or more things combine and have an effect on each other
7. scar	g . the process of making something look bigger than it is, for example by using a microscope
8. reward	h. the time between the end of an anesthetic infusion and the opening of a patient's eyes.

3. Найдите в тексте синонимы к данным словам.

a a completition of	
an umbilicus	
an opening	
a study	
a theme	
a medication	
2.54 cm	
a cut	
an advantage	
to enlarge	
to charge	
a method	

4. Составьте словосочетания со словами из таблицы. Используйте каждое слово только один раз.

nam nan			
один раз. to write down	to double-check		
information			
associate	to look up to practice		
to remove	cancer		
memory	to metabolize		
<u> </u>	<u>l</u>		
1			
2			
3			
4			
5			
6			
7			
8			
9 10			
10.	giucose		
словосочетаниями.			
5. Просмотрите текст ещ вадания: Find in the text what the letters IT stal			
where John Messmer	works		
the title of the book including abbreviations of scientific journal titles			
a short form of the word "medication"			
the length of the scar	after the kidney removal		
a synonym to the word	ds "little, small"		
where the Mayo Clinic	is situated		
the decade where the	first MRI appeared		

... an example of a dermal disorder

Language Development

Language Development	In 1890, Emil von Behring, a German physiologist, antitoxins and used		
1. Какие предложения верны (Т)? Где допущены ошибки (F)? Исправьте неверные утверждения.	them to develop vaccines for diphtheria and tetanus. He later received the first Prize in Physiology or Medicine. In 1895, Wilhelm Conrad, a German		
The Internet and information technology do not have much effect on modern healthcare professionals.	physicist, discovered X-rays by producing and detecting electromagnetic In 1897, chemists of the German company Bayer AG produced the first Within 2 years, it		
2. The only way to solve a clinical problem in the 20 th century was to go to the library.	became a global commercial success. 3. Просмотрите текст еще раз и ответьте на		
3. Today the physician can get the necessary information about the meds while examining a patient.	вопросы. 1. What did medical professionals have to do earlier to find an answer to a clinical question?		
4. When the kidney was removed in a patient using traditional surgery, the scar was more than 35 cm long.	2. Which information about disease and meds is		
5. Robotic surgery is not very useful in oncological operations.	available now instantly thanks to information technology?		
6. fMRI measures both the amount of oxygen and the speed of blood flow. 7. fMRI can help treat dermal diseases.	3. How has the technique of removing kidneys changed over years?		
2. Закончите предложения, используя слова из таблицы. Фамилии каких ученых послужили основой для образования эпонимов: имен собственных, перешедших в названия?	4. What is the main advantage of Minimally Invasive Surgery?		
procedure, cholera, radiation, Nobel, Röntgen, sterilize, anaesthetic, anesthesia, vaccine, discovered, Aspirin	5. What is the role of robots in cancer surgery?		
In 1800, British chemist and inventor Humphry Davy described theproperties of nitrous oxide, known as laughing gas. In 1842, Crawford Long, an American	6. What is functional MRI? How does it work?		
pharmacist and surgeon, was the first doctor to give a patient inhaled etherfor a surgical	7. What do researchers learn using fMRI??		
In 1867, Joseph Lister, a British surgeon and a pioneer of antiseptic surgery, successfully used phenol to clean wounds and	4. Проект.		
surgical instruments. In 1879, Lois Pasteur produced the first laboratory-developed, which was against chicken	Which inventions are changing medicine right now? How do they work? Which diseases can they help treat? Surf the Internet and prepare a short speech or essay on one of such important medical advances.		

Grammar in Use

Past Simple

Positive								
I/We/Y	ou /		examined		10 patients.			
They / He	/ She	Э	(5	saw	')			
/ It								
Negative								
I/We/Y	ou /							
They / He	: /	didn't e		ex	xamine pa		atients.	
She / It				(see)				
Questions								
		1/	we /					
(Where)	did	you / they		exa	mir	ıe	them?	
		/ he / she		(s	ee)			
		/ i	t					

Сигнальные слова: yesterday (вчера), the day before yesterday (позавчера), last week (month, year) (на прошлой неделе (в прошлом месяце, году), ago (тому назад), in 1999 (1917, 2000) (в 1999 (1917, 2000) году).

Past Simple используется для того, чтобы обозначить:

- 1 Действия, которые имели место и были завершены в прошлом: Last Friday I **talked** to my pharmacist.
- 2 Привычные действия в прошлом: *This* patient **smoked** 40 cigarettes a day before the operation on the heart.

Past Continuous

Positive/Negative					
I / He / Sl	/ He / She / was		S		making an
It	t			(not)	operation at
We / You	/	were)	10 yesterday.
They					
Questions					
	was			I / he /	making an
(Where)			;	she / it	operation at
	were	9	W	e / you / they	10 yesterday?

Сигнальные слова: while (в то время как (в прошлом), as long as (пока), at 7 р.т. yesterday (в семь вечера вчера)

Past Continuous используется для того, чтобы обозначить:

- 1 Действия, которые имели место, были «в разгаре», когда произошло что-либо еще: *The dentist was making* an x-ray when the phone rang.
- 2 Действия, которые происходили одновременно в прошлом: While I was examining a patient, the nurse was making notes.
- 3 Временные действия, которые происходили в определенное время в прошлом: What were you doing yesterday at 9? I was sleeping.

1. Задайте вопросы, чтобы получить недостающую информацию. Затем ответьте на них:
Yesterday Dr Faulkner installed
crowns.
How many crowns
2. I was seeing Mr Smith At what time
3. My mother saw in hospital. Who?
4. Professor Mortimer taught the students What
5. I didn't come yesterday because Why
6. When I was having a severe pain, I went to? Where?
7. The dentist was making when the phone rang.
8. This patient gave up smoking? When?
2. Закончите предложения, употребив глаголы в форме Past Simple или Past Continuous.
1. While the nurse (to
give) a vaccine to the little boy, the paediatrician (to talk) to his parents.
2. My grandfather (to have) heart surgery last month.
3. Mr Brown (to smoke) 20 cigarettes a day when he (to be) younger.
4. What you (to do) all evening yesterday? I (to call) you ten times!
5. Last week Jack (to be) ill with a cold. He (to buy) all the medicines possible but they (not to help) him much really.
6. 'What you (to do) when you (to have) this pain for the first time?' 'I (to work) in the garden.'

7. When scientists (to start)

using AI in medicine?

3. Прочитайте статью о «теледокторе», работающем в одной из больниц США. Употребите глаголы, данные в скобках, в правильной форме (Present, Past или Future Simple или Continuous).

Ries Denial ¹ (to wait) in his
Ries Denial ¹ (to wait) in his hospital room the morning after bladder surgery
when the door finally ² (to open).
when the door finally ²(to open). But it ³ (not to be) a doctor. The
robot ⁴ (to come) to the
robot 4 (to come) to the patient's bed and 5 (to switch) on
its 15 inch video serson
its 15-inch video-screen. 'Good morning,' ⁶ (to say) the
Good morning, (to say) the
voice from the robot's speaker. It
⁷ (to be) Louis Kavoussi, Daniel's urologist. He
from the screen of the so-called Dr Robot. 'So,
how
⁹ (to be) you today?'
" (to be) you today?' (to be) fine, doctor.'
Then Kavoussi
camera on the Daniel's chart. 'Oh, I
12 (to see) you 13 (to have) high
temperature vesterday evening.
'Yes, I ¹⁴ (not to feel) quite well. But the nurse ¹⁵ (to give) me some medicine, and it ¹⁶ (to be)
But the nurse ¹⁵ (to give) me
some medicine and it (to be)
OK.'
Kavoussi ¹⁷ (to examine)
Daniel with the help of the camera.
'You 18 /ta look) good now?
'You ¹⁸ (to look) good now,' ¹⁹ (to say) Kavoussi. 'I
(lo say) Navoussi. I
20 (to think) I
21(to let) you go home tomorrow. But first you
²² (to do) an x-ray and some
other tests.'
'OK.'
After that Kavoussi ²³ (to
make) the robot leave the room.
In dozens hospitals across the country doctors
now ²⁴ (to use) such
robots to monitor A&E departments and post-
operative patients, to respond to emergency
calls and consult with other physicians.
Some people ²⁵ (to think) that
such 'telemedicine' technologies
²⁶ (to help) doctors to use their time more
efficiently and see more patients.
Sceptics, however, ²⁷ (to think)
that the technology 28
(to depersonalise) health care and doctors
²⁹ (to spend) less and
less time with their patients.

Каково ваше мнение о «телемедицине»? Хотели бы вы быть «теледоктором»?

«телепациентом»?

Checklist

Оцените, чему вы научились в этом уроке. Отметьте (✓) утверждения, которые справедливы для вас.

- I can talk about advanvces in modern medical science
- I can describe the most impressive achievements in medicine
- I can use Past Simple and Past Continuous

Key Words

blood flow /blad flau/ decision-making n /di`sizən `meikin/ /ebc'alb/ n /dis`ada/ exploit v /iks`ploit/ incision n /In`sɪʒən/ increase v/m`kri:s/ interaction n /,Intə`ræk [ən/ invasive adj / in`veiziv / level n /`levəl/ look up v / luk Ap / magnification *n* / ,mægnɪfɪ`keɪ∫ən / means *n* /mi:nz / navel n / nerval / psoriasis n / sɔ`raɪəsɪs / recovery time / ri`kavəri taim / reference *n* / refərəns/ research n /rı`sə:tʃ/ review v /rı`vju:/ reward n /rı`wɔ:d/ scar n /ska:/ take off v / teik of/ track v / træk / valuable adj /`væljubl/

Просмотрите еще раз материал урока. Запишите другие слова и выражения, которые могут оказаться для вас полезными, и выучите их.

UNIT V. MEDICAL ETHICS

In this unit

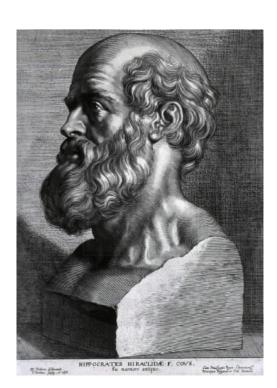
- · talking about ethics, medical ethics, bioethics
- describing the main principles and rules of medical boiethics and its influence on native medical ethics
- using the modal verbs



- 1. Ответьте на вопросы.
- What is ethics? How do you understand it?
- Can you say that "ethical" is the synonym to "moral"?
- What can be ethical? (behaviour, issue, question, problem, norms, standards)
- What spheres can ethical norms be applied to?
- How do we call ethics for medical profession?
- Which of the following issues do you think are ethical? unethical?
- **a.** sexual relationship between patients and doctors
- **b.** using organs for transplantation of the person who has just died
- c. doing abortion and terminating pregnancy
- d. donating an organ to a sick relative
- **e.** applying plastic surgery to reshape and rebuild your nose, cheekbones, teeth, *etc.*

3. Прочитайте текст о медицинской этике. Приготовьтесь пересказать текст по плану:

- 1. Overview of medical ethics.
- 2. History.
- 3. Ethical guidelines.
- 4. Bioethics.
- 5. Bioethical issues.



Hippocrates (460 – 370 BC). Engraving by Peter Paul Rubens

2. Прочитайте отрывок из клятвы Гиппократа. Как вы понимаете данные утверждения?

"I swear to fulfil, to the best of my ability and judgment, this covenant:

I will apply, for the benefit of the sick, all measures which are required

I will remember that there is art to medicine as well as science, and that warmth, sympathy, and understanding may outweigh the surgeon's knife or the chemist's drug.

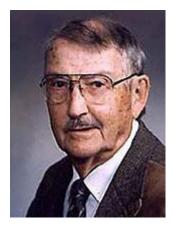
I will not be ashamed to say "I know not," nor will I fail to call in my colleagues when the skills of another are needed for a patient's recovery.

I will respect the privacy of my patients, for their problems are not disclosed to me that the world may know.

I will remember that I do not treat a fever chart, a cancerous growth, but a sick human being

I will prevent disease whenever I can, for prevention is preferable to cure.

If I do not violate this oath, may I enjoy life and art, respected while I live and remembered with affection thereafter ...



Van Rensselaer Potter (1911- 2001)

In 1970, American biochemist and Professor of oncology V.R.Potter proposed the term bioethics to describe a new philosophy that sought to integrate biology, ecology, medicine and human values.

The principle objective of the medical profession is to render service to humanity with the full respect to the dignity of man – Ethical Code, 1957

Reading

Medical Ethics

Overview of Medical Ethics

Ethics (from Greek ethos, customary behaviour, morals) means the system of principles of right or wrong in human conduct. Ethics in medical practice is called medical ethics. Medical ethics as an essential branch of general ethics determines the moral norms and standards for medical care.

The statements of medical ethics **require** the physician to do what is best for the patient and place the patient's interests before the interests of the physician. Above all, the purpose of medical ethics is to **protect** and defend the **dignity** and patients' rights.

History

The global medical profession has **maintained** simple ethical standards for more than 4,000 years. For example, the Hippocratic Oath, the Holy Bible, the Holy Koran, the Islamic legacy, as well as cultures, traditions, and social morality have shaped and **guided** the development of ethical standards in the medical profession. One of the oldest documents in history, the Oath by Hippocrates is still held sacred by physicians: to treat the ill to the best of one's ability, to **preserve** a patient's privacy, to teach the secrets of medicine to the next generation, *etc*.

Ethical Guidelines

Development of science and technology have led to advances in medicine and health care. The changing life **brings about** new challenges for health workers, health researchers. Medical professionals constantly confront moral questions and ethical dilemmas. The old ethical norms became outdated and could not meet the requirements of modern life. That is why the World Medical Association (WMA) adopted a number of international ethical codes (the Declaration of Geneva (1948) and the Declaration of Lisbon (1984), which are the guidelines for the medical profession nowadays. According to these guidelines health care providers must not violate any ethical standards. Every doctor must

- make the *care* of his patient his first concern.
- treat every patient politely and considerately.

- give patients information in a way they can understand.
- keep his professional knowledge up to date.
- recognize the limits of his professional competence.
- be honest and trustworthy.
- respect and protect confidential information.
- make sure his personal beliefs do not prejudice his patient's care.
- act quickly to protect patients from risk if he has a good reason to believe that he or his colleague may not be *fit to practice*.

Bioethics

The branch of ethics that directly relates to medicine and biology is known as bioethics or biomedical ethics.

Bioethics is the study of debatable ethical problems brought about by advances in biology and medicine. Bioethicists are concerned with the ethical questions that arise in the relationships among life sciences, biotechnology, medicine, politics, law, and philosophy. The examples of bioethical **issues** are:

Euthanasia

Should the medical profession help the **terminally ill** to end their lives when they choose?

· Genetic engineering

Should we permit an embryo to be cloned – copied exactly – to replace a child who has died? Should parents be able to select the **genetic makeup** of their children to produce so-called designer babies?

Human Fertility

IVF - in vitro fertilization - has made it possible for infertile women to have children, but should this include women long past the normal age of childbearing?

Embryos can be **frozen** and implanted in the mother at a later date but should this require the **consent** or permission of both parents if the marriage has broken down?

What are the rights of a **surrogate mother**, one who carries a child for a woman who is unable to do so, over that child?

Transplant surgery

Who should give consent for the removal of body parts for transplant surgery?

Vocabulary Practice

- 1. Объясните значение выделенных слов из текста на предыдущей странице.
- 2. Словообразование. Образуйте слова от данных в таблице с помощью приставки *re-* и объясните значение новых слов.

to do – to redo	to shape -
to name -	to build -
to place -	to construct -
to use -	to write -
to read -	to make -
to examine	to visit

3. Найдите определения для данных слов и словосочетаний.

словосочетании.	
1. dignity	a. an operation in which a damaged organ from one organism is replaced with a healthy organ from another organism
2. euthanasia	b. the science of changing the structure of genes of a living thing in order to make it healthier
3. competence	c. ability to have children
4. guideline	d. general rule, principle, or piece of advice on how to do sth
5. fertility	e. the ability to do sth well
6. genetic engineering	f. the act of killing without pain a person who is suffering from incurable disease or from very old age
7. transplant surgery	g. calm, serious and controlled behaviour that makes people respect you

4. Составьте словосочетания со словами из таблицы. Используйте каждое слово только один раз.

surrogate	confidential	moral
frozen	ethical	human
infertile	social	customary
genetic	professional	essential

1	branch	7	information
2	conduct	8	morality
3.	norms	9.	guidelines
4.	mother	10.	behaviour
5	makeup	11.	embryos
6	women	12	- ·
		competence	

5. Закончите предложения, используя слова из таблицы, синонимы к которым даны в скобках.

issues	preserve	protect
violation	consent	requirement
bring about	maintained	determine

1. Medical ethics	(establish)
the moral norms and standards	
The purpose of medical ethic	
(defend) the dig	gnity and patient's
rights.	
3. He said that the way the hos	
him was a gross rules) of his civil, constitutional	(breaking the
rules) of his civil, constitutional	and human
rights.	
4. The global medical professio	
(preserved) simple ethical stan	dards for more
than 4,000 years.	(001100
5. The new President must to happen) a change in the hea	(cause
6. A good degree is a minimum	
(demand) for many jobs.	
7. Politicians never discuss the	real
7. I dittolario riever alboado trio	Tour
(problems).	
8. One of the Hippocrates' princ	ciples is to
(protect) a patient's privacy.	
9. In nonemergency situations,	written informed
(agreement)	
required before many medical p	procedures, such
as surgery, endoscopy, <i>etc</i> .	
(O.C. "	.1. 1
6. Образуйте словосочетания с затем составьте с ними предло	
затем составьте с ними предло	жения.
Ethical: norms, dilemmas, code	es standards
questions, problems, issues, gu	
γ, γ	

7. Укажите синонимы к словам, выделенным жирным шрифтом.

Up to date	Out of date	Terminally ill
modern	out of way	mortal
fashionable	old fashioned	fatal
recent	no longer valid	lethal
new	antiquated	seriously ill
human	obsolete	incurable

Language Development

- 1. Просмотрите текст еще раз и ответьте на вопросы.

 1. What is ethics? Give the definition.

 2. What is the purpose of medical ethics?

 3. What books and manuscripts helped to develop the ethical standards and norms of a medical profession?

 4. When and where were the modern international codes of ethics adopted?
- 5. What must the doctor do according to the guidelines of ethical code?
- 6. What is bioethics?
- 7. What issues is bioethics concerned with?
- 2. Перескажите текст по плану, данному в упражнении 3 на стр. 49.
- 3. Какая из этических норм профессии врача, упомянутых в тексте, нарушается в каждом из перечисленных случаев?
- **a.** A GP falls asleep regularly during consultations. His colleagues do nothing.
- **b.** A doctor is aware that a patient has a history of violence against women. She informs a friend whose daughter has just become engaged to this man
- **c.** A doctor attempts to discourage a patient from having an abortion as this procedure is against his religious beliefs.

- **d.** A doctor refers a patient to a medical textbook for an explanation of his pancreatic cancer.
- **e.** A doctor fails to complete the number of days of professional development training advised annually.
- **f.** A doctor tells a seriously overweight patient who has ignored his advice to diet that she deserves any ill effects that might result from her obesity.

4. Запомните значение новых слов и выражений. Прочитайте статью из журнала:

to be struck	removed from the GMC	
off	register and banned from	
	practising medicine in the UK	
palliative care	treatment to relieve rather	
	than to cure symptoms	
hospice	facility providing care to	
	terminally ill patients	
terminally ill	not expected to live	
persistent	unable to speak or follow	
vegetative	simple commands; does	
state	not respond in any	
	psychologically meaningful	
	way	

Assisted Dying

A 53-year-old woman with **incurable** muscular dystrophy flew to Switzerland to end her life. **Assisted dying** is legal in Switzerland but illegal in the UK. Opponents of euthanasia, or "mercy killing", argue that legalization would lead to abuse and call for doctors who participate to be **struck off.** What Britain needs, they claim, is better **palliative care** and more **hospices** for the **terminally ill** to allow such patients to die with dignity.

This follows a recent US case where the husband of a woman who had been in a **persistent vegetative state** for 16 years was successful in having artificial feeding withdrawn in spite of opposition from his wife's parents.

Ответьте на вопросы по тексту.

- 1. What ethical question is described in the text?
- 2. In which countries is euthanasia legal and in which is illegal?
- 3. Why are doctors in the UK against euthanasia?
- 4. What is an alternative to euthanasia?

5. Проект.

What is your opinion on assisted dying? Prepare a short speech or essay on pros and cons of euthanasia.

Grammar in Use

Модальные глаголы

Positive/Negative			
1			treat this patient for pneumonia.
He	са	n / can't	be honest and trustworthy.
She	could	l / couldn't	give consent for the removal of body parts for transplant
lt	may	/ may not	surgery.
We	must	t / mustn't	preserve a patient's privacy.
You should / shouldn't respect and protect confider		l / shouldn't	respect and protect confidential information.
They	They learn hard to get the best results.		learn hard to get the best results.
	Questions		
	I treat this patient for pneumonia?		
Ca	an	he	be honest and trustworthy?
Co	uld	she	give consent for the removal of body parts for transplant
Ma	ay	it	surgery?
Mι	ıst	we	preserve a patient's privacy?
Sho	ould	you	respect and protect confidential information?
		they	learn hard to get the best results?

Все модальные глаголы имеют два значения. В первом значении они выражают способность, обязательство, разрешение и т.п. Второе значение модальных глаголов связано с выражением вероятности или возможности каких-либо действий. В этом уроке мы говорим о модальных глаголах в первом значении.

The Modal Verbs in the First Meaning (Tenses)

The modal verb	Present	Past	Future
can	can	could	will be able to
	am/is/are able to	was/were able to	
may	may	was/were allowed to	will be allowed to
-	am/is/are allowed to		
must	must	had to	will have to
	have to		
should	should	-	-

Мы используем модальные глаголы, чтобы выразить:

Способность:

He **can** take an x-ray. (Он **умеет** делать рентген.) – He **could** take an x-ray when he was in the sixth year. – He **will be able to** take an x-ray after graduation.

Разрешение/запрет:

May/Can/Could I take your stethoscope? (**Можно** взять твой стетоскоп?) – Yes, of course. (Да, конечно) /I'm afraid, you **may** not. I need it right now. (Боюсь, **нельзя**. Он мне нужен прямо сейчас).

I was not allowed to examine the patient myself. (Мне не разрешили осмотреть пациента самому.)

You **may not** take the exam if your score is less than 76. (Вам **нельзя** сдавать экзамен, если вы наберете менее 76 баллов.)

We'll be allowed to take part in health researches after graduation.

Обязательство:

Students **must** do their homework. (Студенты **должны** делать домашнее задание.) We **have to** wear uniform at work. (Нам **приходится** носить спецодежду на работе.) I **had to** work late last night. (Мне **пришлось** работать допоздна прошлой ночью.)

Must we come at 8 tomorrow?(Нам **нужно** приходить завтра в 8?) — Yes, you **must.** (Да) / No, you **don't have to.** (Нет, в этом **нет необхоимости**). — No, you **mustn't.**(Нет, вы **не должны** приходить, это запрещено)

Совет:

Doctors **should** follow ethical standards. (Врачам **следует** соблюдать этические нормы.) You **shouldn't** eat so much. (Вам **не следует** так много есть.)

Просьба:

Can/Could I ask you a question? (Можно задать вам вопрос?)

- 1. Составьте как можно больше предложений, используя слова из грамматических таблиц. Объясните значение модального глагола в каждом предложении.
- 2. Употребите модальные глаголы или их эквиваленты в следующих предложениях. Укажите, в каких предложениях возможны варианты.

-	
Medical professionalsshout at patients.	_ not
Every doctor understar limits of his/her professional competence.	nd the e.
3. My father at the operations when he was 20 years	assist old.
4. Next month Dr Thomas work more becar Smith will be on holiday.	use Dr
5 I ask you a question,	please?
6. All medical studentshave stethoscopes of their own.	
7. I think you ask a to give you more information about your condition.	doctor
8. The university library is free. You not pay to take a book.	
9. You not sm inside the hospital.	oke
10. I am learning philosophy very hard b	out I still
11. I am sorry, I not help you but I help you tomor	u now, row.
12. Younot be good doctor in future if you don't work h now.	ecome a ard right
13 second-year students ECG?	take an
14. I think every personhappy.	be
15. Medical students not	

attend classes without their uniform.

– No, you

16. _____ we finish this work by Monday?

Checklist

Оцените, чему вы научились в этом уроке. Отметьте (✓) утверждения, которые справедливы для вас.

- I can talk about ethics, medical ethics and bioethics
 I can describe the main principles and rules of medical bioethics
- I can make the right decision in difficult cases from the point of view of medical ethics.
- I can use the modal verbs

Key Words

bioethics *n* /baɪəu`eθɪks/ bring about v /brin ə`baut/ consent *n* / kpnsənt/ determine v /di`t3:min/* dignity n / digniti/ embryo *n* /`embrɪəu/ ethics n / $e\theta$ i ks/ euthanasia *n /*ju:θə`neɪʒə/ fertility n /fə`tılıtı/ fertilisation n /,f3:tɪlaɪ`zeɪ[ən/ freeze v /fri:z/ genetic makeup /dʒə`netik `meik,ʌp / quide v/qaid/ guidelines n pl. /`gaɪdlaɪnz/ issue n / Ifu:/ maintain v/mein`tein/ meet the requirements /ri`kwaiəmənts/ out-of-date adj /,autəv`deɪt/ outdated adj /aut deitid/ preserve v/pri`z3:v/ protect v /prə`tekt/ require v/ri`kwaiə/ requirement *n* /ri`kwaiəmənt/ surrogate mother /`sʌrəgət `mʌðə/ terminally ill / t3:minəli il/ transplant surgery /træn`spla:nt `s3:dʒərɪ/ up-to-date adj /,Aptə`deɪt/ violate v /`varəleit/

Просмотрите еще раз материал урока. Запишите другие слова и выражения, которые могут оказаться для вас полезными, и выучите их.

UNIT VI. AT THE HOSPITAL

In this unit

- talking about different types of medical institutions providing health care
- describing different departments of the hospital and work of the hospital staff
- using numerals and prepositions of time



Lead-in

1. Ответьте на вопросы.

- Are there any large hospitals in our city?
 Where are they located?
- What type of hospitals are they? Are they general, teaching or specialized hospitals?
- In what city hospitals do you have your classes or practical training? Are they far from the University? How do you get there?
- What hospital (department) would you like to work at after the Academy? Why?

2. Соотнесите отделенияи работу, которую они выполняют.

Which of the departments shown opposite

- 1. dispenses medicine?
- 2. treats kidney disease?
- 3. specializes in pregnancy and birth?
- 4. studies illnesses and analyses samples?
- 5. treats diseases of the skin?
- 6. performs operations on patients?
- 7. designs special exercises for patients?
- 8. treats dental and gum problems?
- 9. treats bones?
- 10. specializes in the heart?
- 11. deals with sick children?
- 12. treats disorders of the nervous system
- 13. provides x-rays and other images?
- 14. provides assessment and treatment of acutely ill patients?

3. Укажите, в каких отделениях работают эти спепиалисты.

<u>b</u>	cardiologist	urologist
	anaesthetist	 physiotherapist
	lab technician	 radiologist
	midwife	 surgeon
	paediatrician	 nurse
	pharmacist	 dermatologist
	neurologist	 gynaecologist
	scrub nurse	

4. Прочитайте. Подчеркните подходящие по смыслу слова.

In the Middle Ages hospitals served different functions to modern institutes/institutions. People who stay in the hospital for several days and weeks are called inpatients/outpatients. People who come to the hospital to have tests or treatment and then return home on the same day are inpatients/outpatients. The rooms where patients stay in hospital are called departments/ wards. After the treatment is completed the patient is admitted/discharged back to the GP's care. In case of life-threatening situation the patient is admitted to the ICU/A&E.

Hospital Departments

Dethology	
Pathology	а
Cardiology	b
Physiotherapy	С
Renal Unit	d
Pharmacy	е
Orthopaedics	f
Neurology	g
Paediatrics	h
Dermatology	i
Dentistry	j
Obstetrics	k
Surgery	I
X-ray	m
Emergency	n

Reading

Hospitals

Etymology

During the Middle Ages hospitals served different functions to modern **institutions**, being almshouses for the poor, hostels for pilgrims, or hospital schools. The word *hospital* comes from the Latin *hospes*, signifying a stranger or foreigner, *i.e.*, a guest.

At present, the definition for the word reads as follows: '**Hospital** is an institution that provides medical, surgical, or psychiatric care and treatment for the sick or the injured.'

Types

Some patients go to a hospital just for diagnosis, treatment, or therapy and then leave ('outpatients') without staying overnight; while others are 'admitted' and stay overnight or for several days or weeks or months ('inpatients'). Hospitals usually are distinguished from other types of medical facilities by their ability to admit and care for inpatients while the others often are described as clinics.

General

The best-known type of hospital is the general hospital, which is set up to deal with many kinds of disease and injury, and normally has an emergency department to deal with immediate and urgent threats to health. Larger cities may have several hospitals of varying sizes and facilities. Some hospitals have their own **ambulance** service.

District

A district hospital typically is the major health care facility in its region, with large numbers of beds for intensive care and long-term care; and specialized facilities for surgery, plastic surgery, childbirth, bioassay laboratories, etc.

Teaching

A teaching hospital combines assistance to patients with teaching to medical students and nurses and often is linked to a medical school, nursing school or university.

Specialized

Types of specialized hospitals include trauma centres, rehabilitation hospitals, children's, **geriatric**

hospitals, and hospitals for dealing with specific medical needs such as psychiatric problems, certain disease categories such as cardiac, oncology, or dental problems, and so forth.

Clinics

A medical facility smaller than a hospital is generally called a **clinic**, and often is run by a government agency for health services or a private partnership of physicians (in nations where private practice is allowed). Clinics generally provide only outpatient services.

Departments

A patient can be admitted to the hospital in a number of ways. He may be seen in his outpatient clinic and then referred by his GP to a certain **department** of the hospital. If there is a lot of demand for the treatment he needs, as in the case of hip replacement, he is put on a waiting list for admission. Or in case of emergency, he may be seen in the A&E Department, where the doctor **on duty** – working at that time – **arranges** the admission. Hospitals vary widely in the services they offer and therefore, in the departments (or "wards") they have.

A large hospital may have different departments, e.g.

- Emergency department
- Cardiology
- ICU (Intensive care unit) (paediatric, neonatal, cardiovascular)
- Neurology
- Oncology
- Obstetrics and gynaecology, etc.

Some hospitals will have outpatient departments and some will have chronic treatment units such as behavioural health services, dermatology, physical therapy, psychiatric ward and rehabilitation services.

The people who work in hospitals are called the **staff.** Once a patient is admitted, treatment is controlled by one of the hospital doctors. On his regular **ward rounds** he is **accompanied** by a consultant and a **nurse** and they discuss the management of patients and decide when the patient is ready **to be discharged.** The nurse's role is general patient's care, **checking temperature**, **pulse rate** and blood pressure, **changing dressings**, **giving injections** and **removing sutures**.

Vocabulary Practice

- 1. Объясните значение выделенных слов из текста на предыдущей странице.
- 2. Словообразование. Образуйте существительные от глаголов.

Verb	Noun
admit	
assess	
discharge	
operate	
refer	
treat	
arrange	

3. Подберите антонимы из столбика В к словам из столбика А.

A. 1. outpatient	B. a.rich
2. poor	b. state
3. to be admitted	c. neonatal
	department
4. private	d. chronic treatment
5. emergency care	e. off duty
6. geriatric	f. to be discharged
department	
7. on duty	g. inpatient

4. Подберите синонимы к словам из первого столбика.

1. strange	a. immediate
2. care	b. foreign
3. sick	c. organize
4. hospital	d. accept
5. admit	e. clinic
6. urgent	f. ill
7. arrange	g. wounded
8. injured	h. treatment

5. Составьте словосочетания со словами из таблицы. Используйте каждое слово только один раз.

regular

psychiatric intensive

specific nursing	geriatric medical		urgent plastic
2 3	facility hospital needs school	6 7 8 9	problem surgery treatment care
5	ward rou	ınds	
Составьте пред из упражнений		я со слово	осочетаниями

6. Закончите предложения, используя слова из таблицы, синонимы к которым даны в скобках.

accompanied	departments	checks
was discharged	admitted	clinic
from		
intensive care	geriatric	urgent

11	ntensive care		geriatric		urgent	Ш
1.	The rehabilitation	n _		(hospital)
foi	for alcoholics is near the Green Park.					
2. Patients were (hospitalized)						
	the inpatient dep					
	My grandfather i					_
	ard (the departm).	
	'Can I see you fo			s It		
	(imme Yesterday he		•		(loft)	
O. tha	Yesterday he e hospital as his	cor	ndition had in		(left)	
	In the morning th				veu.	
	(take				ature and	4
fee	els pulse.	,	patiente ten	.60.	ataro arr	-
	Every large hosp	oita	I has a unit tl	hat r	orovides	
	(h	eal	Ith care prov			
cr	itically ill patien	ts)	•			
8.	On his regular w					
		fol	lowed) by a	cons	sultant	
	d a nurse.					
	The hospital had	m	any different			-
(a	ivisions).					
7	05					
	Образуйте слово отребите их в пр			ем		
y 11	1 remove	јед.	a a dressing			
	2 arrange		b sutures	<u> </u>		
	3 put on		c an injection			
	4 check		d admission			
	5 give		e a waiting			
	6 change		f blood pres		e (BP)	
1.	The patient's co					
	as					
2.	It took the nurse	se	- everal minute	s to		
	from my wound.				•	
3.	The GP may				fo	r
	s patients by tele	•				
	In case of acute					
ne	ecessary to Twice a week the			_ of	painkiller	
5. 	I wice a week the	ер	atient goes to	o the	e outpatie	ent
ae e	partment to Elderly people s	hai	ıld	on	tne wour	ıa.
О.	Elderly people s	ΠΟυ			regulariy	/ -
8. Составьте словосочетания, используя						
	нные существит					_
	acility, service, ca					
	ategory, rate, em					
d	istrict, departmer	nt, I	pulse , hospi	tal, s	service,	

rehabilitation, trauma, centre.

e.g. health care facility

Language Development

1. Дополните описания обязанностей медицинского персонала глаголами, и соотнесите их со специальностями из Lead-in (упражнение 3).

() possition)	•	
treats	performs	prepares
gives	extracts	takes
supports	specializes	delivers
administers	checks	

e.g. A <u>paediatrician</u> <u>treats</u> children.	
1. A attends births and	
babies.	
2. A	in
illnesses of the heart and blood vessels.	
3. A x-ra	ays
3. A x-raand other images.	
4. A	
4. A surgeons in the operating theatre.	
5. A	
medicines to give to medical staff or patie 6. A paramedic responds to emergencies	
first sid	allu
first aid.	-ations
7. A oper	
8. A treat oral disea and bad teeth.	ases
and bad teetn.	
9. An	
anaesthesia to pre-operative patients.	l
10. A pul rate, blood pressure and temperature of	se
rate, blood pressure and temperature of	
patients in the ward.	
2.Закончите предложения, используя сл таблицы.	oba no
ward, ambulance, admits, patients, w round, outpatient, clinic, discharged,	
ward, ambulance, admits, patients, w	
ward, ambulance, admits, patients, w round, outpatient, clinic, discharged, referral1. A patient who is well enough to go hon	ard
 ward, ambulance, admits, patients, w round, outpatient, clinic, discharged, referral 1. A patient who is well enough to go hon be 	ard
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ward, ambulance, admits, patients, w round, outpatient, clinic, discharged, referral 1. A patient who is well enough to go hon be 2. Every day the doctor will speak to the patients during the	ne will
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ward, ambulance, admits, patients, w round, outpatient, clinic, discharged, referral 1. A patient who is well enough to go hon be 2. Every day the doctor will speak to the patients during the 3. A patient who does not need to stay in hospital overnight can see the hospital specialist as an and wi given an appointment to attend the 4. People in hospital with some form of ill are known as 5. When patients first arrive at hospital, a or nurse them and shows to a bed in a 6. There may be the letter of	ne will Il be ness doctor
ward, ambulance, admits, patients, w round, outpatient, clinic, discharged, referral 1. A patient who is well enough to go hon be 2. Every day the doctor will speak to the patients during the 3. A patient who does not need to stay in hospital overnight can see the hospital specialist as an and wi given an appointment to attend the 4. People in hospital with some form of ill are known as 5. When patients first arrive at hospital, a or nurse them and shows to a bed in a 6. There may be the letter of from another doctor explaining the history.	ne will Il be ness doctor them
ward, ambulance, admits, patients, w round, outpatient, clinic, discharged, referral 1. A patient who is well enough to go hon be 2. Every day the doctor will speak to the patients during the 3. A patient who does not need to stay in hospital overnight can see the hospital specialist as an and wi given an appointment to attend the 4. People in hospital with some form of ill are known as 5. When patients first arrive at hospital, a or nurse them and shows to a bed in a 6. There may be the letter of	ne will Il be ness doctor them

3. Просмотрите текст	еще	раз	И	ответьте	на
вопросы.					

1. What is a hospital?
2. What types of hospital do you know?
3. What diseases do general hospitals deal with?
4. What types of specialized hospitals can you name?
5. What is the difference between hospital and clinic?
6. What departments does a large hospital have?
7. What do doctors do during their ward rounds?
8. What are the duties of the nurse in hospital?
4. Проект.
Think about the features of an ideal place where you would like to work. Which departments would it include? Which specialists would you invite to your team? Surf the Internet and find out about modern technologies which help doctors. Which of these would you like to have? Prepare a short speech or essay.

Grammar in Use

Числа

Числительные

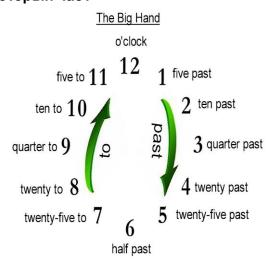
дисли јеленеје	
Количественные	Порядковые
0 (nought/zero/oh)	-
1 one	1 st first
2 two	2 nd second
3 three	3 rd third
4 four	4 th fourth
11 eleven	11 th eleventh
12 twelve	12 th twelfth
13 thirteen	13 th thirteenth
20 twenty	20 th twentieth
21 twenty one	21st twenty first
30 thirty	30 th thirtieth
32 thirty two	32 nd thirty second
100 one hundred	100 th one hundredth
101 one hundred and	101st one hundred
one	and first
200 two hundred	200 th two hundredth
1,000 one thousand	1,000 th one thousandth
1,234 one thousand	1,234 th one
two hundred and	thousand two
thirty four	hundred and thirty
	fourth

Примечания:

1 0 произносится: **oh** (или **nought**) в номерах телефонов, банковских счетах и других «длинных» числах: 25-06-08 two five oh six oh eight, либо **zero** в научном контексте: -20°C twenty degrees below **zero**.

2 В числах после 1,000 мы используем запятые.

Который час?



07.00 – It's seven o'clock 07.05 – It's five past seven 07.15 – It's quarter past seven 07,30 – It's half past seven 07.40 – It's twenty to eight

Метаматические символы и дроби

% (the percentage sign):

3% - three per cent

Простые дроби:

 $^{1}/_{2}$ – a/one half $^{1}/_{3}$ – a/one third $^{1}/_{4}$ – a/one quarter or one fourth $^{59}/_{16}$ – five **and** nine sixteenths

Десятичные дроби:

23.674 – twenty three point six seven four 0.0023 – (nought) point nought nought two three

Степени и корни:

 $x^2 - x$ squared / x (raised) to the power two $x^3 - x$ cubed

 $x^n - x$ to the nth / x to the power n $x^{-n} - x$ to the (power) minus n

 \sqrt{x} - (square) root (of) x / the square root of x

 $\sqrt[3]{x}$ - x cube root (of) x $\sqrt[n]{x}$ - nth root (of) x

Химические формулы

H₂O – pronounced 'aitch-two-oh' HCl – pronounced 'aitch-see-ell'

Выражение времени Как называть дату:

1/9/12(BrE): **the** first **of** September, twenty twelve, или September **the** first, twenty twelve 1/9/12 (AmE): **the** ninth **of** January, twenty twelve, или

January the ninth, twenty twelve

Предлоги времени

at	in	no
		preposition
- at six o'clock	- in the	- today
- at night	morning/	 yesterday
- at midnight	afternoon/	- tomorrow
- at Christmas	evening	- the day after
- at the	- in	tomorrow
weekend	December	- the day
on	- in winter	before
- on Sunday - on Monday morning - on Christmas Day - on March 8	- in 2006 - in two weeks' time - in a minute - in an hour	yesterday - last night - last week - next month - yesterday evening - tomorrow morning - this evening - this year tonight

1. Прочитайте:

1) 13 31st 1,093 45 222nd 0 52 673rd 91 588 1,000,001

2) telephone numbers:

- +7 978-122-43-57
- +7 3652-55-77-00

your telephone number

3) fractions and decimals:

 $^{1}/_{2}$ 555 $^{1}/_{11}$ $^{3}/_{8}$ 10 $^{1}/_{7}$ 17 $^{17}/_{18}$ 67 $^{6}/_{7}$

0.12 34.056 0.0075 1,001.001 56.907865

4) powers and roots, percentage:

 2^{10} 5^x 10^{17} $\sqrt{16}$ $\sqrt[3]{81}$ $\sqrt[5]{x}$ 5%; 0.54%;

5) now tell the group chemical formulas of some well-known substances.

2. Употребите правильный предлог (где это необходимо) в данных предложениях.

1. My friend was born	two o'clock		
the morning	Wednesday, the twenty-		
fifth of January, 1995.			
2. Mrs Brown is going to see her dentist			
tomorrow morning			

3. We have hols (holidays) twice a year, _____

winter and _____ summer.
4. Normally, clinics are closed _____ the weekends.

5. What is square root _____ one hundred?

6. We pronounce 16⁴ so: sixteen _____ the fourth power.

7. This woman will be operated on _____ten weeks' time.

8. Usually I am the happiest _____ Monday morning.

3. Ответьте на вопросы:

- 1. When is your birthday?
- 2. What is your date of birth?
- 3. What days are national holydays in your country?
- 4. When does your holyday start?
- 5. When is the Day of Medical Professionals in your country?
- 6. What time are you going home today?
- 7. When do you do your homework?
- 8. When did you last attend a lecture?
- 9. When did you last clean your teeth?
- 10. What is the chemical formula of water?
- 11. How many people live in Russia? in the Crimea?
- 12. What is the telephone number of your best friend? of your family physician?
- 13. How many per cent of students in your group are girls? are 18 years old? have part-time jobs?

Checklist

Оцените, чему вы научились в этом уроке. Отметьте (✓) утверждения, которые справедливы для вас.

- I can talk about different types of medical institutions providing health care
- I know the names of hospital departments and can describe hospital jobs
- I can describe the duties of a doctor in the English hospital
- I can use numerals and prepositions of time

Key Words

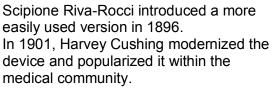
accompany v /ə`kʌmpənɪ/ admit v /əd`mɪt/ ambulance n / embjulans/ bioassay laboratory /baiə`æsei lə`bbrətri/ CBC (complete blood count) /kəm`pli:t blad change dressing /tfeind3 `dresin/ discharge v /dɪs`tʃa:dʒ/ doctor on duty / dju:ti/ drug chart /drag tfa:t/ ECG (electrocardiography) /I.lektrə,ka:dı`parəfi/ geriatric adj /,dzeri`ætrik/ give injection /ɪn`dʒek[ən/ hospital *n* / hospital/ in charge /tfa:dz/ of inpatient n / inpersent/ institution n /ɪnstɪ`tju: [ən/ intensive care unit (ICU) /in`tensiv kaa `ju:nit/ investigation n /In,vesti \ gei [ən/ outpatient *n* / autper[ent/ patient record / perfant rekad/ present v /pri`zent/ procedure n /prə`si:ʤə/ pulse rate /pʌls reɪt/ remove sutures /ri`mu:v `su:t[əz/ specimen n /`spesəmin/ staff n /sta:f/ supervise v / sju:pəvaiz/ ultrasound n / \altrasaund/ ward n /wo:d/ ward round /wo:d raund/

Просмотрите еще раз материал урока. Запишите другие слова и выражения, которые могут оказаться для вас полезными, и выучите их.

UNIT VII. MEDICAL EXAMINATION

In this unit

- describing the procedure of clinical examination of patient, its stages and essence
- formation and using of the present and past participles
 - using Passive Voice



- the development of radar and sonar during the World War II made it possible to use ultrasound for medical diagnostic purposes. Ultrasonic techniques can accurately differentiate tissue and fluid interfaces within the body, thus providing valuable information on many internal structural defects.
- in the early 1900s, the Italian radiologist Alessandro Vallebona proposed a method to represent a single slice of the body on the radiographic film. This method was known as tomography.
- The first commercially viable CT scanner
 was invented by Sir Godfrey Hounsfield in
 the United Kingdom in 1967. The first
 scanner was installed in Atkinson Morley
 Hospital in Wimbled, England, and the first
 patient's brain-scan was done on 1
 October, 1971. It was publicly announced
 in 1972.

3. Прочитайте текст об осмотре больного. Подготовьтесь к обсуждению следующих вопросов:

- History taking.
- · Methods of physical examination.
- Methods of imaging studies.





Lead-in

1. Ответьте на вопросы.

- What methods of medical examination of patients are there?
- What appliances for carrying out medical examination do you know?
- Which of them are most frequently used nowadays?
- Which of them are considered up-todate? out-of -date?

2. Знаете ли вы, что

- the microscope was invented in 1590.
 Laboratory technicians use it regularly to analyze specimens of blood, urine and tissue.
- the stethoscope was invented in France in 1816 by René Laennec at the Necker-Enfants Malades Hospital in Paris. It consisted of a wooden tube and was monaural. René Laennec was the first to propose auscultation in 1816.
- in 1895, Roentgen discovered the Xray to detect abnormalities inside the body.
- the word sphygmomanometer comes from the Greek sphygmós (pulse), plus the scientific term manometer (pressure meter). The device was invented by Samuel Siegfried Karl Ritter von Basch in 1881.

"Always listen to the patient, they might be telling you the diagnosis."

Sir William Osler

Reading

Clinical Examination

Doctors who are directly **involved** in the care of patients have four fundamental tasks:

- making a diagnosis
- discovering the cause of the problem
- determining treatment
- establishing prognosis.

Everything the clinicians do to and for the patient – includes one or another of these basic jobs.

History Taking

Progress in making the diagnosis depends on taking a good history and doing a careful physical examination.

During the course of history, the physician gathers full information about the patient: his biographical data (age, race, sex, occupation, education, habits), chief **complaints**, data on past illnesses (major acute and **chronic** diseases, operations and injuries the patient had in the past), and data about chronic illnesses of the immediate family. The way and manner the physician asks the patient questions is of particular importance.

Physical Examination

History taking is generally **followed** by **physical examination** or **clinical examination**

- the process by which a doctor **investigates** the body of a patient for **signs** of disease. Generally, there are 4 parts of physical examination:

- Inspection: looking for signs
- Palpation: feeling for signs
- **Percussion:** tapping for signs, used when doing a lung and/or gut examination.
- Auscultation: listening using the stethoscope, or in olden times, purely listening with direct ear.

Whatever part of the patient is examined, whatever disease is **suspected**, the four motions



Palpation



Percussion technique

must be done in that order. You look first then feel; when you have felt, you may tap, but not before; and last of all comes the stethoscope.

The examination will cover most of the basic systems of the body, including the heart system, lung system, gastrointestinal system and nerve system examination.

Investigations

After physical examination the physician makes an initial diagnosis which must be confirmed by laboratory findings and imaging technologies before the treatment is decided upon. The most common laboratory findings are biopsy, blood and urine testing. Imaging studies include radiograghy (X-ray), ultrasound investigation, computed tomography (CT), electrocardiography (ECG), electroencephalography (EEG), magnetic resonance imaging (MRI).

It is said that over 80% of diagnoses are made on history alone, a further 5-10% on examination and the remainder on investigation. Whether this saying is true or not may be open to debate but it is clear that history and examination skills remain at the very core of clinical practice.

Lung auscultation



Vocabulary Practice

- 1. Объясните значение выделенных слов из текста на предыдущей странице.
- 2. Расшифруйте аббревиатуры. ICU, A&E, EEG, MRI, CT, ECG.
- 3. Найдите определения для данных слов.

1. examination	a. a diagnostic procedure	
	designed to determine the	
	density of a part by the sound	
	produced by tapping the	
	surface with the finger or a	
	plessor	
2. palpation	b. listening to the sounds	
	made by various body	
	structures and functions as a	
	diagnostic method, usually	
	with a stethoscope.	
3. percussion	c. any investigation or	
	inspection made for the	
	purpose of diagnosis	
4. auscultation	d. examination with the	
	hands, feeling for organs,	
	masses, or infiltration of a	
	part of the body, feeling the	
	heart or pulse beat,	
	vibrations in the chest, etc.	

4. Подберите синонимы к данным словам.

information	
investigations	
symptom	
radiography	
touch	
gut system	

5. Составьте словосочетания: *глагол* – *прилагательное* – *существительное*

to cause	acute	pains
to complain of	chronic	illness
to prevent	physical	symptoms
to develop	unusual	complaints
to describe		suffering
		injuries

6. Словообразование. Образуйте как можн	1(
больше слов с терминоэлементом -graphy.	
Объдените их значение	

e.g. angio graphy	 	
	 	 _
	 	_

7. Закончите предложения, используя слова	из
таблицы, синонимы к которым даны в	
скобках.	

causes	sign	chronic
involves	palpate	confirm
specimens	auscultation	suspects
initial		

1. Radiography exposing a part of the body to a s radiation to produce an image of t	
organs. 2. X-ray is the commonest diagno	stic
examination used to	ommonest
4. Headaches may be a of stress.	_(indication)
5. The doctor may decide to have or tissue (sampl 6. It is difficult to cure	blood, urine es) analysed (continual)
bronchitis. 7 (list one of the most important diagnost	stening) is
for examining such organs as lung vessels.	
8. To (touch) mean with hands.	
9. The doctor that the patient has problems with system.	
10. The physician should be able (primary) dia examination of a patient.	to make an agnosis after
8. Найдите «лишнее» слово. 1. specimen, illness, pattern, sam 2. chronic, acute, constant, perma continual	
3. involve, consist of, include, con 4. initial, first, primary, final, eleme 5. investigate, examine, research, remain	entary
9. Закончите предложения, образо или past participle от глаголов, да скобках.	
The initial diagnosis is (confirm) by laboratory findings.	
2. I went to the lecture but I felt3. It was verynot to get the results of blood test	
4. When the surgeon performed h	
5. Doctors who are directly (involve) in the care of patients ha fundamental tasks.	
	(surprise).

Language Development

 Закончите предложения. The main tasks of every physician involved in patent care are 				
Case history includes information about				
3. The main parts of physical examination are				
4. Laboratory findings include				
5. The most common imaging studies are				
2. Прочитайте предложения. Задайте вопросы к словам, выделенным курсивом. 1. The activity of the heart can be studied by means of electrocardiography.				
2. The x-ray examination was necessary to confirm the initial diagnosis.				
3. The doctor found a small lump on the patient's head.				
4. The patient suffered from polio <i>in his</i> childhood.				
5. Biopsy is necessary in case of tumour removal.				
6. <i>The tumour</i> was found out by x-ray examination.				
7. The presence of blood or protein in urine indicates <i>some pathology</i> .				
<u> </u>				

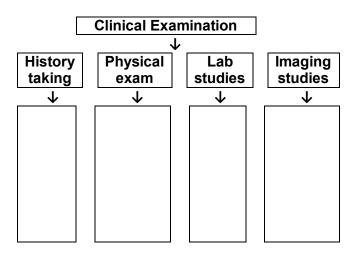
- 3. Просмотрите текст еще раз и ответьте на вопросы.
- 1. What tasks does the doctor have before treating the patient?
- 2. What are the main methods of physical examination of the patient?
- 3. What is the sequence of these methods?
- 4. What is the initial diagnosis confirmed by?
- 5. What are the most common laboratory procedures?
- 6. What do imaging studies include?

4. Проект.

Choose one of the specialties.

neurosurgeon, oral surgeon, cardiologist, dentist, alternative therapist, psychiatrist

Fill in the table for the chosen specialty (use the Internat or ask working specialists).



Describe clinical examination of a patient who came to see such a specialist for the first time. You may consider a particular patient's problem as an example.

Grammar in Use

Past Participle

Для правильных	Для неправильных
глаголов	глаголов
+ ed	The 3rd form of
	the verb
to try – tri ed	to freeze – frozen
to save – sav ed	to bring – brought
to include – includ ed	to come – come

Мы используем Past Participle:

1. В качестве прилагательного:

The **examined** patient was in a good condition.

2. Чтобы образовывать времена группы **Perfect** и пассивный залог (the passive voice):

The physician has just **examined** her.* The patient was **examined** yesterday.

* Времена группы **Perfect** мы будем изучать позже.

Present Participle

Для любых глаголов		
+ ing		
to improve – improv ing		
to attend – attend ing		
to die – d ying		

Мы используем Present Participle:

1. В качестве прилагательного:

The examining doctor is a good specialist.

2. Чтобы образовывать времена группы **Continuous**:

The physician was **examining** patient S. the whole morning.

Внимание: Обратите внимание на разницу в значении между Present и Past Participle: The trip was tiring. (Путешествие было утомительным)— We were tired after the trip. (Мы были уставшими после путешествия.)

1. Образуйте Past или Present Participle от данных глаголов и используйте их в следующих предложениях.

1. to determine		
Now we know the cause of the disease. The		
cause was		
Cost of treatment was not a		
factor for me.		
2. to confirm		
At last the scientist received the		
data and was able to finish his repo	rt.	
All theories should be	on practice.	
3. to protect		
Dolphins are a	species.	
The WHO is working hard on		

measures against spread of malaria

The Passive Voice

Present Simple Passive

Positive/Negative						
I			am			
He / She	/ It		is	(not)	examined
We / You / They		are			every day.	
	Questions					
	am	I				
(Where)	is	he it	/ she /		examined	
	are we / you / they		y day?			

Past Simple Passive

i dat omipie i daare					
Positive/Negative					
I / He / Sh	ne /	was	5		
It				(not)	examined
We / You	/	wei	re		yesterday.
They					
	Questions				
	was			I / he /	
(Where)				she / it	examined
	were	9	W	e / you /	yesterday?
				they	

Future Simple Passive

r dtare emiple i deelve					
	Positive				
I / He /	I / He / She / It will be examined tomorrow.			tomorrow.	
/ We / `	You /				
They					
		Nega	ative		
I / He /	She /	won't	be exami	ned	
It / We	/ You	(will	(will tomorrow		
/ They		not)	not)		
	Questions				
		I / he /	be	tomorrow?	
(Why)	will	she / it /	examined		
		we /			
		you /			
		they			

Мы используем пассивный залог:

- 1. Когда мы не хотим брать ответственность за что-либо: *The patient will be examined during the ward round.*
- 2. Когда мы хотим сосредоточить внимание на самом действии: *The MRI* was performed last Monday.
- 3. Когда мы не хотим использовать подлежащие типа они, кто-то, etc.: In what order are patients seen in the Emergency Department?

2. Употребите глаголы, данные в скобках, в Simple Passive.
History taking generally (to follow) by physical examination.
2. Every time fracture (to suspect), x-ray (to perform).
3. Yesterday blood pressure in this patient (to take) three times.
4. As biopsy takes quite long, the diagnosis (to confirm) next Monday.
5. What medical appliances(not to use) anymore nowadays?
6. This patient's specimens of blood (to analyse) in an hour.
7. These students (to teach) the main principles of palpation last year.
8. The methods of tomography (to propose) by Alessandro Vallebona in the early 1900s.
3. В каждой паре предложений употребите один глагол в active voice, другой в passive voice.
1. to suspect The experienced physician asthma as soon as he had a look at the patient. If fracture, x-ray is performed immediately.
2. to prevent Thanks to the efforts of the WHO, spread of the epidemics in 2000 Unfortunately, all the taken efforts not spread of the grippe last winter.
3. to involve Many patients in the research next year. A surgeon's job long hours and hard work.
4. to accompany Fractures not usually by bleeding. Both students and junior doctors usually the professor during his
ward rounds.

Checklist

Оцените, чему вы научились в этом уроке. Отметьте (✓) утверждения, которые справедливы для вас.

- I can talk about the procedure of clinical examination of patients
- Ican express the results of the physical examination of patients
- I can form and use the present and past participles
- I can use the Passive

Key Words

auscultation n /ɔ:skəl`ter[ən/ biopsy n / barapsi/ blood testing /blad `testin/ cause n, v/ko:z/ chronic adj /`kronik/ complain v /kəm`plein/ complaint *n* /kəm`pleint/ computed tomography (CT) /kəm`pju:tid tə`mpqrəfi/ confirm v/kən`f3:m/ electroencephalography (EEG) /ɪ,lektrəuɪn,sefə`lɒgrəfi/ follow v/`folau/ history taking /`histəri `teikin/ imaging studies /`imidsin`stadiz/ initial adj /ɪ`nɪʃəl/ inspection adj /in`spek [ən/ investigate v/in`vestigeit/ involve v /In`vplv/ laboratory findings / la`boratrı `faındıns/ magnetic resonance imaging (MRI) /mæg`netik `rezənəns`ımıdzın/ palpation n /pəl`peɪʃən/ percussion n /pə ka [ən/ physical examination / fızıkəl ıq,zæmı neı (ən/ radiography (X-ray) /,reidi pgrəfi/ sign n /saɪn/ suspect v /sə`spekt/ ultrasound investigation / \altrasaund ın,vestı`geı[ən/ urine testing /`juərın `testin/

Просмотрите еще раз материал урока. Запишите другие слова и выражения, которые могут оказаться для вас полезными, и выучите их.

UNIT VIII. AT A CHEMIST'S

In this unit

- · talking about different types of pharmacy
- describing the work of chemist's shops
- describing types and forms of medications and ways of their storage
- studying the structure of a drug prescription
- Impersonal sentences



Lead-in

1. Проанализируйте данные группы слов. Различаются ли они по значению?

pharmacy → chemist's (shop) → drugstore a pharmacist → a chemist → a druggist medicine→drug→remedy→preparation

2. Ответьте на вопросы:

- Where can you get medicine?
- When do you go to the chemist's?
- What medicine do you often get at the chemist's?
- What do you need to get tablets, pills, drops?
- What is a prescription?





The mortar and pestle is an international symbol of pharmacists and pharmacies.

R is a symbol meaning "prescription". It is sometimes transliterated as "R_x" or just "Rx". This symbol originated in medieval manuscripts as an abbreviation of the Late Latin verb *recipe*, which means "take..." and medieval prescriptions invariably began with the command to "take" certain materials and compound them in specified ways. Today, when a medical

"R", he or she is completing the command.

3. Прочитайте текст «В аптеке». Подготовьтесь к обсуждению следующих вопросов:

practitioner writes a prescription beginning with

- Types of pharmacies
- Structure of a community pharmacy
- Types of dosage forms



(According to Sharif Kaf al-Ghazal)

Reading

AT A CHEMIST'S

Pharmacy is the field of health sciences focusing on safe and effective use of medications. The word *pharmacy* derives from Greek "pharmakon", meaning "drug" or "medicine". A place where drugs are dispensed is called a chemist's (shop), or pharmacy, or drugstore. In the USA and Canada drugstores commonly sell not only medicines, but also sweets, cosmetics, magazines, as well as light refreshments and groceries.

Pharmacists, also known as **druggists** or **chemists**, are healthcare professionals who practice in pharmacy.

Historically, the fundamental role of a pharmacist as a healthcare practitioner was to **distribute** drugs to doctors for treatment of their patients. Nowadays, pharmacists advise patients and health care providers on the selection, **dosages**, **interactions**, and **side effects** of medications, and act as a learned intermediary between a prescriber and a patient. Pharmacists undergo university-level education to understand biochemical mechanisms of action of drugs, drug uses and therapeutic roles, side effects, potential drug interactions, *etc.*

Different countries require pharmacists to hold either a Bachelor of Science in Pharmacy or Doctor of Pharmacy degree.

There are a lot of different types of pharmacies from clinical or hospital ones (which can be found at hospitals and clinics, of course) to the most exotic ones, like military pharmacy (where no civil people are allowed to work) or **nuclear** pharmacy which focuses on preparing **radioactive** materials for diagnostic tests and for treating certain diseases.

But the most popular type of chemist's shops is surely community pharmacy. The modern community pharmacy has the following areas:

- a dispensary is the area of a pharmacy where drugs are stored and prepared for dispensing and distribution and to which the public has no access;
- a prescription area is equipped with a
 prescription counter where communication
 between customers and pharmacists takes
 place. The patient can buy medicines here
 by prescription only. These are poisonous,
 psychotropic, narcotic drugs which are
 potent and can be dangerous if taken in an
 overdose.
- a private counselling area is a separate room or part of the room where clients may discuss their personal health issues with qualified pharmacists;
- a waiting area should provide enough space and comfortable seats for those who are waiting for their turn;
- a storage area has space for storing all types of medicines. All the drugs should be stored on or in shelves, drawers of drug cabinets; at that medications for external use are kept separately from internal and injectable drugs and non-prescription preparations.

In our country a chemist's will provide you with all kinds of drugs in different dosage forms. **Dosage forms** are a mixture of active drug components and non-drug components. The most common dosage forms are **solid** (**pills**, tablets, **capsules**, or **suppositories**), **semisolid** (creams, ointments) and liquid (syrups, spirits, elixirs, tinctures, solutions, sprays, aerosols, emulsions, extracts). Many drugs described as **over-the-counter** (OTC) drugs are available without prescription. Others require a health care provider's prescription for use.

Apart from medicines you can buy other things and devices at a chemist's like **medicine droppers**, thermometers, **hot water bottles**, **mustard plasters**, sphygmomanometers, scales, *etc*.

Vocabulary Practice

1. Объясните значение выделенных слов из текста на предыдущей странице.

2. Найдите определения для данных слов и словосочетаний:

 a. written or signed order for a drug with directions for administration
b. a person who helps in diagnosing or preventing or treating illness
c. an amount of drug or medicine to be taken at one time or over a period
d. an undesirable effect
e. an excessive and dangerous dose of a drugf. a person authorized to dispense medicinal drugs

3. Что обозначают данные аббревиатуры?

C: 110 0005Hu luiot guilli	210 400 0 0 2 2 2 4 4 5 2 2 1
1. cap	a. prescription
2. elix	b. tablet
3. MED(s)	c. suspension
4. OTC	d. tincture
5 . Rx	e. ointment
6. supp	f. elixir
7. susp	g. infusion
8. tab	h. over-the-counter
9. tinc	i. suppository
10. ung	j. medicine(s),
	medication(s)
11. infus	k. capsule

4. Закончите предложения, используя слова из таблицы, синонимы к которым даны в скобках.

side effects	dose	interacts	
pills	druggist	capsule	
chemist's	suppository	overdose	
1. The maximal _		of paracetamol	
for an adult is 4 (g daily. (amount))	
2. A patient took		which	
had a measured	amount of medic	cine inside.	
(a small contain	ier)		
3. The majority of	f medicines may	have	
(bad effects)			
4. A	should be	e placed into the	
rectum and left to dissolve gradually. (a small			
piece of solid m	nedicine)		
5. Some women	take	to avoid	
pregnancy. (tablets)			
6. She was admitted to hospital after taking an			
of sleeping pills. (too much of a			
drug)			

7. Perfumenatural chemicals. (has an effective of the control of the contr	with the skin's
8. My friend is a	, his job is to
prepare and sell medicines. (ch	emist)
9. You can buy medicine droppe	
plasters, thermometers, scales	and other things
at a	(drugstore).
5. Распределите данные лекарс по группам:	твенные формы
pills, creams, syrups, aerosols, capsules, suppositories, elixirs, tinctures, emulsions, solutions,	spirits, ointments,
Solid:	
Semisolid:	
Liquid:	
6. Составьте словосочетания со таблицы. Используйте каждое один раз.	

safe	external
fundamental	injectable
potential	non-prescription
counselling	common

radioactive

1	dosage
2	preparation
3	drug
4	use
5	area
6	medicine
7	drug interaction
8.	role
9.	material
10	use

potent

7. С какими существительными могут употребляться данные группы слов?

Area, pharmacies, drugs				
1.	2.	3.		
poisonous	clinical	prescription		
psychotropic	hospital	private		
narcotic	military	counselling		
potent	nuclear	waiting		
dangerous	community	storage		

Language Development

1. Изучите рецепт; затем ответьте на вопросы.

MANITOBA Pharmac 204 Manitoba Street Winnipeg MB M2B 2Y2 Canada Store # 0001 Ph	-	4-2004	
Rx#2042042 Ref:0 auToba Man TAKE 1 CAPSULE 1 TIMES DAILY UNTIL TIMES DAILY UNTIL TO FINISHED (ANTIBIO	HREE		(# 24242424
# APO-AMOXI 500MG # AMOXICILLIN 500MG # RED/YEL/ELLIP/APO{500} 30 CAP 14 Oct 2007	Total:21.43	APX 0062	8123 EDS
Important: Take this medication for the prescribed duration.			

Important: Take this medication for the prescribed duration.
What is the name of the pharmacy? Pharmacy
2. What is the address of the pharmacy? 204 Manitoba, Winnipeg MB M2B 2Y2 Canada
3. What is the store number of the pharmacy? Store:0001
4. What is the phone number of the pharmacy? Phone:
5. What is the prescription number? Rx: #
6. What is the physician's name? Dr
7. What is the date that the prescription was filled?14, 2007
8. What is the name of the person for whom the drug is prescribed? Toba
9. What is the brand name of this drug? APO
10. What is the name of the medication or the main ingredient (generic name)?

_ is the generic _____

the drug.

11. What is the strength of the medication?
12. What do the letters APX mean? The indicate the manufacture's/company's code.
13. What does the number listed below the company code represent? The indicates the drug identification number (DIN).
14. How much is in the package? caps (capsules)
15. What are the directions or instructions for taking the medication? 1 capsuletimes daily unt(antibiotic).
16. Are there any cautions or warnings on the label? Important: Take this medication for the
Keep out of reach of

17. Do prescription drug labels often include any additional information that is not on this one?

Expiry date, refill information, and additional information, on stickers, such as Take with food.

2. Какая информация обозначена числами на этом рецепте? Соотнесите с вопросами из упражнения 1.



3. Проект.

Write out a prescription of your own. Choose a medication which you know about. Consult the Guide to Pharmacology (an open-access website). Be ready to talk about dosage, interactions, and side effects of this medication.

4. Закончите предложения: 1. The main types of pharmacy are	6. Прочитайте рецепт. Используя данную информацию, закончите диалог.
	Generic name: Aspirin
	Therapeutic classification: Analgesic
2. The main areas of the community pharmacy	Indication: pain, heart attack, fever
are	Contraindication: blood disorder, liver or
	kidney impairment, hypersensitivity.
	Pregnancy Category: D (potential benefits
2. A paragraphs dispanded drugs is a	may warrant use of the drug in pregnant women
3. A person who dispenses drugs is a	despite potential risks.
·	Dosage: 325-650 mg 4-6 hourly. Max: 4g/day
	The way of taking: It comes as a tablet to take
4. Liquid dosage forms are	by mouth, with food.
	Warnings and Precautions: caution in
5. Solid dosago forms includo	<u> </u>
5. Solid dosage forms include	patients with stomach pain, ulcers, anemia,
·	kidney or liver diseases, allergy.
6. Semisolid dosage forms are	Avoid alcohol consumption.
	It should not be given to children.
	Side effects: nausea, vomiting, stomach pain,
5. Просмотрите текст еще раз и ответьте на	allergic reactions.
• •	Storage condition: store it at room
вопросы:	temperature.
1. What is a chemist's?	At the Pharmacy
	Customer: Can you help me? I need Aspirin.
	Pharmacist:
2. Who works at a chemist's? What is their role?	
2. Who works at a shormore. What is their role.	C: I have a headache. What is the action of
	Aspirin? Can I get a relief?
	Ph:
3. What types of pharmacy do you know?	C: How should I take it?
	Ph:
	C: Can I take it with food?
4. What areas does a community pharmacy	Ph:
have?	O. O. a. I. defeats also also
	C: Can I drink alcohol?
	Ph:
	C: What is the decade of the drug?
5 M/hana aga way huu madiainaa hu maaanintian?	C: What is the dosage of the drug?
5. Where can you buy medicines by prescription?	Ph:
What drugs are sold by prescription only?	O. O. St. b. a. Antonia have abilidade a conditional and a
	C : Can it be taken by children and pregnant
	women?
	Ph:
6. What dosage forms do you know?	C: What are possible prescutions?
Give examples of each dosage form.	C: What are possible precautions?
OIVE GRAITIPIES OF EACH GOSAGE TOTTI.	Ph:
	C: Should Leynest any side effects?
	C: Should I expect any side effects?
	Ph:
	C: Should I store it in a special place?
	Ph:

Grammar in Use

Безличные предложения

			• • •
It is	said considered		the symbol Rx originated in medieval
	thought		manuscripts.
They	say consider	.	the first drugstores were opened in
They	think	(that)	Baghdad in 754 AD.
	says		a lot of antihistamine
One	considers		drugs have
	thinks		undesirable side
			effects.

В безличных предложениях могут также употребляться глаголы: *to believe*, *to assume*, *to suppose* и другие. Безличные предложения переводятся на русский язык так: *считают* (*считается*), *говорят*, *полагают*, и т.д. **Безличные предложения** используют:

1. Чтобы сообщить о чем-то, в чем вы не уверены:

They say / It is said / One says (that) soon people will live for 150 years.

2. Чтобы ваш совет звучал менее категорично:

They think / it is thought / One thinks (that) people should read instructions carefully before taking a medicine.

- 1. Ответьте на вопросы, используя безличные предложения с данными словами.
- e.g. Who is the best student in your group? It is believed that Ruslan is the best student in our group.
- 1. What should a person do if (s)he has a cold?

(one/assume).
2. Why can't some drugs be bought without a
prescription?
(they/consider).
3. Where and when were the first drugs prepared?
(it/believe).
4. What is the most difficult subject in the 1st year?
(they/think).
5. What should a student do if (s)he has a lot of absences in English?
(it/suppose).

Checklist

Оцените, чему вы научились в этом уроке. Отметьте (\checkmark) утверждения, которые справедливы для вас.

- I can talk about different types of pharmacies
- I can describe the work of chemist's shops
- I can describe different types and forms of medication and ways of their storage
- I can read a drug prescription label
- I can use the impersonal sentences

Key Words

capsule n / kæpsju:l/ chemist BE n /`kemist/ = druggist AE n/`dragist/ dispensary n /dis`pensəri/ dispense v /dis`pens/ distribute v /dı`strıbiu:t/ dosage n / dausid3/ dosage form / dausida fo:m/ drug cabinet /drag `kæbinət/ elixir n /ı`lıksıə/ interaction *n* / intə`rek[ən/ liquid n, adj /`likwid/ medicine dropper /`medisən `drapə/ nuclear adj /`nju:klɪə/ /tnemtnic / n tnemtnio overdose n /`auvadaus/ over-the-counter (OTC) drug / əuvəðə kauntə dr_Aq/ pharmacist n / fa:məsist/ pharmacy / fa:məsi/ = chemist's (shop) BE /`kemists (fap)/ = drugstore AE /`dragsto:/ pill *n* /pɪl/ semisolid n. adi / semi`salıd/ side effect /said 1`fekt/ solid n, adj /`salıd/ solution n /sə`lu:[ən/ spirit *n* / spirit/ storage n / sto:rids/ store v. n /sto:/ suppository n /sə`pazıtrı/ syrup *n* /`sɪrəp/ thermometer *n* /θə`mamıtə/ tincture n / tinktfə/

Просмотрите еще раз материал урока. Запишите другие слова и выражения, которые могут оказаться для вас полезными, и выучите их.

UNIT IX. MEDICATION

In this unit

- · types of medications
- routes of drug administration
- understanding directions for drug use
- Infinitive and its functions



Lead-in,

- 1. Укажите, к какой группе относится каждый из этих препаратов.
 - a. Paracetamol
 - ь. Cyclizine
 - c. Salbutanol
- a. Aspirin
- e. Amoxicillin
 - f. Ranitidine
- g. Chlorphenamine

н. Diazapam

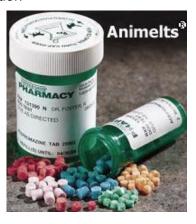
- 1. ___ antibiotic
- 2. ___ analgesic
- 3. ___ antiemetic
- 4. ___ sedative/hypnotic
- 5. ___ gastrointestinal
- 6. ___ antihistamine
- 7. ___ cardiovascular
- 8. ___ respiratory
- 2. Используя данные выражения, скажите, когда применяют эти медикаменты: It is used to ... It's prescribed in order

to ... It helps ...





- 3. Ниже приведены некоторые правила по выписке лекарственных средств. Обсудите, почему они важны и к чему может привести их несоблюдение.
 - Always check a formulary (a list of medicines) when prescribing to children.
 - Consult your seniors when in doubt.
 - Check if the patient has allergic reactions to drugs.
 - Check if the patient is a responsible person.
 - Check to alternatives to drugs.
- 4. Как вы думаете, какие еще рекомендации следует выполнять при выписке препаратов?
- 5. Прочитайте текст и подготовьтесь к обсуждению следующих вопросов:
 - Types of drugs
 - Methods of giving medication
 - Side effects of drugs
 - · Role of medication



Reading

Medication

A drug is a substance that changes body functions. It is used in the diagnosis, treatment and prevention of disease in humans.

Traditionally, drugs were derived from natural plants, animals, and mineral sources. Today, most are manufactured synthetically by pharmaceutical companies. A few, such as certain hormones and enzymes are produced by genetic engineering.

Drugs may be called by either their generic or their trade names. A **generic name** is usually a simple version of the chemical name for the drug and is not capitalized (e.g., *lidocaine hydrochloride*). The **trade name** (brand name, proprietary name) is a registered trademark of the manufacturer and is written with an initial capital letter. The same drug may be marketed by different companies under different trade names. For the above mentioned drug these include *Akten, Anestafoam, Lida Mantle, Lidocaine, Lidocream, Lidoderm, Topicaine, Xylocaine, etc.*

One of the most striking qualities of drugs is the diversity of their actions and effects on the body. Depending on their effect on the body, the drugs are divided into different categories, for example:

analgesics (painkillers) relieve pain; anaesthetics reduce or eliminate pain; anticoagulants prevent coagulation and formation of blood clots;

antiemetics relieve symptoms of **nausea** and prevent **vomiting**;

antihistamines are used when treating allergies; antihypertensive drugs lower blood pressure; anti-inflammatory drugs counteract inflammation and swelling;

anti-infective drugs kill or prevent the growth of infectious organisms;

antineoplastics destroy cancer cells; diuretics promote excretion of water; sedatives/hypnotics induce relaxation, sleep; psychotropics affect the mind changing mental activity, state or behaviour; etc.

Drugs are introduced into the body by several routes. They may be taken by mouth (orally); given by injections into a vein (intravenously), into a muscle (intramuscularly), or beneath the skin (subcutaneously); placed under the tongue (sublingually); inserted in the rectum (rectally) or vagina (vaginally); instilled in the eye (by the ocular route); sprayed into the nose and absorbed through the nasal membranes (nasally); breathed into the lungs, usually through the mouth (by inhalation); applied to the skin (cutaneously). Each route has specific purposes, advantages, and disadvantages.

Most drugs have potential adverse effects or **side effects**, *i.e.*, any secondary, undesirable effect. In addition there may be contraindications, or reasons not to use a particular drug for a specific individual based on that person's medical conditions, current medications, sensitivity, or family history. Because drugs given in combination may interact, they produce a greater effect than either of the drugs acting alone. They may also react adversely with certain foods or substances, such as alcohol or tobacco. The real challenge for a physician is to take into account all these possibilities and to administer the most effective treatment for each patient.

In general, drugs are of vital importance today. Thus, Ann Halliday, a journalist, calls them one of the seven wonders of the modern world. She thinks that nothing has done more for the comfort and happiness of the mankind than the advance of medical knowledge! Humble penicillin has saved millions of lives. Smallpox and poliomyelitis are now virtually extinct. Illnesses such as diabetes, hypertension, and mental depression are effectively controlled with modern drugs. Average life expectancy in Europe has risen dramatically over the last hundred years, from about 50 years in 1906 to about 75 years today.

Vocabulary Practice

1. Объясните значение выделенных слов из текста на предыдущей странице.

2.а. Словообразование. Запомните значение

	данных терминоэлементов.			
Word	Meaning	Example		
Part				
PREFIXES	3			
anti-	against	anti-inflammatory		
		anti-infectious		
contra-	against	contraindication		
		contraceptive		
counter-	opposite	counterpoison		
		counterdepressant		
SUFFIXES				
-lytic	dissolving	anxio lytic – agent		
	reducing	reducing anxiety		
	loosening			
-tropic	acting on	ino tropic – acting		
		on the force of		
		muscle		
		contraction		
		(ino means fiber)		
ROOTS	1			
alg/o,	pain	algesic - painful		
algio				
algesi/o				
chem/o-	chemical	chemo therapy –		
		treatment with		
		drugs		
hypno-	sleep	hypnosis – a		
		mental state like		
		sleep in which a		
		person's thoughts		
		are easily		
		influenced by smb		
pyr/o-,	fever	antipyretic -		
pyret/o		counteracting fever		
tox/o,	poison,	toxic - poisonous		
toxic/o	toxin			
vas/o	vessel	vasomotor –		
		changing vessel		
		diameter		

b. Используя вышеприведенные приставки, подберите антонимы к данным словам:

pyretic	
indicated	
inflammatory	
balance	
septic	
lateral	
coagulant	
depressant	
stimulant	

3. Объясните значение данных аббревиатур, применяемых при выписке лекарств.

The frequency of drugs:			
ac	before meals (Latin, ante cibum)		
рс	after meals (L., post cibum)		
bid	twice a day(L., bis in die)		
tid	three times per day (L., ter in die)		
qid	four times a day (L., quarter in die)		
qd	every day (L., quaqer die)		
qh	every hour (L., quaqer hora)		
1-4h	every 4 hours		
prn	as needed, as required (pro re nata)		
The route	e of administration		
IM	intramuscular(ly)		
IV	intravenous(ly)		
SC	subcutaneous(ly)		
PO	by mouth		
PR	R (per rectum) by		
	rectum		
INH	by inhalation		
Measurements			
mg	milligram		
μg	microgram		
ml	millilitre		

4. Работа в парах. По очереди читайте данную таблицу. Произносите аббревиатуры полностью.

Drug	Dose	Freq	Route	24 h
				Max
paracetamol	1 g	qid	РО	4 g
loperamide	4 mg	prn	РО	16 mg
ranitidine	150 mg	bid	РО	300mg
atorvastatin	10 (10-	qd	РО	80 mg
	80 mg)			

- e.g. Give the patient 1 gram of paracetamol four times a day, by mouth, up to a maximum of 4 grams.
- 5. Составьте предложения из данных слов, расположив их в нужно порядке.
- 1. day / needs / take / a / to / meals / two / twice / she / tablets / before.
- 2. Smith / what / is / for / Penicillin / necessary / dosage / of / Mr?
- 3. medicine / he / often / need / does / his / how?
- 4. each / drop / should / twice / put / one / into / eye / a / be / day.

6. Подберите подходящее определение для каждого термина.

пилдого горинги		
 sedative antiemetic antineoplastic psychotropic syringe ampule emulsion 	a. relieving nausea b. an instrument for injecting fluid c. a mixture of liquids d. a small glass container for liquid medicine e. causing relaxation f. agent that destroys cancer cells g. acting on the mind	
7. Тест. Выберите на	иболее подходящий ответ:	
1. Another term for tra	ide name is:	
a. indicated nameb. generic namec. prescription name	d. chemical namee. brand name	
2. An analgesic is use	ed to treat:	
a. diarrheab. arrhythmiac. psychosis	d. paine. thrombosis	
3. A drug that is admir	nistered cutaneously is:	
a. inserted with the cb. placed under the tc. applied to the skin	ongue e. swallowed	
4. Drug administered as:	by injection is described	
a. partialb. instilledc. encapsulated	d. boluse. parenteral	
8. Напишите термин	для каждого определения:	
1. counteracting fever	·	
2. dissolving blood clo	ots	
3. one who prepares,	sells or dispenses drugs -	
4. one who studies poisons		
5. using drug through	the skin	
6. the way of breathing in the drug through the		

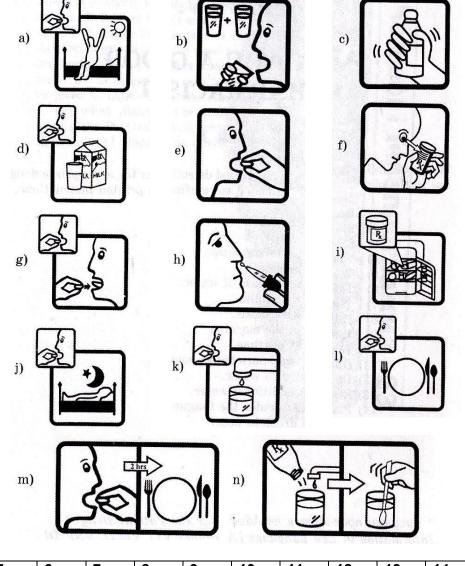
mouth -

Language Development

1. Просмотрите текст еще раз и ответьте на вопросы:
1. What is a drug?
2. What names do drugs have? What do their names mean?
3. What are drugs made of?
4. What types of drugs do you know? What is their effect on the body? Give examples.
5. How are drugs introduced into the body?
6. What is a side effect?
7. What may change the effect of drug?
8. Why are drugs so important in our life? Give the examples.
9. What diseases have been eliminated due to drugs?

2. Подберите к следующим рекомендациям по применению лекарственных средств соответствующие пиктограммы, которые делают печатные инструкции более яркими и запоминающимися.

- 1. Read the label.
- 2. Shake well.
- 3. Store in refrigerator.
- 4. Take by mouth.
- 5. Take with glass of water.
- 6. Take with milk.
- 7. Take with meals.
- 8. Take in the morning.
- 9. Take at bedtime.
- 10. Take two hours before meals.
- 11. Dilute with water.
- 12. Drink additional water.
- 13. Dissolve under the tongue.
- 14. Place drops in nose.



1	2	3	4	5	6	7	8	9	10	11	12	13	14
f	·				·	·							

3. Работа в парах. Обсудите с партнером, страдали ли вы или кто-то из ваших близких от данных проблем. Какое лечение вам назначили? Оказалось ли оно эффективным?

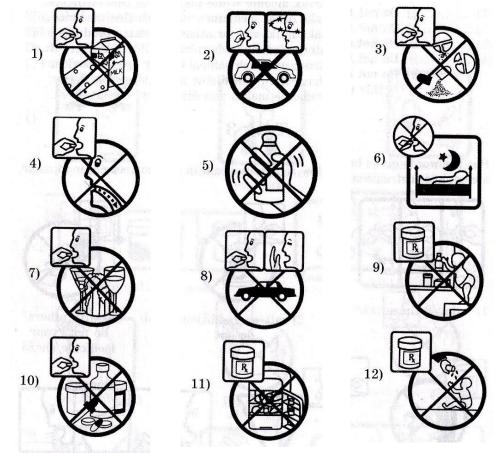
- 1. an infection
- 2. a cut
- 3. an insect bite
- 4. constipation
- 5. obesity
- 6. vitamin deficiency
- 7. a burn
- 8. an allergy
- 9. toothache
- 10. stress due to too much homework

4. Закончите предложения, используя названия групп препаратов из таблицы.

a painkiller	an antibio	otic	a supplement				
a sedative	an inocul	ation	a laxative				
a stimulant	an antihis	stamine					
an anti-inflam	matory	an ant	idepressant				
1	_ kills bac	kills bacteria and other germs.					
2.	_ relieves	pain.	-				
3	_ reduces	swellin	g.				
4			wel movements.				
5	orovides a	substa	nce that the body				
lacks.							
6	_ treats al						
7			ty in the body.				
			extreme sadness.				
9	_ makes y	ou rela	xed and sleepy.				
10protec	ts you aga	ainst infe	ectious diseases.				

5. Соотнесите пиктограммы и инструкции о том, чего не следует делать при приеме лекарственных препаратов.

- a. Do not swallow.
- b. Do not shake.
- c. Do not refrigerate.
- d. Do not take at bedtime.
- e. Do not give medicine to babies.
- f. Do not drink alcohol while taking this medicine.
- g. Do not take other medicines with this medicine.
- h. Do not take milk with or other dairy products.
- i. Do not store medicine where children can get it.
- j. Do not break or crush tablets or open capsules.
- k. Do not drive if this medicine makes you sleepy.
- I. If this medicine makes you dizzy, do not drive.



1	2	3	4	5	6	7	8	9	10	11	12
h											

6. Работа в парах. Студент А выбирает информацию, относящуюся к препарату Moxilox, студент В – к препарату Fatigin. Определите, к какой группе можно отнести каждый из этих препаратов.

- 1. Shake bottle well before use.
- 2. Swallow whole do not break, crush or chew.
- 3. For relief of sleeplessness.
- 4. May cause vivid dreams and nightmares.
- 5. Do not drive or operate machinery.
- 6. Use dosing cup to measure 5 ml.
- 7. May cause sleeplessness.
- 8. 60 mg in 3 x 20 mg tablets.
- 9. Do not take before going to bed.
- 10. Taken for fatigue and sleepiness

Student A.

loxi			

indications (what it's for)
liquid dosage
instructions
side effects
warning
Ctudent D

Student B.

Fatigin for tiredness

g						
indications (what it's for)						
solid dosage						
instructions						
side effects						
warning						

What are the new methods of introduction of medications? What are their advantages/ disadvantages? How soon will they be available in hospitals? Prepare a short speech or essay.

Grammar in Use

Инфинитив и его функции Простой инфинитив

Simple Active	Simple Passive
the verb in a	to be + 3 rd form of the
dictionary	verb
to check	to be check ed
to consult	to be consult ed
to give	to be given
to take	to be taken
to destroy	to be destroy ed

Внимание:

- **1.** В некоторых предложениях *to* пропускают, например, после модальных глаголов:
- e.g. You **should check** the alternatives to drugs.
- **2.** Чтобы образовать **отрицательную** форму инфинитива, мы ставим **not** перед ним:
 - e.g. I came here not to watch, but to help.

Инфинитив с частицей *to* используется:

- 1. Чтобы обозначить <u>цель</u> действия (*'to'* синонимично *'in order to' (чтобы)*):
- e.g. Antihistamines are used to treat allergies.
- 2. В качестве подлежащего:
- e.g. **To choose** the proper drug for each patient is the real challenge for a physician.
- 3. В качестве дополнения:
- e.g. They expected **to be given** more books on this topic.
- 4. В качестве определения:
- e.g. Do you have any nice book to read?
- 5. После прилагательных в таких конструкциях:
- It is + прилагательное + to-инфинитив e.g. It is challenging to work as a surgeon.
- It is + прилагательное + for кого-либо + to-инфинитив.
 - e.g. **It is** hard **for** students **to do** everything they should.
- It is + прилагательное + of кого-либо + toинфинитив.
 - e.g. **It is** unkind **of** the professor **to put** me a bad mark.
- 6. После словосочетания «прилагательное + существительное» (в комментариях):
- e.g. This is the right thing to do.

(с частицей <i>to</i> или без).
1. May I (to take) this pen?
2. They'll (to go) to Moscow (to take) part in the International Congress.
3 (to be) or (not to be), that is the question.
4. Where is Bob? – He's gone to the library (to get) prepared for the report in Chemistry.
5. It is such a pity that Jane caught a cold and had (to leave) earlier.
6. Any pharmacy needs an area (to store) drugs.
7. These are stupid words (to say).
8. Medical science managed (to eradicate) smallpox.
2. Поставьте инфинитивы в форму Active или Passive Simple.
1. The NHS provides treatment for all, regardless of the ability (to pay).
2. People expect (to give) advice on minor health problems when they go to a pharmacy.
3. In Great Britain, you'll have (to register) with a GP (to get) medical help.
4. The patient agreed (to operate) on in two months.
5. My friend needs a computer (to make) a presentation.
6. It is not very pleasant (to treat) by a dentist whom you don't know well.
7. After finishing school Melanie was eager (to enrol) into the medical school.

1. Употребите правильную форму инфинитива

3. Ответьте на вопросы. Ответы обязательно должны включать инфинитив в одной из функций.

e.g. What is the most challenging task in Anatomy? – **To cut a cadaver** is the most challenging task in this subject.

1. What are drugs used for?
2. Why do patients take anticoagulants?
3. What are diuretics used for?
4. What is the action of sedatives?
5. Give the definition of contraindications.
6. What is the easiest thing about being a student?
7. Why have you entered the medical university?
8. What do you think is the most difficult job for your friend? for your parents? for yourself?
9. What are you going to do during your summer vacations?
10. What do you think is an absolutely impossible thing for you?

Checklist

Оцените, чему вы научились в этом уроке. Отметьте (✓) утверждения, которые справедливы для вас.

- I can talk about different types of medications
- I know the routes of drug administration
- I can understand directions for drug use
- I can use infinitive and understand its functions

Key Words

analgesic n, adj / ænəl`dʒi:zɪk/ anaesthetic n, adj / ænəs θetik/ anticoagulant n, adj / æntikəu`ægjulənt/ antiemetic n, adj / ænti i`metik/ antihistamine n, adj / ænti`histəmin/ antihypertensive *n*, *adj* / æntɪ haɪpə`tensiv/ anti-infective n, adj / ænti in fektiv/ anti-inflammatory n, adj / ænti in`flæmətri/ antineoplastic n, adj / æntɪˌni:əu`plæstɪk/ cutaneous adj /kju`teiniəs/ diuretic n. adi /daijuə`retik/ eliminate v /ı`lımıneıt/ generic name /dʒə`nerik neim/ hypnotic adj /hip`natik/ intramuscular adi / Intra`maskiula/ intravenous adj / intra vi:nas/ nausea n /`nɔ:zɪə/ orally adv /`arəlı/ painkiller n / pein kilə/ psychotropic n, adj / saikə`trapik/ rectal adj / rektəl/ relieve v/ri`li:v/ sedative n. adi /`sedətiv/ side effect /said i`fekt/ sublingual adj /səb`lıngwəl/ trade name /treid neim/ vomiting n /`vamitin/

Просмотрите еще раз материал урока. Запишите другие слова и выражения, которые могут оказаться для вас полезными, и выучите их.

In this unit

- talking about nutritional value of different foods
- acquiring the notion of balanced and unbalanced diet
- describing the role of balanced diet for person's health
- giving recommendations as for healthy nutrition
- Future Perfect and Past Perfect







Lead-in

1. Рассмотрите рисунки и ответьте на вопросы:

- Which of these foods are healthy and which are unhealthy?
- Can you think of other healthy and unhealthy foods?
- What is your favourite dish? Why?
- Have you ever tasted ethnic food (e.g., Chinese, Indian, etc.)? Did you enjoy it?
- What dishes is your country famous for?
- What is junk food? Why do people eat so much junk food nowadays?
- Which of these foods are good sources of proteins? vitamins? carbohydrates?
- Which foods are high in fats?
- Which foods contain high level of vitamin C?
- Which foods are low in vitamins?
- Which items on the list are junk food?
- Which food do you think is the highest in calories?













Reading

Nutrition

Food provides the energy and nutrients you need to be healthy. Nutrients include proteins, carbohydrates, fats, vitamins, minerals and water.

Protein is in every living cell in the body. Our bodies need protein from the foods we eat to build and maintain bones, **muscles** and skin. We get proteins in our diet from meat, dairy products, nuts and certain grains and beans. It is important to get enough dietary protein. You need to eat protein every day, because your body doesn't store it the way it stores fats or carbohydrates. The average person needs 50 to 65 grams of protein each day.

Carbohydrates are one of the main types of nutrients. They are the most important source of energy for your body. Your digestive system changes carbohydrates into glucose (blood sugar). Your body uses this sugar for energy for your cells, tissues and organs. It stores any extra sugar in your liver and muscles for when it is needed.

Carbohydrates are called simple or complex, depending on their chemical structure. Simple carbohydrates include sugars found naturally in foods such as fruits, vegetables, milk, and milk products. Complex carbohydrates include whole grain breads and cereals, starchy vegetables and legumes.

Fat is a major source of energy and aids your body in absorbing vitamins. It's important for proper growth, development and keeping you healthy. Fats are an especially important source of calories and nutrients for infants and toddlers. Dietary fat also plays a major role in your cholesterol levels.

But not all fats are the same. You should try to avoid

- Saturated fats such as butter, solid shortening, lard and fatback
- Trans fats, found in vegetable shortenings, some margarines, crackers, cookies, snack foods

Vitamins should be supplied daily in the diet.

Minerals are important for your body to stay healthy. Your body uses minerals for many different jobs, including building bones, making hormones and regulating your heartbeat.

There are two kinds of minerals: macrominerals and trace minerals. The former are needed in larger amounts and include calcium, phosphorus, magnesium, sodium, potassium, chlorine and sulphur. The latter are needed just in small amounts and include iron, manganese, copper, iodine, zinc, cobalt, fluorine and selenium.

Every living creature needs clean and safe drinking water. How much do you need? It depends on your size, activity level and the weather - all make a difference.

The food which contains all above nutrients and provides the optimal growth and development is known as a balanced diet, whereas an unbalanced diet causes various health problems, such as **obesity**, **anorexia**, **bulimia**.

In today's fast-moving world people have less and less time to spend eating, let alone cooking. It is probably for this reason that **junk food** has become so popular. Junk food includes anything that is high in calories but lacking in nutrition. Hamburgers, crisps, chocolate bars and hot dogs fall into this category. Pizzas are also included as they contain a lot of fats. The researchers suggest that the new generation will be much more likely to **suffer** from heart and liver diseases because of unhealthy food. Learning to eat nutritiously is not hard. The key is to

- Eat a variety of foods, including vegetables, fruits and whole-grain products
- Eat lean meats, poultry, fish, beans and low-fat dairy products
- Drink lots of water
- Go easy on the salt, sugar, alcohol, saturated fat and trans fat

Vocabulary Practice

- 1. Объясните значение выделенных слов из текста на предыдущей странице.
- 2. Определите, какую роль играют питательные вещества в нашей жизни.

1. minerals	a. building and maintaining
	bones, muscles, skin.
2. carbohydrates	b. absorption of vitamins,
	proper growth especially
	for infants and toddlers.
3. proteins	c. source of energy for
	cells, tissues and organs.
4. vitamins	d. building bones, making
	hormones, regulation of
	heartbeat
5. fats	e. synthesis of DNA, RNA,
	cell division, energy
	metabolism, bone and
	teeth development.

3. Составьте словосочетания, используя данные прилагательные и существительные.

1. carbohydrates	a. saturated, trans, dietary, solid
2 foto	
2. fats	b. macro, trace
3. minerals	c. simple, complex
4. water	d. hydrogenated, olive,
	sunflower
5. diet	e. drinking
6. food	f. balanced, healthy,
	unbalanced
7. product	g. junk, high in calories,
	lacking in nutrition, snack
8. oils	h. whole-grain, low-fat
	dairy

4. Закончите предложения, употребив подходящие по смыслу предлоги.

подходящие по смыслу предлоги.

from, into, for, on (x2), in (x2), as

Daily consumption of water depends______
your size and activity level.
 Fats play an important role ______ cholesterol
level.
 Our generation suffers _____ heart and liver
diseases because of unhealthy food.
 Vitamins and different minerals should be
supplied_____ our diet.
 People should go easy______ saturated
fat, salt, sugar and alcohol.

6. The food which provides the optimal growth and development is known a balanced diet.7. Fats are important proper growth and
development of the body. 8. The digestive system changes carbohydrates glucose.
5. Распределите продукты по трем группам. Укажите, какие из них полезны для здоровья, а
какие нет.
legumes, grain breads, starchy vegetables, dairy products, poultry, lard, cereals, butter, soybeans, shortening, nuts, meat, grains,
fruits, olive and sunflower oil, fatback.
Proteins:
Carbohydrates:
ourbonyurates
Fats:
Какие из полезных продуктов вы едите каждый
день? Какие вы хотели бы добавить в ваш
рацион?
6. Заполните пробелы словами из таблицы.
calories, fats, cholesterol, balanced diet,
malnutrition, carbohydrates, minerals,
vitamins, fast food, genetically modified
Most children enjoy eating 1,
but scientific tests have shown us that burgers
and pizzas can lack essential 2
and 3, which are
important for health and growth, while
simultaneously containing large amount of 4 and 5 which can
and 5 which can result in obesity and health problems. Many
children end up suffering from, 6
since they eat too much of the wrong sort of food.
Dieticiasu tell us that we must eat a 7
as it is essential we consume sufficient quantities
of the different food groups. They tell us that we
should all eat more fibre and fewer foods which
are high in 8, as it can block the walls of arteries and lead to heart problems.
Many of the ready-prepared foods we buy from supermarkets are high in 9
10 foods are appearing on our supermarket shelves, even though nobody is
really sure if altering the composition of food cells
is safe.

Language Development

1. Просмотрите текст еще раз и ответьте на

вопросы:
1. What is the main function of food? List the nutrients we get from food.
2. What is the role of protein?
3. Which food contains protein?
4. What is the most important source of energy for your body?
5. What types of carbohydrates are there? Where can we get them from?
6. What do we need fat for? Which fats are not healthy?
7. What kinds of minerals are there? Give examples.
8. Which problems can unbalanced diet cause?
9. What would you recommend to provide balanced diet for your patient?
2. Проект. Research one of the following substances, and write about why our body needs it, what it is found in. Use the active vocabulary of the Unit. Vitamin E Selenium

Folic acid

Nicotinic acid

Vitamin K

Potassium

Grammar in Use

Present Perfect				
		Positi	ve	
I / We / You / They		have	bought	vitamins.
He / Sh	ne / It	has		
		Negati	ve	
I/We/	You /	haven't		
They			bought	vitamins.
He / Sh	ne / It	hasn't		
	Questions			
	have	I / we /		
(Why)		you /	bought	vitamins?
		they		
	has	he / she /		
		it		
never (k just, ye	before), t, recen : Perfec	лова: befo up till now tly, lately, a t использу	v, so far, s already	
ооозначения. 1 Действий, начавшихся в прошлом и				
• • • • • • • • • • • • • • • • • • • •				
продолжающихся до настоящего момента:				
e.g. Vitamin D has accumulated since birth.				

- 2 Действия, которые произошли в неопределенном прошлом:
- e.g. Have you taken the pill yet?
- 1. Закончите предложения, употребив глаголы в форме Present Perfect или Past Simple.

1. In 1747, the	Scottish surge (to disco	on James Lind ver) beneficial
properties of c	itrus foods to pr	revent scurvy.
		cently amin D deficiency
	ne day before y	_ (to have) nausea esterday.
4 have) any aller	you ever gic reactions?	(to
5. Why (to answer) the	not you e phone yesterd	
6. Why	not you	

(to answer) your mother's letter yet?

Past Perfect

Positive						
I / We / They / She / It	He/	had bought		٧	vitamins.	
Negative						
I / We / You / They / He / She / It		hadn	't	bought vitamins.		vitamins.
Questions						
(Why) had I / we / you / they / he / she / it			t	vitamins?		

Сигнальные слова: already, before (then), never ... before; after, when, as soon as, by the time that.

Past Perfect используется:

Чтобы указать на предыдущее действие, то есть на более раннее из двух действий:

e.g. When the doctor **arrived** the patient **had died**. = First the patient died. Then the doctor arrived.

When the doctor **arrived** the patient **ied.** = First the doctor arrived. Then the patient ied.

2. Закончите предложения, употребив

глаголы в форме Past 1	Perfect или Past Simple.
1. I (to go	o) to bed as soon as I
the bones of the skull.	norise) all the names of
2. The physician prescription after he (to listen) to all the com	
3. The childstomach-ache when he (to eat) three pizzas.	
4. After Kate complete) her homework (to go) out.	

Future Perfect

Positive					
I / We / You / They / He / She / It		will have	bought	vita	mins.
		Negat	ive		
I / We / You / They / He / She / It		won't have	bought	vitamins.	
	Questions				
(Why)	will	I / we / you / they / he / she / it	have bought it?		it?

Сигнальные слова: by a certain time in the future, not... till/until something happens in the future.

Future Perfect используется:

Чтобы показать, что действие будет уже завершено к определенному моменту в будущем:

e.g. We **will have finished** this essay by the end of the week.

3. 4 _{T0}	вам удастся завершить (сделать) к
опред	еленному моменту в будущем? Ответьто
на вог	росы, употребив Future Perfect. Полет
фанта	зии приветствуется.

By the tomorrow morning I
2.By the end of the week I
3. By the end of the term I
4. By the end of the year I
5. By 2050 I

4. Закончите предложения, употребив глаголы в соответствующей форме настоящего, прошедшего или будущего времени.

		(to leave) the
hospital yester) the hospital after I
	(to exa	mine) all my patients."
2. "What	you _	(to
do) at this time	next Sunda	ıy?″ still
"I am afraid I (to work) on m	y report!"	
"I am sure you finish) it by tom	norrow night	." (to
"1	(not t	o think) so."
3. "	ou ever	(to be) to
Vienna?" "Yes, I	Just last	vear I
	Marriage of	Figaro in the famous
•		/h =
prepare) for the	nile i e test in che	(to mistry, Jack
	(to come). H	le
(to leave) his w	orkbook at ((to want)	university and so he to learn with me. We
	(to stud	(dy) the whole evening
and only. I hope we	(ī	o finish) by midnight (to get)
excellent mark	s for this tes	t.
5. "What		(to
do) on winter h		o) to Sochi. I
	_ (to like) si	nowboarding and
ski\?"		(to
"Oh, no. I	(to be) afraid of skiing and
such things." "So where	VOLL	(to go) to?"
"I	(not to kr	now) yet. I (to go) to?" (to go) on
(t	o think) I n tour "	(to go) on
"Oh, nice. I	(te	o wish) you a good
trip." "Thanks. The s		
	•	
6. The physicia she	ın	(to think) that
Mr Johns from	the hospital	(to discharge) next Friday. By that
time he	intics He	(to complete) the still
modicines but	(to take)	some other
continue treatn	nent at home	(to be) able to e.

Checklist

Оцените, чему вы научились в этом уроке. Отметьте (✓) утверждения, которые справедливы для вас.

- I can talk about nutritional value of different foods
- I can differentiate the balanced and unbalanced diet
- I can describe the role of balanced diet for person's health
- I can give recommendations as for healthy nutrition
- I can use future perfect and past perfect

Key Words

absorb v /əb`zɔ:b/ anorexia n /ænə`reksiə/ \brcv´\equiv biovs bulimia *n /*bu`lımıə/ calcium n / kælsıəm/ carbohydrate n / ka:bəu`haidreit/ drinking water /`drinkin`wo:tə/ fat n /fæt/ glucose n /`qlu:kəus/ heartbeat *n* / ha:tbi:t/ iron *n* /aɪən/ junk food /dʒʌŋk fu:d/ liver *n* /`livə/ magnesium n /mæg`ni:zɪəm/ muscle *n* /`mʌsl/ obesity n /əu`bi:sɪtɪ/ phosphorus *n* / fasfərəs/ proper *adj* / prapə/ protein *n* /`prəuti:n/ saturated adj/\sætjureitid/ store n /sto:/ suffer v /`sʌfə/ unsaturated adj /\lambda n \sætjureitid/

Просмотрите еще раз материал урока. Запишите другие слова и выражения, которые могут оказаться для вас полезными, и выучите их.

In this unit

- describing the structure of the human body
- describing the organs of the oral, thoracic and pelvic cavities
- describing the structure of the extremities
- learning the terms referring to the structure of the human body
- Sequence of Tenses

Lead-in

1. Это интересно:

- Approximately 90 percent of the body is made up of four elements: oxygen, carbon, nitrogen, and hydrogen.
- Between 40 and 50 percent of body heat is lost through the head. That is why hats keep the body warm in winter – they keep the heat in the body.
- 2. Рассмотрите рисунок. Все ли слова, обозначающие части тела, вам известны?
- 3. Прочитайте текст о частях тела человека. Выберите из списка заголовков A-F те, что лучше всего отражают содержание каждой части (1-5) текста. Здесь есть один лишний заголовок, который вам не понадобится. В начале текста приведен пример (0).
 - A. The trunk
 - B. Cavities of the body
 - **C.** The upper extremity
 - **D.** The lower extremity
 - **E.** The oral cavity
- F. The head forehead head ear eye cheek · nose neck mouth chin Adam's apple chest shoulder breast arm elbow umbilicus forearm abdomen wrist groin hand fingers penis/vagina thigh knee calf · leg ankle foot toes

Reading

Parts of the Human Body

The principal parts of the human body are the head, the **trunk** and the **limbs** or **extremities**.

0. F

The head is connected with the trunk by the neck

The bony framework of the head enclosing the brain is the **skull**. The front part of the head is the face. Its upper part is **composed** of the **forehead** and **temples**. The two sides of the lower face are called the cheeks. The two jaws (upper and lower) form the framework of the mouth with two lips, the upper and lower. The lower jaw also gives shape to the chin.

1.

The oral cavity contains the tongue and the gums, teeth, the hard and the soft palates and salivary glands. The organs of the special senses in the face are the eyes and the nose. The eye is set in the bony socket called the orbit. The eyes are protected by the eyelids, eyelashes and eyebrows. The ear includes three principal parts: the external ear, the middle ear and the internal ear. The nose which we use for smelling, breathing and sneezing has two openings called the nostrils. The top and the back part of the head is covered by hair.

2.

The trunk consists of the chest, the **abdomen** and the back. You can find three cavities in the trunk: the **thoracic**, **abdominal** and **pelvic** ones.

The thoracic cavity's organs include two lungs located in the lateral cavities and the heart. In the abdominal cavity the liver, stomach and **intestines** are located. The third cavity, the pelvic one, is below the abdominal cavity. It includes the body's reproductive organs, as well as the **urinary** organs such as the urinary **bladder**.

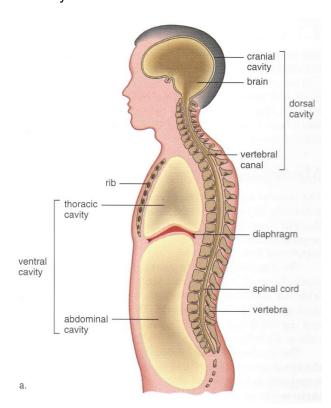
3.

We have four limbs or extremities: two arms and two legs. The arms are the upper extremities and the legs form the lower extremities. The upper extremity is divided into the **shoulder**, the upper arm, the **forearm** and the hand. Between the upper arm and the forearm there is the **elbow**. The **joint** between the forearm and the hand is called the **wrist**. Each hand has four **fingers** and one **thumb**. At the tips of the fingers there are **fingernails**.

4.

The parts of the lower extremity are the **thigh**, the lower leg and the foot. The back of the lower leg is called the **calf**. Between the thigh and lower leg there is the **knee joint**. The joints between the lower legs and the feet are the **ankles**. The foot consists of the **heel**, the **sole** and the **toes**.

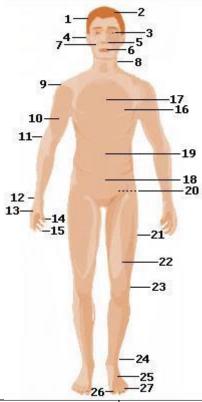
The body is covered with the skin.



Body cavities

Vocabulary Practice

- 1. Объясните значение выделенных слов из текста на предыдущей странице.
- 2. Какие части тела человека соответствуют данным описаниям?
- 1. the upper part of the body -
- 2. the part of the upper extremity from the shoulder to the hand -
- 3. the part of the body that connects the head and the shoulders -
- 4. the end of the arm -
- 5. the part of the lower extremity between the thigh and the foot -
- 6. the lowest part of the leg below the ankle on which a person stands -
- 7. the human body apart from the head and extremities -
- 3. Запишите названия частей тела.



20	
1.	15.
2.	16.
3.	17.
4.	18.
5.	19.
6.	20.
7.	21.
8.	22.
9.	23.
10.	24.
11.	25.
12.	26.
13.	27.
14.	

4. Используя ваши знания по другим предметам, запишите общеупотребительные эквиваленты к данным анатомическим терминам.

Anatomical term	Common word
abdomen	
axilla	
carpus	
coxa	
cubitus	
mamma	
nates	
patella	

5. Какие органы поражены при данных заболеваниях? Составьте предложения по образцу.

1. hepatitis	a. bladder
2. pneumonia	b. gall bladder
3. nephritis	c. ear
4. gastric ulcer	d. kidney
5. cystitis	e. liver
6. angina pectoris	f. lung
7. cholecystitis	g. stomach
8. ulcerative colitis	h. large intestine
9. otitis	i. heart

e.g.	Angina	pector	is is a	heart o	disease.

6. Заполните пробелы словами из таблицы. Переведите предложения на русский язык.

heart	eye (eyes)	from head to foot
brain	skeleton	skull and cross-bones
hand	tongue	lungs

1. Four	see more than two (a
proverb).	
2. A good surge	on must have an eagle's
and lady's	:
3. You are so th	in! You look almost like a
4. "The Jolly Ro	ger" is the emblem on pirates'
flags, it pictures	·································
5. It's raining he	avily! I am wet
6. They told him	to hold his
and to keep thei	r secret.
7. This carpet is	very expensive, it ismade.
8. He is a brilliar	nt scientist, in fact he is the
	of our research group.
9. He will forgive	you, I am sure. I know him as a
man with a kind	·
10. Parks and fo	orests around Simferopol are the
"green	" of our city.

Language Development

- 1. Просмотрите текст еще раз и ответьте на вопросы:
- 1. What are the principal parts of the human body?
- 2. How many parts does the head consist of?
- 3. What does the skull contain?
- 4. What does the face consist of?
- 5. What structures are there in the mouth?
- 6. What are the principal parts of the ear?
- 7. What connects the trunk with the head?
- 8. What cavities can you find in the trunk?
- 9. What are the principal organs in the chest? abdominal cavity? pelvic cavity?
- 10. What parts does the upper (lower) extremity consist of?
- 2. Как вы думаете, что такое здоровье? Прочитайте текст. Объясните значение выделенных слов. Ответьте на вопросы:

The Meanings of Health in the Modern World By Norman Sartorius

The Constitution of the World Health
Organization, which came into force on April 7,
1948, defined health "as a state of complete
physical, mental and social **well-being**."
However, today, three types of definition of health
seem to be possible and are used.

The first is that health is the absence of any disease or **impairment**. The second is that health is a state that allows the individual to **cope** with

all demands of daily life (implying also the absence of disease and impairment). The third definition states that health is a state of balance, an **equilibrium** that an individual has established within himself and between himself and his social and physical **environment**.

There are obvious difficulties with the first and the second of the definitions mentioned above. There are individuals who have abnormalities that can be counted as **symptoms** of a disease but do not feel ill. There are others who have peptic ulcers and other diseases, but have no problems, do not know that they have a disease and do not **seek** treatment for it.

The third definition mentioned above makes health **depend on** whether a person has established a state of balance within oneself and with the environment. This means that those with a disease or impairment will be considered as being healthy if they can achieve an internal equilibrium **despite** the presence of the disease. This definition is also useful because it makes us speak and think about our patients as people who are defined by different **dimensions** (including health) and who, at a point, suffer from a disease – and thus make us say "a person with **schizophrenia**" rather than "a schizophrenic," or a "person who has **diabetes**" rather than a "diabetic".

The huge challenges that face societies aiming to improve the health of their **citizens** will not be appropriately answered if we do not change our **attitude** towards the concepts of health and disease.

- 1. In what way do the three definitions of health differ?
- 2. Why is it important not to stigmatize a person as a "patient"? How does it help people with certain diseases?

3. Проект.

Surf the Internet and find out how the definition of health has been changing with time. What was the attitude towards patients with mental disorders or chronic illnesses in the Middle Ages? In the 19th century? What is it now? Prepare a short speech or essay on what can be done to make the life of such people easier. Is it a task for public health or the society as a whole?

Grammar in Use

Согласование времен

Мы применяем правило согласования времен, если нам нужно трансформировать прямую речь в косвенную. В этом случае, мы должны изменить время глаголы таким образом (правило «один шаг назад»):

Original sentence	Changed to
Present Simple	Past Simple
Present Continuous	Past Continuous
Present Perfect	Past Perfect
Past Simple	Past Perfect
will (Future)	would (Future-in-
	the-Past)
can	could
may	might
must	had to

Время Past Perfect остается без изменений.

1. Трансформируйте	данные предложения в
косвенную речь:	

Rocbelliylo pe 1b.
1. The surgeon said, "This drug has certain side effects."
2. The nurse said, "Dr Brown is making an operation".
3. The dietician said, "Betty has eaten only fruit and vegetables recently."
4. The lecturer said, "Students cannot write out prescriptions to patients".
5. The patient said, "Dr Smith gave me a referral to a neurologist yesterday".
6. The nurse said, "This patient will come again."
7. The student said, "We must complete this experiment tomorrow."

Меняя время по правилу соглсования времен, мы должны выполнить и некоторые другие изменения:

Original sentence	Changed to
today	that day
this morning	that morning
(evening)	(evening)
now	then
tomorrow	the following day
in a month	a month later
yesterday	the day before
last week	the week before
ago	before
here	there

- **e.g.** The physician said, "The patient **may** feel some gastric discomfort **today**". The physician said **that** the patient **might** feel some gastric discomfort **that day**.
- **N.B.** Не забывайте менять формы личных местоимений, как мы делаем это в русском языке:
- **e.g.** She said, "**I** want to become a nurse". She said that **she** wanted to become a nurse.
- 2. Употребите глаголы в скобках в правильной форме Present Simple, Past Simple или Past Perfect:

He said, "Ibuprofen be) available without prescription".	_ (to
2. He said that the patientill with angina pectoris.	(to be)
3. He said, "I (to be) at University yesterday."	
4. He said that he (not to be the lecture on philosophy the day before	e) at
5. He said, "I (to have) an to aspirin".	allergy
6. He said a month before he(to have) a severe allergy.	
7. He said, "We (to spea about the pelvic cavity last week."	k)
8. He said that they (speak) about the structure of the ear yet	

3. Что было сказано на самом деле? Трансформируйте косвенную речь в прямую:

e.g. Mr Holmes said that he would deliver a lecture on the diseases of joints two weeks later. Mr Holmes said: "I'll deliver a lecture on the diseases of joints in two weeks."

Dr Bayer said that Aspirin was the most popular drug in the USA. Dr Bayer said, "
2. Sylvia said that she wanted to ask for another injection of codeine as she felt severe pain. Sylvia said, "
3. Mother said that she had bought soya and some whole grains after consulting with her dietician. Mother said, "
4. My friend said that he would study pathology of the urinary organs after university. My friend said, "
5. Dr House said that the patient had had a very unusual disease two years before. Dr House said, "
6. Dr Watson said that his friend had suffered from drug addiction for many years already. Dr Watson said, "
7. My friend said that he would see his dentist again 3 days later. My friend said, "
8. The ENT doctor said that the child had developed otitis two days before. The ENT doctor said, "
9. The student said that she didn't know the difference between the thumb and the finger. The student said, "
10. Konrad Adenauer said that all parts of the human body got tired eventually – except the tongue. Konrad Adenauer said, "

Checklist

Оцените, чему вы научились в этом уроке. Отметьте (✓) утверждения, которые справедливы для вас.

- I can describe the structure of the human body
- I can describe the organs of the oral, thoracic and pelvic cavities
- I can describe the structure of the extremities
 - I know the terms referring to the structure of the human body
- I can apply the rules of sequence of tenses

Key Words

abdomen n /`æbdəmən/ abdominal adj /æb`damınəl/ ankle n /`ænkl/ breathe *n* /bri:ð/ calf (pl. calves) n /ka:f (ka:vz)/ cavity n /`kævıtı/ compose v/kəm`pəuz/ elbow n /`elbəu/ extremity n /ik`stremiti/ eyebrow *n* /`aıbrau/ eyelash n /`aɪlæʃ/ finger n /`fɪŋgə/ fingernail n /`fingəneil/ forearm n / fɔ:ra:m/ forehead n / farid/, / fo:hed/ gland n /glænd/ heel n /hi:l/ intestines *n* /in`testinz/ joint n /dspint/ knee n /ni:/ limb n /lim/ nostril *n* /`nastril/ palate n /`pælət/
pelvic adj /`pelvik/
salivary adj /sə`laivəri/ shoulder n /` [aulda/ skull n /skal/ sneeze v /sni:z/ socket n / sakit/ sole n /saul/ temple *n* /`templ/ thigh *n* /θaɪ/ thoracic adj /00: ræsik/ thumb $n / \theta_{\Lambda} m /$ toe n /təu/ trunk *n* /trʌŋk/ urinary bladder / juərinəri blædə/ wrist *n* /rɪst/

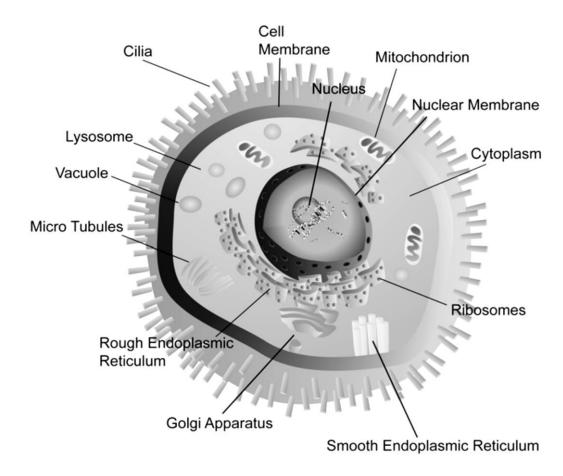
Оцените, чему вы научились в этом уроке.

In this unit

- describing the structure and functions of the cell
- describing the chemical substances of the cell
- relative clauses

Lead-in

- 1. Прочитайте об истории исследования клетки и ответьте на вопрос: каковы основные положения клеточной теории?
 - Very little was known about the structure of living matter until the development of the light microscope. Then Robert Hook, an English scientist, made an important discovery in 1665 while using a simple microscope that he designed. He observed tiny, orderly, but empty spaces in a thin slice of cork, a type of dead plant material. These spaces reminded him of the spaces in a honeycomb. He called these spaces "cells".
- By the late 1830s, a formal theory about the structure and function of all life had been developed. This theory, called the Cell Theory, may be stated as follows:
 - 1. All living things are made up of cells.
 - 2. The cell is the basic unit of all living things.
 - 3. Only living cells can produce new living cells.
- 2. Прочитайте текст о клетке и подготовьтесь ответить на вопросы, вынесенные в заглавия разделов текста.



Human Cell. Some important elements of a cell, including the nucleus, cytoplasm, mitochondria, lysosomes and ribosomes.

Reading

The Cell

1. What is a cell?

Cells are the structural and functional units of all living organisms. Some organisms, such as bacteria, are **unicellular**, consisting of a single cell. Human organisms are multicellular, or have many cells - an estimated 100,000,000,000,000 (100 trillion) cells! Each cell is an amazing world in itself: it can take in nutrients, convert these nutrients into energy, carry out specialized functions, and reproduce as necessary. There are numerous types of cells having different shape and size and performing various specific functions.

2. What is the basic structure of the cell?

Despite their different shape and size, most cells have four common structural features: a cell membrane, a nucleus, a cytoplasm and cell organelles.

The outer lining of a cell is called a **cell membrane**. This membrane serves to separate and protect a cell from its surrounding environment and is made mostly from a double layer of proteins and lipids. Part of the job of the membrane is to keep out dangerous substances that will harm the cell, and therefore the body.

3. What is a nucleus?

The **nucleus** is the most clearly visible organelle found in a cell. It contains 46 chromosomes which carry genetic information. Chromosomes are made up of DNA and protein. DNA is the body's genetic code. The nucleus is spheroid in shape and separated from the cytoplasm by a membrane called the **nuclear envelope** which protects a cell's DNA from damage.

4. What is cytoplasm?

Inside the cell there is a large fluid-filled space called the **cytoplasm**. The cytoplasm dissolves nutrients, helps break down waste products, and moves material around the cell. The nucleus often flows with the cytoplasm changing its shape as it moves. The cytoplasm contains minerals, gases, and other organic molecules as well as cell organelles.

5. What organelles are there in the cell?

Each of these organelles has a specific job to do in order to **enable** cells to function.

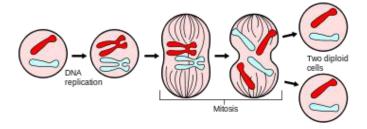
Thus **ribosomes** are the protein-making organelles. They are made of protein and ribosomal RNA where the protein synthesis occurs.

Another cell organelle is the **mitochondrion**, which provides the energy that cells need to function. It is in mitochondria that cell respiration takes place.

Another type of organelle is **lysosomes**, which contain digestive enzymes and help white blood cells to destroy bacteria, digest dead cells and damaged cellular parts.

6. What is mitosis?

When the body cell divides, by the process of **mitosis**, the chromosomes are doubled and then equally distributed in the two daughter cells.



Mitosis divides the chromosomes in a cell nucleus.

Vocabulary Practice

- 1. Объясните значение выделенных слов из текста на предыдущей странице.
- 2. Найдите определения для данных слов и словосочетаний.

словосочетании.	
1. Lysosome	a. Structure in the
	cytoplasm where proteins
	are made.
2. Cell membrane	b. Structure in the
	cytoplasm that releases
	energy from food.
3. Ribosome	c . Digestive enzyme which
	breaks down dead and
	aging cell parts.
4. Nucleus	d. Rod-shaped structure
	found in the nucleus of the
	cell that are made of DNA.
Mitochondrion	e. The jelly-like substance
	surrounding the nucleus of
	the cell.
6. Chromosome	f. The part of cell that
	directs all the cell's
	activities.
7. Cytoplasm	g. The part of the cell that
	determines what enters
	and leaves the cell.

3. Закончите предложения, используя слова из таблицы. Некоторые слова можно использовать дважды.

mitosis, DNA and RNA, organelles, cell(s)

1. The basic unit of a liv	ing organism is a
2. The genetic materials	that determine how all
organisms grow and dev	velop are
3. During	nucleus of a cell
divides into two nuclei a	nd the formation of two
new daughter cells begi	ns.
4	are tiny specialized
structures within a cell tl	hat perform cell functions
All animals and plants	s consist of
4 0.5 V	
4. Образуйте как можно	
словосочетаний со слов	som cell.

4. Образуйте как можно больше словосочетаний со словом cell.	
e.g. cell growth	

- 5. Тест: выберите подходящий по смыслу ответ.
- 1. The science that studies cell is

a. cytologyb. histologyc. biologyd. pathology

- 2. Cytology deals with
 - a. microorganisms
 - b. classification of living things
 - c. cells
- 3. Cells are
 - a. the smallest units of any substance
 - b. the microscopic units of life
 - c. tiny units of plants
- 4. The outer covering of a cell is the

a. cell wallb. organellec. cell membraned. mitochondria.

5. The control centre of the cell is the

a. cytoplasmb. nucleusc. mitochondriad. nucleolus

6. Structures involved in the digestive activities of the cell are

a. lysosomesb. chromosomec. nuclear membraned. endoplasmicreticulum

7. Protein factories in the cell are known as

a. mitochondriab. ribosomesc. endoplasmicreticulumd. cytoplasm

8. The network of passageways that transports proteins throughout the cell is known as the

a. nuclear membraneb. endoplasmicc. lysosomesd. ribosome

- 9. The scientist who was the first to observe the tiny structures in cells was
 - a. Gregor Mendel
 - b. Robert Hook
 - c. Charles Darwin
- 10. The number of cells in a human organism is
 - a. 100 million
 - **b.** 100 billion
 - c. 100 trillion

Language Development

1. Назовите основные структурные компоненты клетки.

a.	d.
b.	e.
C.	f.

2.	Закончите	предложения.

2. Закончите предложения.
The four basic common elements of cell structure are

2. Cells can differ in
3. The control centre of the cell is
4. The number of chromosomes each human cell has is
5. Organelles that destroy damaged cells are
6. Usually cells are so that we can't see them with unaided eye.
7. The process of doubling a cell is
3. Просмотрите текст еще раз и ответьте на вопросы:
1. What is a cell?
2. How many cells are there in the human body?
3. What is the basic structure of the cell?
4. What is a nucleus?
5. What do you know about chromosomes of the nucleus?
6. What is the role of cytoplasm in the cell?

7. What other organelles are there in the cell?
8. What is the role of ribosomes? lysosomes? mitochondria?
9. What is mitosis?
·

4. Прочитайте текст и назовите плюсы и минусы нового метода лечения опухолей.

DNA Used To Fight Skin Cancer

New York. The injection of new genes directly into a patient's tumour tissue is a safe procedure that can help induce the immune system to destroy the malignancy, scientists have reported.

The results from the first phase of a clinical trial suggest that the use of DNA as a drug, a radical new approach to combat cancer and other disorders, may eventually supplement if not replace standard tumour treatments like radiation or chemotherapy.

Dr Gary J. Nabel of the Medical Institute at the University of Michigan and his colleagues reported their findings in the Proceedings of the National Academy of Sciences. They **found** that when they injected DNA into the tumours of five patients with advanced skin cancers the genes slipped deep inside the malignant cells and switched on, as the scientists hoped.

All five patients tolerated the novel therapy well. In one patient, a 68-year-old man for whom conventional and experimental therapies had failed, the treatment caused many disseminated tumours to shrink and in some cases disappear.

But the researchers stressed that much more investigation remains to be done before the method can be introduced on a wide scale for the treatment of melanoma and other tumours.

5. Проект.

Research the topic "Stem Cells", and make up a report about the use of stem cells from embryos in treatment of serious illnesses. What is the controversy of this problem?

Grammar in Use

Относительные придаточные предложения

Относительные придаточные предложения вводятся относительными местоимениями who, whom, which, that и whose и могут:

- **1.** Относиться к **подлежащему**, когда относительное местоимение является **подлежащим** в предложении.
- **a)** Мы используем **who** или **that,** когда говорим о людях.
- e.g. Robert Hook was the scientist **who/that** introduced the term "cell".
- **b)** Мы используем *which* или *that*, когда говорим о неодушевленных предметах.
- e.g. One of the cell organelles is the mitochondria, which/that provide the energy.
- **c)** мы используем **whose**, когда говорим о предметах, принадлежащих людям.
- e.g. Dr Gary J. Nabel was the physician whose new methods were used to treat cancer.
- 1. Составьте сложноподчиненные предложения, используя *who* или *which*. (*That* можно употребить во всех случаях).

·
2. This is Robert Hook. He discovered cells in 1665.
·
3. This is the article. It should be read by all medical students.
•
4. This is the professor. He is my uncle's friend.
5. The word <i>cell</i> comes from the Latin <i>cella</i> . It means <i>a small room</i> .

6. Bacteria consist of only one cell. It can divide

and make other bacteria.

- **2.** Относиться к **дополнению**, когда относительное местоимение является **дополнением** в предложении.
- **a)** Мы используем **who, whom, that** или вообще не используем союз, когда говорим о людях.
- e.g. He is the professor **who/whom/that** I respect most. = He is the professor I respect most.
- **b)** Мы используем *which, that* или вообще не используем союз, когда говорим о предметах.
- e.g. Mitochondria provide the energy that/which cells need to function. = Mitochondria provide the energy cells need to function.
- **c)** Мы используем *of which,* когда говорим об одном предмете, соотносящемся с другим.
- e.g. This is his new book the publication of which made him famous.
- 2. Поставьте (✓), если выделенное относительное местоимение можно опустить; напишите 'No', если этого сделать нельзя.
- 1. A patient's own blood was used to make personalised stem cells, **which** will be used to treat a range of diseases.
- 2. The team **which**_works at the University of Cambridge says **that** this could be one of the easiest and safest sources of stem cells.
- 3. In a study, **which** the journal *Stem Cells* published in 2014, the cells were used to build blood vessels. ______

 4. However, there are some experts **who** stated **that** the safety of using such stem cells
- 5. Stem cells can transform into any other type of cell **that** the body is built from.

was still unclear. _____

- 6. So these cells **which** should be able to repair everything from the brain to the heart, and eyes to bone, are really great.
- 7. The British Heart Foundation **which** is a charity **that** aims to prevent people dying from heart diseases said **that** these cells had "great potential".

скобках, либо не используя никаких соединительных слов (zero).
1. All cells contain DNA. This holds genetic information. (which)
2. Dmitri Mendeleyev is a scientist. We are studying him. (whom)
3. One of the most complex structure is a human body. It contains over 100,000 billion cells. (<i>that</i>)
4. This is a very useful book. I borrowed it from the library. (which)
5. This is the picture of a cell. Katya drew it as a part of her project. (<i>zero</i>)
6. Today there will be extra classes for the students. These students will take part in the conference. (that)
7. I would recommend you to see the professor. I know him well. (<i>zero</i>)
8. Yesterday I met Mr Leah. His daughter won the competitions. (whose)
9. It was a very famous monument. Its destruction impressed everyone. (of which)
10. This is Mrs Goldsmith. She is my favourite lecturer. (who)

3. Составьте сложноподчиненные предложения,

используя относительное местоимение, данное в

Checklist

Оцените, чему вы научились в этом уроке. Отметьте (✓) утверждения, которые справедливы для вас.

- I can describe the structure of the cell
- I know the chemical substances of the cell
- I can use relative pronouns which and that
 - in complex sentences
- I know about tumour treatment with the help of DNA

Key Words

cell membrane /sel `membrein/ chromosome *n* /`kraumasaum/ controversy n /kən`travəsı/ conventional adj /kən`ven [ənəl/ cytoplasm n / sartəuplæzm/ enable v /ı`neɪbl/ lysosome n / laisə`səum/ malignancy n /mə`lıgnənsı/ malignant adj /mə`lıqnənt/ mitochondrion (pl. mitochondria) n /maitə kandriən (maitə kandriə)/ mitosis n/mai`təusis/ multicellular adj / mʌltɪ`seljələ/ nuclear envelope /`nju:kliə `envələup/ nucleus (pl. nuclei) n /`nju:kliəs (`nju:kliai)/ organelle n /`ɔ:qənəl/ proceedings n pl. /prau`si:dɪŋz/ /mues edust, raiba səum/ rough adj /r f/ smooth adj /smu:ð/ supplement n /`sapliment/ tumour n /`tju:mə/ unicellular adj / ju:n1`seljələ/

Просмотрите еще раз материал урока. Запишите другие слова и выражения, которые могут оказаться для вас полезными, и выучите их.

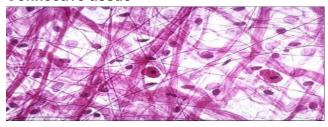
In this unit

- names of the basic types of tissues
- describing the structure of the organs of the human body
- substitute words one, ones, that, those, there, do

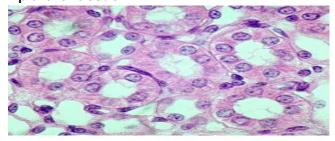
Lead-in

Cells are organized into four basic types of tissues:

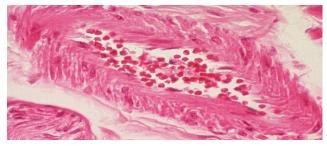
Connective tissue



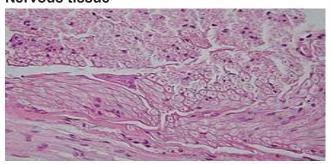
Epithelial tissue



Muscle tissue



Nervous tissue



1. Это интересно:

- There are four basic types of tissue: muscle, nervous, connective, and epithelial.
- Connective tissue is the material inside your body that supports many of its parts. It is the "cellular glue" that gives your tissues their shape and helps keep them strong.
- Adults have a certain number of muscle cells. Through exercise, such as weight lifting, the cells enlarge but the overall number of cells does not increase.
- Nervous tissue is responsible for many of the body's activities and processes, including memory, reasoning and emotions.
- Skin is the largest organ of the body so its epithelial tissues cover the most ground.
 Skin epithelium is truly the first line of defence against the outside physical world, creating a barrier like none other found in the body.
- Scar tissue replaces normal skin tissue after the skin is damaged. Scars form every time the skin is damaged beyond its first layer, whether that damage comes from a cut, burn, or a skin condition like acne or a fungal infection.
- 2. Прочитайте текст о мышцах. Выберите из списка утверждений A-E те, что лучше всего отражают содержание каждой части (1-4) текста. Здесь есть одно лишнее утверждение, которое вам не понадобится.
- A. What is muscle?
- B. What is an organ system?
- C. What is an organ?
- D. What are the three primary germ cell layers that form the embryo?
- E. What are the four main types of tissue?

The law of the heart is thus the same as the law of muscular tissue generally, that the energy of contraction, however measured, is a function of the length of the muscle fibre.— **Ernest Henry Starling**

Reading

Tissue

1.

Tissue is a collection of similar cells that group together to perform a specialized function. All tissues of the body develop from the three primary **germ** cell layers that form the embryo: **Mesoderm** – develops into epithelial tissue, connective tissue and muscle tissue.

Ectoderm - develops into nervous tissue and epithelial tissue.

Endoderm – develops into epithelial tissue. Different kinds of tissue have different physical properties. Tissues may be hard (bone), soft (muscle), or even liquid (blood).

2.

The **epithelial tissues** are formed by cells that cover the organ surfaces such as the surface of the skin, the airways, the reproductive tract, and the inner lining of the digestive tract. This tissue provides a barrier between the external environment and the organ it covers. Epithelial tissue helps to protect organisms from microorganisms, injury, and fluid loss. Epithelial tissues help in absorption of water and nutrients, and in elimination of waste product.

Connective tissue adds support and structure to the body. Most types of connective tissue contain fibrous **strands** of the protein collagen that add strength to connective tissue. Some examples of connective tissue include the inner layers of skin, tendons, ligaments, cartilages, bones, blood, and fat tissue.

Muscle tissue is a specialized tissue that can contract. Muscle tissue contains the specialized proteins actin and myosin that slide past one another and allow movement. Examples of muscle tissue are contained in the muscles throughout your body.

Muscles are divided into 3 categories: skeletal, cardiac and smooth.

Nerve tissue contains two types of cells. neurons and glial cells, and it makes up the central nervous system (CNS) and the peripheral nervous system (PNS). Nerve tissue has the ability to generate and conduct electrical signals in the body. These electrical messages are managed by nerve tissue in the brain and transmitted down the spinal cord to the body.

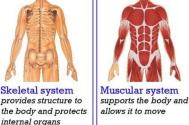
The study of tissue is known as **histology** or, in connection with disease, histopathology.

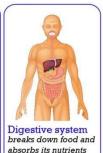
Organs are the next level of organization in the body. An **organ** is a structure that contains at least two different types of tissue functioning together for a common purpose. There are many organs in the body: the liver, kidneys, heart, even skin is an organ. The heart is an example of an organ made up of all four kinds of tissues.

4.

Organ system is a group of related organs performing a major function for an organism. Examples of human organ systems include the circulatory, digestive, nervous, reproductive, respiratory, skeletal, muscular, excretory, endocrine systems.







The highest level of organization of life is the multicellular organism. Multicellular organisms are composed of the combination of all its cells, tissues, organs, and organ systems.

Vocabulary Practice

1. Объясните значение выделенных слов из текста на предыдущей странице.

2. Соотнесите мышцы и их функции.

-	
1. nervous	a. carries messages between
tissue	brain and body parts (brain
	and spinal cord tissues are
	examples)
2. muscle	b. connects and supports
tissue	parts of the body (bone and
	fat are examples)
3. epithelial	c. covers the surfaces of the
tissue	body and lines the internal
	organs (skin is an example)
4. connective	d. contracts and allows
tissue	movement of the body (heart
	muscle is an example)

3. Прочитайте текст, заполнив пробелы словами из таблины.

Tissue, skin, connective, muscle, walls, cells, impulses, organ, epithelial, protection, smooth, internal.

Many different tissues grouped together create
an 1, which has a specific job.
An example of an organ would be the stomach.
Epithelial 2. covers the body
Epithelial 2 covers the body surface and forms the lining for most internal
cavities. The major function of 3.
tissue includes protection,
secretion, absorption, and filtration. The 4.
is an organ made up of epithelial
tissue which protects the body from dirt, dust,
bacteria and other microbes that may be
harmful. Connective tissues perform a variety of
functions including support and
5 Fat tissue, dense fibrous
tissue, cartilage, bone, blood, and lymph are all
considered 6 tissue. There are
three types of muscle tissue: skeletal,
7 and cardiac. Skeletal
8 is a voluntary type of muscle
tissue that is used in the contraction of skeletal
parts. Smooth muscle is found in the walls of
9 organs and blood vessels. It is an
involuntary type. The cardiac muscle is found
only in the 10 of the heart and is
involuntary in nature. Nerve tissue is composed
of specialized 11 and conducts
12 to and from all parts of the
body. Nerve cells or neurons are long and
string-like.

4. Определите тип ткани.

- 1. This tissue contains two types of cells: neurons and glial cells. Its functions are to transmit messages in form of impulse.
- 2. The tissue serves as membranes lining organs and helping to keep the body's organs separate. The cells of the body surface form the outer layer of skin. Inside the body, this tissue forms lining of mouth and alimentary canal and protects these organs.
- 3. This tissue is usually made of cells and extracellular fibres that hold structures together (tendons), protect them (cartilage), store energy (fat), or produce blood.
- 4. The tissue is made of cells that are organized to shorten and produce force when they contract.

1.	3.
2.	4.

5. Тест: выберите правильный вариант ответа.

1. A group of similar cells that perform a similar function is called a(an)

a. tissueb. organc. organ systemd. living thing

2. A tissue that has ability to contract is

a. muscle tissueb. nerve tissuec. connective tissued. epithelial tissue

3. Which type of tissue is blood?

a. muscle tissueb. nerve tissuec. connective tissued. epithelial tissue

4. An organ made up of all four kinds of tissues is the

a. brainb. bloodc. heartd. spinal cord

5. A tissue that protects the surface of the body is

a. muscle tissueb. connective tissuec. nerve tissued. epithelial tissue

6. The tissue that has ability to generate and conduct electrical signals in the body is

a. nerve tissueb. epithelial tissuec. connective tissued. muscle tissue

Language Development

Contains		 	
9. What i	is an organ?		

8. What two types of cells does nerve tissue

10.	What	is an	organ	system?

contain?

2. К какому типа тканей относятся данные органы и образования?

1. epithelial	a. muscles throughout the
	body
2. connective	b. brain and spinal cord
3. muscle	c. the inner layers of skin,
	tendons, ligaments,
	cartilage, bone, blood, and
	fat tissue
4. nervous	d. the outer layer of the
	skin, the inside of the mouth
	and stomach, and the tissue
	surrounding the body's
	organs

3. Изучите информацию об основных системах органов и ответьте на вопросы.

System	Function
Skeletal	Protects and supports the
	body.
Muscular	Supports the body and
	enables to move.
Digestive	Receives, transports, breaks
	down, and absorbs food.
Circulatory	Transports oxygen, wastes,
	and digested food.
Respiratory	Permits the exchange of
	gases in the body.
Excretory	Removes liquid and solid
	wastes from the body.
Nervous	Conducts messages
	throughout the body to aid in
	coordination of body
	functions.
Reproductive	Produces male and female
	sex cells.

- 1. Which organ system enables the body to move?
- 2. Which system transports materials throughout the body?
- 3. Which organ system enables humans to continue their own kind by producing more humans?
- 4. Which system changes food into simpler compounds that can be used by the cell?
- 5. Name the organ system which receives, coordinates, and acts upon information from the environment.
- 6. Which organ system exchanges gases between outside and inside the body?

4. Проект.

Nowadays, there are lots of artificial tissues (like artificial blood) and organs (like skin equivalent). Choose one of such organs or tissues, describe its properties and compare with corresponding natural ones. Prepare a short speech or essay.

Grammar in Use

Слова-заместители one, ones, that, those, there, do

Если возможно, мы избегаем повторения слова или фразы, которые были использованы ранее. Одним из способов избежать подобного повторения является применение слов-заместителей that, one, do, и there.

Substitute word	Word to be substituted	Example
one/ones	person/ thing	See those two girls? Helen is the one on the left / the tall one . Let's fill in the case histories. The ones the lecturer has given you.
that/those (formal)	person/ thing	The curriculum here is like that in Cambridge. Skeletal muscles are those attached to the skeleton.
do (do it, do so)	action	Can you help me with this report? – I'll do it (= help you with this report) at once.
there	place	Are you going to the clinic today? – Yes. – Then I'll see you there.

При замене существительных one/ones и that/those, мы выбираем one/ones при использовании с прилагательными или самостоятельно, и that/those — в сочетаниях с предлогом. (См. примеры выше.) Мы часто употребляем one и ones после Which ... in questions:

e.g. You can borrow a book. Which **one** do you want?

There are lots of books here. Which **ones** are yours?

Мы используем **do so** и **do it / that** в качестве заместителей глагольных сочетаний.

e.g. I asked her to take part in the preparation for the concert but she didn't want to **do so**.

- 1. Замените повторяющиеся слова или выражения словами *one, ones, that, those, there, do,* где это возможно. Подчеркните слова, которые нужно заменить, и напишите словозаместитель, которое вы выбрали.
- e.g. The students I like to teach are <u>the</u> <u>students</u> who like to learn. the ones / those
- 1. Have you met our new lecturer? Is she the new lecturer who joined us last week?

2. The temperature in the boy is higher than the

3. I would like to spend summer working as a nurse assistant at some large hospital to get more experience. – Oh, I would like to spend summer working as a nurse assistant at some large hospital to get more experience, too.

temperature in the girl.

- 4. Let us go to the Natural History Museum tomorrow. But I don't want to go to the Natural History Museum. Let's go to some other place.
- 5. There are three very important reports in the latest treatise. Which very important report would you like to start with?
- 6. The blood pressure on the left arm was a little bit higher than the blood pressure on the right arm.
- 7. Which computer did you use? I used the computer that is in your surgery.
- 8. Have you examined all the patients on your ward round? No, I've examined only the patients in wards 5, 6 and 7.
- 9. My patient weighs 130 kg. In case of obesity, it is strongly recommended to go to the dietician to correct the diet. Then, I would advise my patient to go to the dietician to correct the diet.

10. Which job	are you dreaming	about? - The
well-paid job		

2. Дополните предложения словами one, ones, that, those, do, there.		
1. How old are my children? The younger is five and the elder is ten.		
The University clinic is much more modern than in the centre of the city.		
3. The new stethoscopes are much more convenient than the older		
4. And now, dear students, I would like to tell some words to who weren't present at my last lecture.		
5. It doesn't matter what hospital it is, I just want the that will help me.		
6. Which would you prefer, this or that?		
7. Examples of human organ systems include the circulatory, digestive, and nervous		
8. I need new glasses. The I have now are broken.		
9. I hope this holiday will be the to remember.		
10. You may take any three journals. Which would you choose?		
11. Are you going to the International Congress of Psychiatrists next month? – No, I am not going I'll be very busy then.		
12. There is residency in neurosurgery and in obstetrics. Which would you prefer?		
13. I hope someone will take the prescription for aspirin from Dr Myles. – Oh, I'll it right now.		
14. There are three beds in Ward 11. Where should I put Mrs Darling? – On the between the windows.		
15. The digestive system is the that changes food into simpler compounds that can be used by the cell.		
16. Have you ever been to the Cross-Bones Café? – Not yet – That's for the best. Never go		

_____. It's absolutely horrible.

Checklist

Оцените, чему вы научились в этом уроке. Отметьте (✓) утверждения, которые справедливы для вас.

- I know the names of the basic types of tissues
- I can describe the structure of the organs of the human body
- can use the substitute words one-ones; that-those, do, there

Key Words

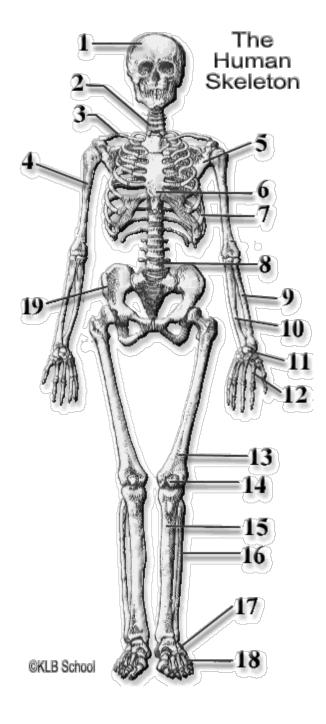
barrier n /`bærɪə/ circulatory adj / seɪkju`leɪtərɪ/ connective adj /ka`nektɪv/ digestive adj /dai`dzestiv/ ectoderm n / ektə də:m/ endoderm n / endə də:m/ epithelial adj / epi \θi:liəl/ excretory adj /ık`skri:tərı/ fibrous adj /`faibrəs/ germ *n* /ʤə:m/ histology *n* /his`talədʒi/ histopathology *n* / histəpə θalədʒi/ lining *n* /`laɪnɪn/ mesoderm n / mezə, də:m/ organ n /`ɔ:qən/ /mzinegism // n mainspin reproductive adj / ri:prə`dʌktɪv/ respiratory adj /ri`spirətəri/ slide v/slaid/ smooth adj /smu:ð/ strand n /strænd/

Просмотрите еще раз материал урока. Запишите другие слова и выражения, которые могут оказаться для вас полезными, и выучите их.

In this unit

- names of the main bones of the human body
- describing the processes of bone formation and growth
- Perfect Passive

Lead-in



1. Это интересно

- Eighty bones protect the vital organs of heart, lungs, spinal cord, and brain.
- Children with broken bones heal much faster than adults. A bone that requires three to five months for healing in an adult will mend in four to six weeks in a child.
- The spinal column consists of a series of 26 individual bones, or vertebrae.
- Motorcycle accidents account for one injury to the skeletal and muscular systems in every 7,000 hours of biking; horseback-riding accidents account for one injury in every 2,000 hours of riding—three and one-half times more than motorcycling.
- Osteoclasts consume old and worn bone matter; osteoblasts manufacture new bone tissue. Both are important to good bone health.

2. Обозначьте основные кости тела человека.

2. Обозначьте основные кости тела человек
The Major Bones of the Human Body
A. Scapula [`skæpjulə]
B. Knee cap [`ni: kəp]
C. Tibia [`tıbıə]
D. Neck vertebra [`nek `və:tıbrə]
E. Tarsals [`ta:slz]
F. Humerus [`hju:mərəs]
G. Sternum (breastbone) [`stə:nəm]
H. Lumbar [`lʌmbə] vertebra
I. Clavicle [`klævıkl]
J. Radius [`reɪdjəs]
K. Rib [rɪb]
L. Wrist [rɪst] bones
M. Pelvis [`pelvis]
N. Skull [skʌl]
O. Metacarpals [,metə`ka:pəlz]
P. Femur [`fi:mə]
Q. Ulna [`ʌlnə]

3. Прочитайте текст о костях и подготовьтесь ответить на вопросы, вынесенные в заглавия разделов текста.

S. Metatarsals [`metə`ta:slz]

Q. Fibula [`fi:bjulə]

About 6.8 million people seek medical attention each year for injuries involving the skeletal system.

Reading

The Skeleton

How many bones are there in the human body?

The adult human skeleton is **made up of** 206 bones. A baby is actually born with about 300 bones but many **fuse** together as it grows up. The skeleton consists of the **skull**, the **spinal column**, the ribs, and the **sternum**. The skull consists of eight **cranial** bones and 14 bones of the face. Skull bones are joined by nonmoveable joints (sutures), except for the joint between the lower jaw (mandible) and the temporal bone of the cranium, the **temporomandibular** joint.

The 26 vertebrae of the spinal column are divided

into five regions: **cervical** (7); **thoracic** (12); **lumbar** (5); the **sacrum** (5 fused); and the **coccyx** (4 to 5 fused). Between the **vertebrae** are disks of cartilage that add strength and **flexibility** to the spine. The spine, the **ribs** and the **breastbone** form the chest (thorax). The bones of the upper extremity are attached to the spine by the shoulder girdle, while the bones of the lower extremity are attached to the

What are the bones of the skeleton made of?

spine by the pelvic girdle.

In the human **embryo** the skeleton is made of cartilage, a **firm** but elastic material (in an adult, cartilage supports the ear). Cartilage is made up of non-elastic fibres called collagen, mixed with elastic fibres.

Gradually the bones develop **depositing** a hard mineral called calcium phosphate. This is called **ossification**. The final bone is made up of this mineral and the firm collagen fibres.

The collagen fibres are necessary for the bone neither to be too hard nor to break very easily. The minerals are necessary for it not to be too flexible so that it could **support** and protect other parts of the body.

What are the functions of the skeleton?

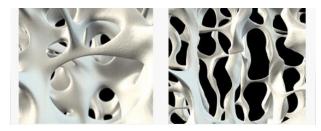
- Support: The skeleton keeps the human body in the correct shape, supporting many internal organs and the muscles of the body.
- Protection: Important and delicate organs are protected by bone. Examples include the skull protecting the brain and eyeballs, the ribs protecting the heart and lungs, and the spinal column protecting the spinal cord.
- Movement: Many muscles are set in pairs so they pull one bone towards another. The bones are arranged as levers so a small contraction in the muscle produces a large movement in the bones. Joints between the bones allow the movement to be smooth, without friction.
- Blood cell production: Blood cells are produced in the red bone marrow inside the larger bones of the body.

How can broken bones repair themselves?

Bone is a living material and can repair itself when it is broken or fractured. Small bones such as the ribs can repair themselves quickly but a large bone such as a femur can take a long time.

What can weaken bones?

If a child's diet is low in calcium or vitamin D the bones will grow but ossification is not completed. This deficiency disease is called *rickets*. During old age, both the organic and inorganic components of bone decrease, producing *osteoporosis* - a reduction in the quantity of bone (atrophy of skeletal tissue). Hence, the bones become brittle, lose their elasticity, and fracture easily.



Normal bone VS Osteoporotic Bone

Vocabulary Practice

1. Объясните значение выделенных слов из текста на предыдущей странице.

2. Запомните общеупотребительные слова для обозначения некоторых костей.

English name	Anatomical name
skull	cranium
jaw bone	mandible
spine	vertebral column
breastbone	sternum
rib	costa
collarbone	clavicle
shoulder blade	scapula
thigh bone	femur
kneecap	patella
shinbone	tibia

3. Составьте словосочетания со словами из таблицы. Используйте каждое слово только один раз.

•	
support, protect, allow	, fuse, deposit, break,
repair	, take
1.	calcium phosphate
2	the heart and
	lungs
3	easily
4	oneself
5.	the movement
6.	together
7	internal organs
8	a long time
8	_

4. Подберите антонимы к словам из столбика

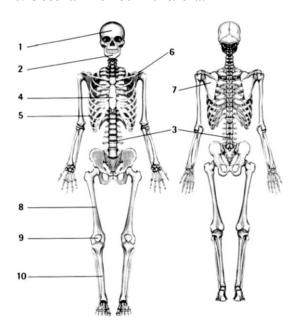
11.	
Column A	Column B
1. baby	a. non-elastic
2. elastic	b. repair oneself
3. flexible	c. firm
4. be broken	d. large
5. small	e. adult

5. Работа в паре.

Ask and answer questions about the skeleton and its parts (the chest, the spine, the upper/lower limb). Use the following structures:

- 1. What do/does ... consist of? = What is/are ... made up of?
- 2. Where is/are ... located?
- e.g. What **does** the spine **consist of**? = What **is** the spine **made up of**? The spine is made up of neck, thoracic, lumbar, sacral vertebrae and the coccyx.

6. Обозначьте кости скелета.



 breastbone
collarbone
jaw bone
kneecap
rib
shinbone
shoulder blade
skull
spine
thigh bone

7. Закончите предложения, используя present или past participles глаголов из таблицы. Используйте каждое слово только один раз.

deposit, connect, pull, divide, repair, support, compose, protect

The chest is made up of the sterned the heart and the	
2. The bones develop	calcium
phosphate.	
3. Muscles contract	_ one bone
towards another.	
4. Cartilage is a firm but elastic mater	ial
the ear in the adult.	
5. Bone is a living material	itself
when it is fractured.	
6. All the vertebrae of the spine are	
into 5 regions.	
7. The coccyx is	_ of 4 to 5
fused vertebrae.	
8. The lower extremity is	to the

spine with the pelvic girdle.

Language Development

- 1. Какие предложения верны (T)? Где допущены ошибки (F)? Исправьте неверные утверждения.
- 1. There are about 300 bones in the human body.
- 2. Cartilage consists of collagen.
- 3. Blood cells are produced inside the bones.
- 4. Bones cannot repair themselves.
- 5. Vitamin D deficiency causes osteoporosis.
- 6. The spinal column has 48 vertebrae.
- 7. Skull bones are joined by immoveable joints.
- 8. All the bones can quickly and easily repair themselves.
- 9. The deposits of calcium potassium make bones firm.
- 2. Просмотрите текст еще раз и ответьте на вопросы.
- 1. What is the skeleton made up of?
- 2. What are the major bones of the skeleton?
- 3. What does the skull consist of?
- 4. What is the spine made up of?
- 5. What is the upper (lower) extremity connected with the spine with?
- 6. How do bones change as a human grows?
- 7. What substances does a bone consist of?
- 8. What are the main functions of the skeleton?
- 9. What diseases of the bones do you know? What are they caused by?
- 3. а. Прочитайте текст и выполните задания.

Osteoporosis

Millions of women all over the world — most often older women — suffer from such disease as osteoporosis. It is a condition in which the bones are weakened due to a decrease in bone mass that makes up the skeleton. As a rule this process starts after 35 years of age and leads to an increased risk of bone fracture.

Key risk factors for osteoporosis include genetics, lack of exercise, lack of calcium and vitamin D, cigarette smoking, excessive alcohol consumption, low body weight, and family history of osteoporosis. Patients with osteoporosis have no symptoms until bone fractures occur.

There are certain measures that everyone can take to avoid osteoporosis, such as lifestyle changes and sometimes medication. Lifestyle changes include diet, exercise, stopping use of alcohol and cigarettes, preventing falls. Medication includes calcium, vitamin D, and some others.

Very inactive people, such as those confined to bed, lose bone mass 25 times faster than people who are moderately active. Thus, regular, moderate, weight-bearing exercise like walking or jogging is a good way to maintain bone strength.

b. Найдите в тексте слова с таким значением:

broken bone
become less
appear
to be kept in bed for some time
с. Задайте вопрос к каждому абзацу текста. Ваш партнер должен на них ответить.
d. Составьте план текста, озаглавив каждый абзац. Перескажите текст по плану.

4. Проект.

At present, to help people with mobility disorders, scientists are working on the so-called exoskeleton. Surf the Internet and find out what kind of a device this is, what functions it can fulfil and when it will become (or has become) available to patients. Prepare a short speech or essay.

Grammar in Use

Present Perfect Passive

		Schill Chick	-	. 400110	
		Positiv	/e		
I / We /	You /	have			
They			b	een examined.	
He / Sh	ne / It	has			
		Negati	ve		
I / We /	/ Vou /	haven't	l		
They	Y YOU /	navent	been examined.		
He / Sh	ne / It	hasn't			
		Questic	n	S	
	have	I / we / yoι	J		
(Why)		/ they		been examined?	
	has	he / she / it			

Past Perfect Passive

		astren	UUL		200110
		Pos	sitiv	'e	
I / We / They / She / It	He /	had	had been examined.		
Negative					
I / We / They / She / It	He /	hadn	hadn't been examined.		
		Que	stio	ns	5
(Why)	had	I / we / y they / he she / it		/	been examined?

Future Perfect Passive

		Positive			
I / We / They / She / It	He /	will have	been examined.		
		Negative			
They /	I / We / You / They / He / She / It won't have been examined.				
		Question	S		
(Why)	will	I / we / you / they / he / she / it	have been examined?		

- 1. В данных предложениях использовано формальное подлежащее. Трансформируйте предложения, употребив глаголы в Perfect Passive.
 - e.g. Someone **has brought** the book. The book **has been brought**.

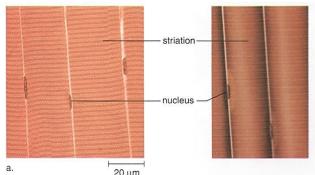
1. They had finished the job by 5 p.m. yesterday.
2. They will have completed the course of physiotherapy by June.
Someone has already delivered a lecture on osteoporosis.
4. Has anyone taken an x-ray of the broken bone?
5. Had anyone treated your arthritis before you were admitted to our hospital?
6. I think they won't have decreased this patient's BP by evening.
7. They haven't discharged Mr Jones yet.
8. Something has weakened this child's bones.
9. They will have examined all the patients by 10 a.m.
10. They haven't discussed Vitamin D deficiency vet.

2. Употребите глаголы, данные в скобках, в	Checklist
правильной форме Perfect Active или Passive.	Оцените, чему вы научились в этом уроке.
1. The spinal column just	Отметьте (✓) утверждения, которые
(to x-ray).	справедливы для вас. • I know the names of the main bones of
	 I know the names of the main bones of the human body
2. I think we	 I can describe the processes of bone
(to complete) the report by tomorrow morning.	formation and growth
	I can understand the text about
3 the baby (to examine) by a neurologist before she had this	osteoporosis
	 I can use Perfect Passive
attack?	
4 you ever (to be) to	Key Words
an A&E department earlier?	Key words
	breastbone <i>n</i> / brestboun/ = sternum <i>n</i>
5. The physician thinks that the bones	/`stə:nəm/
(to weaken) due to osteoporosis.	cervical <i>adj</i> /`sə:vɪkl/
	coccyx n / kaksiks/
6. The x-ray showed that the tibia	cranial adj /`kreiniəl/
(to break) several months	cranium $n / \ker n = \text{skull } n / \text{skal} /$
before.	delicate adj /`delikət/
	deposit <i>n</i> , <i>v</i> /dı`pazıt/
7. Many bones	embryo n /`embriəu/
7. Many bones(to fuse) by the end of the first year.	eyeball n /`aɪbɔ:l/
	firm adj /fə:m/
3. Закончите вопросы, употребив глаголы в	flexibility n /fleksi`biliti/
Past или Present Simple. Легко ли перевести такие предложения на русский язык?	fuse v /fju:z/
Skeleton Jokes	lumbar <i>adj </i> `lʌmbə/
Q (question): Why the skeleton	make up /meɪk ʌp/
(not to dance) at the Halloween party?	ossification n /ˌɒsɪfɪ`keɪ∫ən/
A (answer): It had no body to dance with.	osteoporosis n'/astiaupa`rausis/
Q: What the skeleton (to say)	pelvic girdle /`pelvik gə:dl/
when his brother told a lie?	sacrum n /`seɪkrəm/
A: You can't fool me, I can see right through you.	shoulder girdle /`ʃəuldə gə:dl/
Q: Who (to be) the most famous	skeleton n /`skelitən/
skeleton detective?	spinal column /`spaməl `kaləm/
A: Sherlock Bones.	spine <i>n</i> /spaɪn/
Q: Who (to be) the most famous	temporomandibular adj / tempərəmən `di:bjulə/
French skeleton?	thoracic adj /θo:`ræsɪk/
A: Napoleon Bone-apart	vertebra (vertebrae) n /`və:tɪbrə (`və:tɪbri:)/
Q: What instrument skeletons	,
(to play)?	
A: Trom-BONE.	
Q: What the skeleton (to say) to his girlfriend?	Просмотрите еще раз материал урока.
A: I love every bone in your body!	Запишите другие слова и выражения,
Q: Why skeletons (not to	которые могут оказаться для вас полезными
play) music in church?	и выучите их.
A: They have no organs!	
Q: What (to be) a skeleton's favourite	
pop group?	
A: Boney M!	
Q: What (to happen) to the	
skeleton who went to a party?	
A: All the others used him as a coat rack!	

In this unit

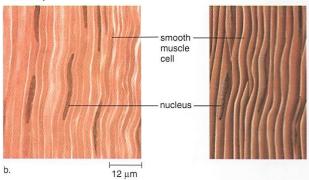
- names of muscles
- describing the growth of muscles
- · derivatives of some, any, no, every

Lead-in



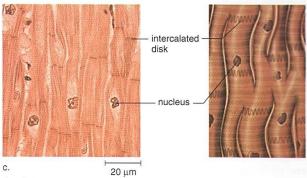
Skeletal muscle

- has striated cells with multiple nuclei.
- · occurs in muscles attached to skeleton.
- functions in voluntary movement of body.
- voluntary



Smooth muscle

- has spindle-shaped cells, each with a single nucleus.
- cells have no striations.
- functions in movement of substances in lumens of body.
- involuntary.



Cardiac muscle

- has branching striated cells, each with a single nucleus.
- · occurs in the wall of the heart.
- functions in the pumping of blood.
- involuntary.

1. Это интересно:

- The body contains roughly 630 skeletal muscles.
- The skeletal muscles account for roughly 50 percent of the body weight in men, 40 percent of the body weight in women, and 25 percent of a baby's body weight.
- After age 50, people lose about 10 percent of their muscle fibres per decade.
- Resting muscles receive about 20 percent of blood flow.
- During heavy exercise, the muscles receive from 60 to 85 percent of blood flow.
- Five to ten percent of a person's body weight is heart and smooth muscle.
- A fast-twitch muscle reaches peak contraction in about 1/20 of a second.
- A slow-twitch muscle reaches peak contraction in about 1/10 of a second.
- A single motor unit can range from two to three muscle fibres in the larynx to 2,000 fibres in the hamstring.
- You have all the muscle fibre you will ever have at birth. Once damaged they can't be replaced.
- 2. Прочитайте текст о мышцах. Выберите из списка утверждений A-F те, что лучше всего отражают содержание каждой части текста. Здесь есть одно лишнее утверждение, которое вам не понадобится. В начале текста приведен пример (0).
- A. What is muscle?
- B. The structure and main functions of smooth and cardiac muscles.
- C. Two types of muscle fibres.
- D. Two different ways of muscle contraction.
- E. The main functions of voluntary muscles.
- F. The growth in muscle size and muscle tension.

Reading

Muscles

0. What is muscle?

Muscle is a soft tissue. The term *muscle* is derived from the Latin *musculus* meaning "little mouse" perhaps because of the shape of certain muscles or because contracting muscles look like mice moving under the skin. Muscle cells contain protein *filaments* that slide past one another, producing a contraction that changes both the length and the shape of the cell. Muscle function is to produce force and cause motion. They are primarily responsible for changes in posture, locomotion of the organism itself, as well as movement of internal organs, such as the contraction of the heart and movement of food through the digestive system. There are three types of muscle within the human body.

1.

Skeletal muscle is the type of muscle that we can see and feel. Skeletal muscles attach to the skeleton and come in pairs -- one muscle to move the bone in one direction and another to move it back the other way. Skeletal muscles are also sometimes called voluntary muscles, because we have direct control over them through nervous impulses from our brains sending messages to the muscle. Skeletal muscles have the ability to stretch or contract and still return to their original shape.

2.

Smooth muscle is found in the digestive system, blood vessels, bladder, and airways. Smooth muscle has the ability to **stretch** and maintain **tension** for long periods of time. It contracts **involuntarily**, meaning that you do not have to think about contracting it because the nervous system controls it automatically.

This muscle type is stimulated by involuntary neurogenic impulses and has slow, rhythmical contractions used in controlling internal organs, for example, moving food along the esophagus or contracting blood vessels.

Cardiac muscle is found solely in the walls of the heart. It has similarities with skeletal muscles in that it is striated and with smooth muscles in that its contractions are not under conscious control. Cardiac muscle is highly resistant to fatigue due to the presence of a large number of mitochondria, myoglobin and a good blood supply.

3.

Muscles are made of **bundles** of fibres. These can be either fast twitch or slow twitch. **Fast twitch fibres** are used for powerful, fast movements. This however means they get tired quickly. Athletes who are good at short events which require speed and power will have a higher number of fast twitch fibres. **Slow twitch fibres** are good for **endurance** activities. They contract slowly with less force, but do not tire so easily. Long distance runners tend to have more of these fibres.

Everyone has a similar number of muscle fibres. People with larger muscles have larger fibres, not more of them.

4.

Performing exercises and being active in our daily life can cause our muscles to get stronger. As already mentioned, strong people have larger muscle fibres. This growth in muscle size is called **hypertrophy**. If we do not use our muscles regularly, the opposite can happen and the muscles reduce in size. This is called **atrophy**.

Muscles are always slightly under tension, to enable us to hold a position, such as sitting upright. This small amount of muscle tension is known as **muscle tone**. Exercise improves muscle tone.

Vocabulary Practice

1. Объясните значение выделенных слов из текста на предыдущей странице.

2. Найдите определения для данных слов и словосочетаний.

Сповосочетании	l•
1. voluntary	a. strain
2. involuntary	b. to make a sudden quick movement that you can't control
3. to stretch	c. done without exercise of the will
4. tension	d. done of one's own free will
5. to twitch	e. to extend, to make smth longer
6. filament	f. a number of things tied together
7. bundle	g. a long thin wire
8. endurance	h. tolerance

3. Тест: выберите правильный ответ.

- 1. Skeletal muscles are also known as
- a. involuntary muscles
- b. smooth muscles
- c. voluntary muscles
- 2. Cardiac muscle is found solely in the walls of
- a. the heart
- b. the esophagus
- c. the bladder
- 3. The small amount of muscle tension is known as
- a. atrophy
- b. muscle tone
- c. hypertrophy
- 4. Fast twitch fibres are used for powerful, fast movements but they
- a. get tired quickly
- b. get tired slowly
- c. are highly resistant to fatigue
- 5. People with larger muscles have
- a. less fibres
- b. more fibres
- c. bigger fibres

4. Соотнесите вопросы и ответы.

- 1. What are the three types of muscles?
- 2. What are the three characteristics of skeletal muscles?
- 3. Which type of muscle is unstriated?
- 4. Which muscle types are involuntary?
- 5. Where is smooth muscle found?
- 6. What do muscle cells contain?
- 7. What are muscles made of?
- a. walls of hollow organs and blood vessels.
- b. cardiac, smooth.
- c. smooth muscle.
- d. voluntary contractions, attached to bones, striated appearance.
- e. skeletal, smooth, cardiac.
- f. bundles of fibres.
- g. protein filaments.

1	2	3	4	5	6	7
е						

5. Дополните текст словами из таблицы.

control, muscle, heart, smooth, walls, fatigue, skeletal, blood, voluntary, striated, direct

There are three types	of muscle within the
human body: 1	muscle is
attached to our skeleto	
move our body parts.	They are called 2.
mu	scles as they are under
our control. They are s	ometimes also called 3.
as	s they have a stripy
appearance.	
Smooth muscle is not	under our
4 contro	I and contracts of its own
accord. It is situated in	the 5of
	uch as the stomach and
6 vess	els. It is called
	loes not share the same
	skeletal 8
Cardiac muscles are for	
9and n	
specialised type of mu	
continuously and is no	t under our
10	Cardiac muscle is highly
resistant to 11.	<u> </u>

Language Development

1. Закончите предложения, используя
информацию из текста о мышцах.

Muscle function is to produce
Muscles are primarily responsible for
3. Fast twitch fibres are used for
4. Slow twitch fibres are good for
5. The growth in muscle size is called
6. If we do not use our muscles regularly, the muscles reduce in size. This is called
7. The small amount of muscle tension is known as
8. The term <i>muscle</i> is derived from
9. There are three types of muscles within the human body:

2. Определите тип мышц и волокон.

- 1. They have the ability to stretch and maintain tension for a long period of time. They contract involuntary.
- 2. They are good for endurance activities; they contract slowly with less force.
- 3. They are highly resistant to fatigue due to the presence of a large number of mitochondria.
- 4. They are used for powerful fast movements; they get tired quickly.
- 5. This type of muscles we can see and feel; they attach to the skeleton and come in pairs.
- a. skeletal
- b. cardiac
- c. fast twitch fibres
- d. slow twitch fibres
- e. smooth

1	2	3	4	5
e				

3. Просмотрите текст еще раз и ответьте на вопросы.

1. What is muscle?
2. What do muscle cells contain?
3. What is the main function of muscles?
4. What are the muscles responsible for?
5. What are the main types of muscles?
6. Where can skeletal muscle be found?
7. How does smooth muscle contract?
8. What similarities do cardiac and skeletal muscles have?
9. What is the difference between fast twitch fibres and slow twitch fibres?
10. What is hypertrophy?
11. What is the cause of atrophy?
12. What can improve muscle tone?

4. Прочитайте и переведите интересные факты о ваших мышцах.

- 1. The hardest working muscle is in the eye.
- 2. Arnold Schwarzenegger has as many muscle fibres as you they're just thicker!
- 3. We need 72 muscles to speak.
- 4. The strongest muscle of the body is the masseter muscle used for chewing!
- 5. If all your muscles could pull in one direction you could create a force of 25 tons!
- 6. The human tongue consists of sixteen separate muscles, not one as many people think.

5. Проект.

Imagine that a patient (or a friend) asks for advice on how to build muscles. What would you recommend? Is it a good idea at all? Surf the Internet and prepare a short speech or essay.

Grammar in Use

Неопределенные местоимения

For people		For things
-body	-one	-thing
somebody anybody everybody nobody	someone anyone everyone no one	something anything everything nothing

Мы используем неопределенные местоимения, когда называем предметы или людей, не уточняя, кого или что именно мы имеем в виду:

e.g. **Everybody** enjoyed the lecture. I opened the ward but there was **no one in**.

Мы используем глагол в единственном числе после неопределенных местоимений:

e.g. Everybody **knows** the answer. Everything **was** ready for the operation.

Мы можем добавить **-'s** к неопределенному местоимению, чтобы образовать притяжательную форму.

e.g. I'll take **somebody's** stethoscope. I left mine at home.

Мы используем неопределенные местоимения с **по-** как подлежащее в отрицательных предложениях (а не местоимения с **any**.)

e.g. **Nobody** could make this task.

Мы не используем другие отрицания в предложениях с *nobody*, *no one* или *nothing*:

e.g. Nobody came. Nothing happened.

Мы используем *else* после неопределенных местоимений, чтобы назвать людей или предметы, **помимо тех**, о которых мы уже упоминали.

e.g. All the students came but no one **else**. Would you like anything **else**?

Мы используем неопределенные местоимения somewhere, anywhere, everywhere, nowhere, когда говорим о месте.

e.g. I could find my phone **nowhere**. His students go **everywhere** with him. The patient had to stay at the ICU as **everywhere else** was fully occupied.

N.B. Выбор *some/any* зависит от типа предложения. Смотри Unit 3 (Essential English for Medical Students, Part 1)

1. Закончите предложения, используя слова someone, anyone, something, anything, somewhere, anywhere.

1. I've got	in my eye.
2. There is	in the waiting area.
3. We haven't heard Peter of late. Is he ill?	about
4. Has	seen my report?
5. Does Jane livecentre?	in the
6v	wants to see you.
7. My pencil won't write's pe	Can I take ncil?
8. I'm tired of holidays ir el	
9. He told mecouldn't hear him well.	but I
10. So, there is a micros of blood But we need else.	
2. Закончите предложен в правильной форме.	ния, употребив глагол
1 anyone know) Kate's e-mail?	e(to
2. No one the laptop now so you m	(to use) nay take it.
3 (to be) everyour module testing in anator	one ready for the my?
4. Can you imagine this (to do) my	
5 everyone _ participate) in the Stude spring?	(to nts' Conference next
6. He is very stubborn. N	
7. Let me know if anythi (to happen).	
8. There (to be about his condition.	e) something unusual
9. Everything professor put me a bad	

3. Закончите предложения, употребив правильное неопределенное местоимение.

1. There is a bug.	in your hair; I think it's
2. My speech was բ went as I wished.	perfect
3 is sait at any place.	fe from the flu. You can catch
4. He didn't say known all these thir	new. I had ngs before.
5. Are you looking f	or your workbook? I think it's on the shelf.
6. I will do best friend.	for you. You are my
7. Oh, I've found the Internet. This is lymphatic system.	interesting on a nice picture of the
8 useful. It died.	_ we did to help the dog was
9. My dictionary wa has	
	I fail at the exam. She did yesterday, but just slept all

4. Спрашивайте и отвечайте на вопросы партнера, чтобы заполнить таблицу в разделе Lead-in на стр. 138.

day long.

Lead-in на стр. 138.		
About 200 BC	Chinese scientists learnt	
	about the circulation of blood	
1492	Doctors of Rome performed	
	the first blood transfusion.	
	They gave blood from three	
	boys to the Pope. The boys	
	and the Pope all died.	
1818	British doctor James	
	Blundell made the first	
	successful human blood	
	transfusion.	
1901	Austrian Karl Landsteiner	
	discovered three main	
	human blood groups – A, B,	
	and O.	
1940	Karl Landsteiner discovered	
	the Rhesus factor.	
1962	Max Perutz was awarded	
	the Nobel prize for his	
	discovery of haemoglobin.	

Checklist

Оцените, чему вы научились в этом уроке. Отметьте (\checkmark) утверждения, которые справедливы для вас.

- I can talk about types of muscles
- I can describe the functions of three types of muscles
- I can form and use derivatives of *some*, any, no, every

Key Words

atrophy n /`ætrəfi/ bundle n / bandl/ cardiac muscle /`ka:dıək masl/ endurance *n* /ɪn`djuərəns/ esophagus n /ı`safəqəs/ fast twitch fibre /fa:st twitf `faibə/ filament *n* /`filəmənt/ force *n* /fɔ:s/ hypertrophy *n* /hai`pə:trəfi/ involuntary adj /ɪn`valəntrı/ motion *n* /`məu[ən/ muscle *n* /masl/ muscle tone /masl taun/ skeletal muscle /`skelətəl masl/ slow twitch fibre /slau twitf `faiba / smooth muscle /smu:ð masl/ stretch n, v /stretf/ striated adj /strai`eitid/ tension *n* / ten [ən/ voluntary *n* /`valəntrı/

Просмотрите еще раз материал урока. Запишите другие слова и выражения, которые могут оказаться для вас полезными, и выучите их.

In this unit

- talking about composition of blood
- describing the functions of the three types of blood cells
- coordinating double conjunctions both...and; either...or; neither...nor; not only...but also

2. Это интересно:

- Blood is a connective tissue in which the matrix is plasma.
- Every second, 10 million red blood cells die in the normal adult. The body replaces them just as quickly, however, so the total number remains constant.
- Blood is three to four times more viscous than water.
- As the heart contracts and blood rushes into the aorta, it is travelling at a speed of about 20 centimetres per second.
- Even in a person who is resting, blood issuing from the heart can travel down to the person's toes and back to the heart in just a minute. When a person is exercising heavily, that trip can take just 10 seconds. On average, every red blood cell completes the heart-to-body-tolungs circuit 40-50 times an hour.
- A red blood cell gradually wears out and dies in about 120 days, so these cells must be constantly replaced.
- Each red blood cell contains approximately 300 million molecules of haemoglobin.

Lead-in



1. Что нам известно о крови? Работа в парах. Студент А изучает информацию на стр. 100, студент В – на стр. 99. Задавайте друг другу вопросы, например: What happened in 200 BC? What did Chinese scientists do? Отмечайте ответы.

Time	Person	
About 500 BC	Alcmaeon	
About 200 BC	Chinese scientists	
1492	Doctors of Rome	
1658	Jan Swammaedam	
1818	James Blundell	
1874	William Ostler	
1901	Karl Landsteiner	
1912	Roger Lee	
1917	Oswald Robertson	
1940	Karl Landsteiner	
1948	Dr Carl Walter	
1962	Max Perutz	

Reading

Blood

1. What is blood?

Blood is more than just a simple, red liquid. It is actually a clear, somewhat gold-coloured, protein-rich fluid crowded with red and white cells.

Blood circulates through the vessels, bringing oxygen and nourishment to all cells and carrying away waste products. The total adult blood volume is about 5 litres. Whole blood can be divided into two main components: the liquid portion, or **plasma** (55%), and formed elements, or blood cells (45%).

2. Blood plasma

Plasma is about 90% water. The remaining 10% contains nutrients, **electrolytes** (dissolved salts), gases, **albumin** (a protein), clotting factors, antibodies, wastes, enzymes, and hormones.

The plasma serves as the liquid in which the red and white blood cells, as well as other chemical compounds travel throughout the body.

3. Blood cells

The blood cells are **erythrocytes**, or red blood cells; **leukocytes**, or white blood cells; and **platelets**, also called **thrombocytes**. All blood cells are produced in red **bone marrow**. Some white blood cells multiply in lymphoid tissue as well.

Erythrocytes

Erythrocytes are small, disk-shaped cells without nuclei. Their concentration of about 5 million per mL (cubic millimetre) of blood makes them by far the most numerous of the blood cells. They must be **flexible** as well, because they have to bend, twist and deform in order to squeeze through tiny capillaries.

The presence of the red pigment **haemoglobin** makes the cells red, and in turn, makes the blood red.

The major function of erythrocytes is to transport oxygen and carbon dioxide. After a human breathes in oxygen, the red blood cells deliver it to the tissues. As tissue cells use the oxygen, carbon dioxide begins to accumulate.

The red blood cells then pick up the carbon dioxide waste product and transport it back to the lungs, where it is discharged during exhalation.

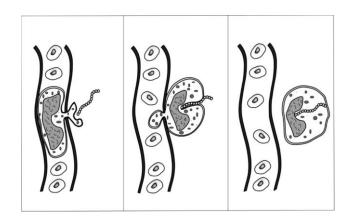
Leukocytes

White blood cells have a completely different function than red blood cells. They protect the organism against foreign substances. Leukocytes engulf and destroy the bacteria or other foreign bodies invading the organism. This process is called **phagocytosis**.

In contrast to red blood cells, leukocytes are larger in size and have a nucleus. They total about 5,000 to 10,000 per μ L (*microliters*), but their number may increase during infection. In diagnosis it is important to know the total number of leukocytes because the change in their number can indicate different disease conditions.

Platelets

The blood platelets (thrombocytes) are fragments of larger cells formed in the bone marrow. They number from 200,000 to 400,000 per L of blood. Platelets are important in **haemostasis**, *i.e.* prevention of blood loss, a component of which is the process of blood clotting, also known as **coagulation**. When a vessel is injured, platelets stick together to form a plug at the site.



Phagocytosis. Leukocytes are primary players in the body's defence mechanism. Here, a leukocyte protrudes from a blood vessel and surrounds an invading bacterium. Once the bacterium is engulfed, it is destroyed. This process of engulfing and destroying materials is called phagocytosis.

Vocabulary Practice

1. Объясните значение выделенных слов из гекста на предыдущей странице. 2. Подберите термины к данным определениям.		щую информа	ацию.	чить педостаю-
	substance of erythrocytes -	 A red blood How long 	cell lives for abo	out ?
2. a fluid tissue with many different functions -		a. 4 days	b. 4 months	c. 4 years
z. a nuid tissue with	many different functions -	2. Your blood	travels about	kilometres
3. the white blood ce	ell	every day.		
4. blood cells which	have great flexibility -	How far		?
5. formation of clots		a. 200 km	b. 2,000 km	c . 20,000 km
6. the most numerou	us cellular elements of blood-	3 There are	wh	ite blood cells in
7 the process of cat	ching and destroying	a drop of bloo		ne blood cello ili
	tes -			?
8. a process that tak dividing cell	es place in the nucleus of a		b. 5 mln	
9. prevention of bloo	d loss -	4. Blood plasn	na is %	water.
10.a blood cell that o	destroys microorganisms -	What percenta	age of	?
11. formed elements	s of blood	a. 40%	b. 50%	c. 96%
2.05		5. There are _	litres	s of blood in an
<mark>3. Образуйте словос</mark> 1. bone	очетания. a. mechanism	adult human.		
2. waste	b . portion	How much		
3. blood	c. tissue	a. 5.6 L	b. 6.5 L	c. 4.5 L
4. lymphoid	d. loss/volume			
5. liquid	e. product			% of
6. disease7. defence	f. condition	the volume of		?
7. delence	g. marrow	vvnat percent	age or	=
		a. 90%	b . 40%	c. 55%
	имы к данным словам.	7 A nowborn	shild bas	ounful of
albumin - breathing in -		blood in its bo	child has	cupiui oi
breathing out -		How much		7
blood clotting -				
to throw off -		a. one	b. two	c. three
nutrition -		8 It takes	for	a human body to
fluid -		replace red ble		a numan body to
5. Составьте как мо	жно больше словосочетаний	How long		?
со словом "blood".	2010 0012			
olood count		a. 8 hours	b. 8 days	c. 8 weeks
		9. % of	blood is plasma.	
				?
		a. 45%	b. 55%	c. 50%
		10. Blood is _	% of your	body's weight.
		vvnat percenta	age	?

6. Тест. Работа в парах.

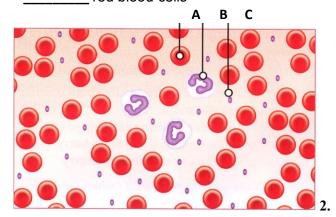
a. 10%

b. 25% **c.** 7%

Language Development

1. Определите тип клеток крови на рисунке.

_____ platelets
____ white blood cells
red blood cells

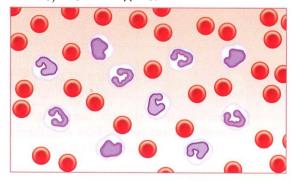


Найдите и исправьте еще 4 ошибки в этом описании.

circular

There are many rectangular red blood cells moving freely in the plasma. The centres of the red blood cells are a light colour and the cells are all the same size. There are three white blood cells in the diagram. They are more regular in shape than the larger red blood cells. There are many platelets in this drop of blood. They are the small, dark, oval-shaped bodies.

3. Кровь на этом рисунке поражена раком. Опишите, что вы видите.



4. а. Прочитайте текст об общем анализе крови (ОАК) и запомните новые слова.

Complete Blood Count (CBC)

In the investigation of blood diseases the simplest test is a **complete blood count** (**CBC**). A complete blood count measures the following in the sample of blood:

- the amount of haemoglobin
- the number of different cells red blood cells (erythrocytes), white blood cells (leukocytes) and platelets (thrombocytes)
- the volume of the cells
- the erythrocyte sedimentation rate
 (ESR) a measurement of how quickly red
 blood cells fall to the bottom of a sample of
 blood.

b. Закончите описание результатов ОАК, употребив слова из таблицы.

infection	haemoglobin	clot
platelets	red blood cells	
oxygen	white blood cells	

, , obee	acarec are married or	u		
that make	up the blood. It looks	at		
	1 - these take	2 from		
the lungs to	o the body's tissues, a	and take carbon		
dioxide aw	ay at the same time.	The CBC also		
measures	measures the amount of 3 (a			
protein in the cells that carries the oxygen), and				
looks at the	e size and shape of th	e cells.		
	4 - these protect	t the body		
against	5.			
6	these make the b	lood 7		

A CRC measures the number of different cells

5. Задайте вопросы собеседнику, чтобы заполнить таблицу на стр. 96 в разделе Lead-

in.	
About 200 BC	Chinese scientists learnt
	about the circulation of
	blood
1492	Doctors of Rome performed
	the first blood transfusion.
	They gave blood from three
	boys to the Pope. The boys
	and the Pope all died.
1818	British doctor James
	Blundell made the first
	successful human blood
	transfusion.
1901	Austrian Karl Landsteiner
	discovered three main
	human blood groups – A, B,
	and O.
1940	Karl Landsteiner discovered
	the Rhesus factor.
1962	Max Perutz was awarded
	the Nobel prize for his
	discovery of haemoglobin.

6. Просмотрите текст еще раз и ответьте на вопросы:

- 1. What is blood? What is its function?
- 2. What is blood composed of?
- 3. What is the role of plasma?
- 4. What is the major function of erythrocytes? leukocytes? platelets?
- 5. What makes the blood red?
- 6. What is phagocytosis?

7. а. Прочитайте диалог и ответьте на вопросы. Подготовьтесь воспроизвести его на занятии.

A Blood Test

N = nurse; P = patient

- N. How do you feel?
- **P.** Tired all the time, really never have any energy.
- N. Have you had a blood test before?
- P. No, I haven't, no. How much blood will you take?
- N. Oh, just enough to fill the syringe just five millilitres ...Well we've got the results of your blood test. As I thought, you're a little bit anaemic.
- P. Is that bad?
- N. No, not necessarily. It just means that your red blood cell count is a little on the low side. A normal count is about 4.2 to 5.4 million red blood cells per microlitre of blood, and yours was 3.9.
- **P.** Oh, dear what does that mean?
- N. Don't worry anaemia is very common in women. If you take iron supplements your red cell count should soon go up. The cells are normal in size and shape, so that looks good. Your white cells are a little high, but you've just had a sore throat, haven't you?
- P. Yes.
- **N.** Well, that's just a sign that your body's been fighting the infection, so that's fine. And platelets were normal.

b. Ответьте на вопросы:

- 1. How does the patient feel?
- 2. How much blood is the nurse going to take?
- 3. What problem does the test result show?
- 4. How many million red blood cells per microlitre does it show?
- 5. How can the patient correct the problem?
- 6. What is the shape of the red cells?
- 7. How is the patient's white blood cell count?
- 8. How are the platelets?
- 9. How did the nurse calm the patient?

8. Спрашивайте и отвечайте на вопросы партнера, чтобы заполнить таблицу в разделе Lead-in на стр. 96.

About	The Greek scientist Alcmaeon saw
500 BC	that arteries and veins were
	different.
1658	In Holland Jan Swammaedam
	used one of the first microscopes,
	and saw that there are different
	types of cells in the blood.
1874	William Ostler identified platelets.
1912	Roger Lee demonstrated that it is safe to give group O to patients of any blood group, and that blood from all groups can be given to AB patients.
1917	An American army doctor Oswald Robertson set up the first blood bank.
1948	Dr Carl Walter designed plastic bags for collecting and storing blood.

9. Проект.

Blood tests are now a part of a routine checkup. Everyone knows that we can determine lots of factors with the help of humble blood analysis. But is that all?

Surf the Internet and find out what biomarkers are and what diseases they help diagnose. When is a patient recommended to take blood tests?

Prepare a short speech or essay.

Grammar in Use

Двойные союзы

Двойные союзы соединяют два равных члена предложения или два равных придаточных предложения:

Double Conjunction	Example
bothand	The professor explained to the students both the diagnosis of the patient and his management.
eitheror	He knows nothing about either leucocytosis or phagocytosis.
neithernor	She could give neither intravenous nor intramuscular injections.
not only but also	This guy is not only a talented student, but also a very kind person.

1. Объедините два предложения в одно, используя двойные союзы. Не делайте ненужных повторов.

e.g. He likes chemistry. He also likes physics.(both...and) – He likes **both** chemistry **and** physics.

1. A complete blood count measures the number of different cells. A complete blood count measures their volume. (not only...but also)

Red blood cells travel in the plasma throughout
the body. White blood cells travel in the plasma
throughout the body. (bothand)

3. The doctor didn't administer painkillers. The doctor didn't administer hypnotics either.

(neither...nor)

_____·

4. You may see the dentist on Monday. However, you may see the dentist on Tuesday, too. (either...or)

Checklist

Оцените, чему вы научились в этом уроке. Отметьте (✓) утверждения, которые справедливы для вас.

- I can talk about composition of blood
- I can describe the functions of three types of blood cells
- I know what the complete blood count includes
- I can use coordinating double conjunctions both...and; either...or; neither...nor; not only...but also.

Key Words

adequate adj / ædakwat/ albumin *n* /`ælbjumɪn/ anaemia *n /ə`*ni:mɪə/ blood loss /blad las/ bone marrow /baun `mærau/ carbon dioxide /`ka:bən dai`aksaid/ clotting factor /`klatın `fæktə/ coagulation n /kəu`æqjuler[ən/ complete blood count /kəm`pli:t blad kaunt/ deliver v /dı`lıvə/ differential diagnosis / difə ren [əl daiəq`nəusis/ enzyme *n* /`enzaim/ erythrocyte /i $ri\theta$ rəusait/ = red blood cell (RBC) erythrocyte sedimentation rate /i`riθrausait _sedimən`teifən reit/ (ESR) exclude v/ik`sklu:d/ flexible adj /`fleksibl/ haemoglobin n / hi:mə`gləubɪn/ haemostasis n / hi:mə`steisis/ leukocyte /`lju:kəusaɪt/ = white blood cell (WBC) multiply v/\maltiplai/ phagocytosis n / fæqə sai`təusis/ plasma n /`plæzmə/ rare adj /reə/ thrombocyte /`\text{\text{\text{\$\text{\$\text{\$\text{\$}}}}} qramb\text{\text{\$\text{\$\text{\$}}}} ant/ = platelet n /`pleitlət/ vessel n /`vesəl/ waste (product) *n* /weist (`pradʌkt)/

Просмотрите еще раз материал урока. Запишите другие слова и выражения, которые могут оказаться для вас полезными, и выучите их.

Test Questions

- 1. About myself and my studies at a higher medical school.
- 2. A higher medical school where I study.
- 3. Students' studies and how they spend their free time.
- 4. Medical education in Russia.
- 5. Medical education in the USA and the UK.
- 6. Features of medical education in Russia and English-speaking countries (the USA and UK).
- 7. Names of different medical specialties and jobs of different specialists.
- 8. Daily routine of physicians.
- 9. Specific jobs of different specialists.
- 10. Healthcare system in the UK and the USA.
- 11. Features of healthcare system in Russia and English-speaking countries.
- 12. Ethics, medical ethics and bioethics.
- 13. The main principles and rules of medical bioethics.
- 14. Types of medical institutions providing health care.
- 15. Hospital departments and hospital jobs.
- 16. The work of the hospital staff.
- 17. Duties of a doctor in the hospital.
- 18. The procedure of clinical examination of patients.
- 19. The results of the physical examination of patients.
- 20. Different types of medical emergencies.
- 21. First aid procedures, instructions how to give first aid.
- 22. Different types of pharmacy.
- 23. The work of chemist's shops.
- 24. Types and forms of medications and ways of their storage.
- 25. Different types of medications.
- 26. The routes of drug administration.
- 27. Directions for drug use.
- 28. Nutritional value of different foods.
- 29. Balanced and unbalanced diet.
- 30. Role of balanced diet for person's health.
- 31 Give recommendations as to healthy nutrition
- 32 The structure of the human body.
- 33. The organs of the oral, thoracic and pelvic cavities.
- 34. The structure of the extremities.
- 35. The structure of the cell.
- 36. Chemical substances of the cell.
- 37. Basic types of tissues.
- 38. The structure of the organs of the human body.
- 39. The main bones of the human body.
- 40. The processes of bone formation and growth.
- 41. Types of muscles.
- 42. The functions of three types of muscles.
- 43. Composition of blood.
- 44. Functions of three types of blood cells.
- 45. Blood types in the ABO system.
- 46. Mechanism of blood transfusion and indications for blood transfusion.

TASKS FOR THE FINAL TEST

I. Choose the best answ	er among A, B, C,	, and D. (Grammar T	Test)
1. It that medical profe			
a) considers b)	consider	c) is considering	d) is considered
2. Your presentation should	d by the lecturer.		
a) to be checked b)	to check	c) check	d) be checked
3. The scientists alread	ly the new equip	ment for the dental surg	ery.
a) have tested b)	haven't tested	c) had tested	d) hadn't tested
4. I'm afraid you won't be	able to leave on Suno	day. Treatment by the	he end of the week.
a) has not completed		b) hasn't been complete	ed
a) has not completedc) won't have completed		d) won't have been con	npleted
5. My friend said that he _	at the lecture on	i biochemistry the day b	etore.
a) wasn't b)			
6. Tomorrow I will talk to	the professor da	aughter is my group mat	e.
a) whob) whose7. "You may take these books	c) that	d) these	e
7. "You may take these bo	oks to the library." "V	Which? There are s	so many on the shelf."
a) ones b) that	c) one	d) those	e
8. Medical science manage	ed smallpox.		
a) eradicate b)			
9. There will be only five of			
a) someone b)	anyone	c) no one	d) anything
10. The patient felt rathe	r well so the physic	ian administered	_ antibiotics analgesics
a) eitheror b)	bothand	c) neithernor	d) not only but also
11. One that potent dru	ags may cause serious	s side effects.	
a) is believed b)			eves
12. The doctor agreed	on this patient in a w	eek.	
a) to operate b)	be operated	c) to be operated	d) will operate
13. Up to now my brother	and his friend on	ly 10 tasks for the modu	ıle.
a) prepared b)	has prepared c) have	prepared d) prep	are
14. My friend at the m	odule test because he	e the material pr	operly.
a) failed hadn't revisedc) fail hasn't revised		b) failed didn't revis	se
15. Any pharmacy needs a	n area drugs.		
a) to be stored b)			
16. The nurseis giving			
a) which b)	whose	c) who	d) of which
17. "Let's go to the laborat	cory tomorrow at 8.00		
a) somewhere b)	then	c) there	d) everywhere
18. No cases of poliomyeli			
a) have been reported b) ha	as been reported	c) have reported	d) were reported
19. I'll have to buy a new s	stethoscope. I could fi	ind mine	_
a) everywhere b) somewh	iere c) anyw	where d) now	here
20. He knows nothing about	ut bones	_ muscles.	
a) either or b)			d) and or
21. Does your friend live _	in Switzerland?)	
a) everywhere b) 22. You should th	nowhere	c) somewhere	d) anywhere
22. You should th	ne alternatives to drug	gs.	
a) to be checked b)		c) to check	d) check
23 you that medic		. =	
a) Had taken b)			d) Do take
24. Whereshe befo	ore she started working	ng at our hospital?	15.1
a) did study b)	has studied	c) had studied	d) do study
25. My friend asked me			
a) would b)	was going	c) will	d) am going

		the best surgeon in	
		c) which is	
27. Do you have a steth	noscope? If not, y	you may take the or	n the table.
a) ones b) it		c) that	d) one
28. One that the fir	st drugstores we	ere opened in Baghdad ir	n 754.
a) supposing	b) is supposed	c) supposes of our clinic.	d) suppose
29. This method by	y the specialists of	of our clinic.	/ 11
a) is developed b) is de	eveloping	c) developed	d) has been developed
30. There are universe.	ersal donors	universal recipients.	, 1
		c) neither nor	d) and and
		fied medical treatment.	
a) to give b) to be	u quan	c) to be given d) givin	ησ
3) Sha	a surgeon two	vears ago	ing.
a) becomes	_a surgeon two	years ago.	d) had become d) isn't
22 My brother	b) became	c) has become	d) had become
33. Wry brother	II(office fast Suffay.	1) :24
a) wash t	b) nash t been	c) naan t been	a) isn t
			ion carbohydrates.
a) from	b) with	c) of	d) on
35. Yesterday while I	for	my English test, my frie	end me.
a) prepared, called		b) preparing, ca d) am preparing	alling
c) was preparing, called	d	d) am preparing	g, is calling
36. It is	_ that this drug s	shouldn't be taken before	e going to bed.
a) consider	b) considered	shouldn't be taken before c) considering d) been	considered
37. By the 1 st of June I	my e	b) will be comp d) will have be	
a) will complete		b) will be comp	oleted
c) will have completed		d) will have be	en completed
38. The doctor thought	that he	her patient once n	nore on Wednesday.
a) will examine	b) examined	c) examines	d) would examine.
39 Dr Iones	articles have	been published in our id	ournal is a very famous researcher
39. Dr Jones	articles have	been published in our jo	ournal is a very famous researcher.
39. Dr Jones	articles have	been published in our jo	ournal is a very famous researcher.
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52. Sne the ca	daver the day before yes	terday.	
a) dissects	b) has dissected	c) had dissected el gastric discomfort.	d) dissected
53. The physician said	d that the patient fee	el gastric discomfort.	
a) may	b) can	c) might have	d) might
54. I hope this weeke	and will be to re	member.	
	b) whose	c) one	d) this
55. could do	this exercise.		
		d) No o	one
56. I am sure you	your presentation by t	tomorrow night.	
a) finish	b) will finish c) will	have finished d) have	e finished
57. She hundi	reds of doctors in her life		
a) visited	b) visits	c) has visited	d) was visiting
58. Yesterday I met M	Ir McKnight, the profess	or lectures I like v	ery much.
a) which	b) that	c) whom	d) whose
59. He wanted his pro	posal	X . 1	d) to be accepting
a) to accept	b) to be accepted	c) to have accepted	d) to be accepting
60. A lecture on osteo	porosis already _	by this prominent p	rofessor.
a) will be delivered	1) 1	b) will have been delived delivered	ered
	t women shouldn't take a		1
a) considers	b) consider	c) are considered	d) are considering
62. A doctor provides	first aid to all regardless	of their ability	N1 '1
a) to pay	b) pay	c) to be paid	d) be paid
	e I returned to clinic.	-) 4: 4?4:4 -	J) J?4;4 -
		c) didn't write	a) don t write
	I all the English		ما مرموراط سمسمسام
a) nave memorised	b) nad memorised	c) memorised to university on Saturda	a) would memorise
65. He said that CSI	VIU students 1	to university on Saturda	ay and Sunday.
\ 1:1 \ 1:	1 > 1 2	` ,	1) 11 1 1
a) didn't go	b) don't go	c) won't go	d) wouldn't have gone
a) didn't go66. It was the nervous	b) don't go s system our group cl	c) won't go hose as a topic for presen	d) wouldn't have gone
a) didn't go66. It was the nervousa) whatb) wh	b) don't go s system our group cl o c) why	c) won't go hose as a topic for presen d) that	d) wouldn't have gone
a) didn't go66. It was the nervousa) whatb) wh67. May I help you wi	b) don't go s system our group cl o c) why ith this procedure? I'll	c) won't go hose as a topic for presen d) that immediately.	d) wouldn't have gone tation.
a) didn't go66. It was the nervousa) whatb) wh67. May I help you wia) do	b) don't go s system our group cl o c) why ith this procedure? I'll b) make it	c) won't go hose as a topic for presen d) that immediately. c) do it	d) wouldn't have gone tation. d) do one
a) didn't go 66. It was the nervous a) what b) wh 67. May I help you wa a) do 68. The patientb	b) don't go s system our group cl o c) why ith this procedure? I'll b) make it by the doctor before the	c) won't go hose as a topic for presen d) thatimmediately. c) do it e results of his analyses	d) wouldn't have gone station. d) do one s ready.
a) didn't go 66. It was the nervous a) what b) wh 67. May I help you wa a) do 68. The patientb a) had been examined	b) don't go s system our group cl o c) why ith this procedure? I'll b) make it by the doctor before the were b) has	c) won't go hose as a topic for presen d) that immediately. c) do it e results of his analyses been examined were	d) wouldn't have gone station. d) do one s ready.
a) didn't go 66. It was the nervous a) what b) wh 67. May I help you wh a) do 68. The patient	b) don't go s system our group cl o c) why ith this procedure? I'll b) make it by the doctor before the were b) has nad been d) exa	c) won't go hose as a topic for presen d) that immediately. c) do it e results of his analyses been examined were mined were	d) wouldn't have gone station. d) do one s ready.
a) didn't go 66. It was the nervous a) what b) wh 67. May I help you wa a) do 68. The patientb a) had been examined c) was examined h 69 is safe from	b) don't go s system our group cl o o) why ith this procedure? I'll b) make it by the doctor before the were b) has nad been d) exa the flu. You can catch it	c) won't go hose as a topic for presen d) that immediately. c) do it e results of his analyses been examined were mined were at any place.	d) wouldn't have gone station. d) do one s ready.
a) didn't go 66. It was the nervous a) what b) wh 67. May I help you wa a) do 68. The patientb a) had been examined c) was examined b 69 is safe from a) Anybody	b) don't go s system our group cl o o) why ith this procedure? I'll b) make it by the doctor before the were b) has nad been d) exa the flu. You can catch it is b) Everybody	c) won't go hose as a topic for presen d) that immediately. c) do it e results of his analyses been examined were mined were at any place. c) Somebody	d) wouldn't have gone station. d) do one s ready. d) Nobody
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a) didn't go 66. It was the nervous a) what b) wh 67. May I help you wh a) do 68. The patienth a) had been examined c) was examined h 69 is safe from a) Anybody 70. The doctor prescria a) either or	b) don't go s system our group cl o c) why ith this procedure? I'll b) make it by the doctor before the were b) has had been d) exa the flu. You can catch it b) Everybody ibed balanced diet b) both and c) noth	c) won't go hose as a topic for presen d) that immediately. c) do it e results of his analyses been examined were mined were at any place. c) Somebody some medications to the	d) wouldn't have gone station. d) do one s ready. d) Nobody he patient.
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a) didn't go 66. It was the nervous a) what b) wh 67. May I help you wa a) do 68. The patient	b) don't go s system our group cl o c) why ith this procedure? I'll b) make it by the doctor before the were b) has nad been d) exa the flu. You can catch it b) Everybody ibed balanced diet b) both and c) noth mia can be caused by che b) is believed at Kate felt unwell and he b) to be left an exam in chemistry. b) have pas first year medical student b) would have the biggest bone in the bo b) are Mr Goldsmith stude b) who e new journals in the libr	c) won't go hose as a topic for presen	d) wouldn't have gone station. d) do one s ready. d) Nobody he patient and d) believes d) be left sing d) had passed d) would learn high. d)were high. d) were high. d) which ou take?
a) didn't go 66. It was the nervous a) what b) wh 67. May I help you wa a) do 68. The patientt a) had been examined c) was examined h 69 is safe from a) Anybody 70. The doctor prescrit a) either or 71. One that anae a) was believed 72. It is such a pity tha a) to leave 73. They just a) has passed 74. By the end of the a) will have learned 75. The lecturer said ta a) am 76. Yesterday we met a) of which 77. Oh, there are some a) one	b) don't go s system our group cl o c) why ith this procedure? I'll b) make it by the doctor before the were b) has nad been d) exa the flu. You can catch it is b) Everybody ibed balanced diet b) both and c) noth mia can be caused by chr b) is believed at Kate felt unwell and ha b) to be left an exam in chemistry. b) have pas first year medical student b) would have he biggest bone in the bo b) are Mr Goldsmith student b) who	c) won't go hose as a topic for presen	d) wouldn't have gone station. d) do one s ready. d) Nobody he patient and d) believes d) be left sing d) had passed d) would learn high. d)were as. d) which ou take?

79. Can you askto help	me?			
a) someone 80. We don't needplas	b) somebody	c) anybody		d) nobody
80. We don't needplas	sma blood for to	ransfusion.		
a) either or	b) both and	c) neither nor	d) not o	only but also
81. It that the most pop				
a) knowing	b) knows	c) is known		d) was known
82. People expect	advice on mine	or problems by a pharm	acist.	*
82. People expect a) to be given 83. Why he at the a	b) to give	c) be given		d) giving
83. Why he at the a	anatomy test yesterd	lay?	1/1 1	0.11
a) did fail 84. The patient the	b) has failed	(c) have failed	d) had .	tailed
84. The patient the	course of antibiotics	s by next Saturday.		1) 1111 1 1
a) will complete 85. He said the results	b) is completin	g c) completes		d) will have completed
a) has not been brought c) were not brought	to the GP yet.	1)1 1 (1 1 :	1.4	
a) has not been brought		b) had not been broug.	nt 1 1	ı
c) were not brought		d) would not b	be brough	τ
86. Mitochondria provide e	nergy cells i	need to function.	1\1-:-	1.
a) of which				en
87. Which computer did yo	u use? – I used the _	in your surgery.	1\	
a) one	b) those	c) that	a) ones	
a) one 88. My pen won't write. Ca a) someone	in I take	s pen?		4)
a) someone 89 Robert Boyle	b) everyone	c) no one		a) anyone
89. Robert Boyle	reported the	irst transfusion betwe	en anımaı	IS.
a) It is that b) I	it was that	c) it was wno	a) It is _	wno
90. Blood group 0 has	_ A B antigen	IS.		1) 1 1
a) neither nor	b) either oi	r c) both an	d	d) and also
91. My friend promised tha	t by the end of the to	erm she all the	new word	ls.
a) will learn b) y	would learn c) will	have learnt	d) woul	ld have learnt
92. We can improve muscle	e tone phys	sical exercises.		
a) done b) h	naving done	c) doing		d) do
93. Yesterday I met Dr Sim	ipsono	daughter is a medical st	udent, too).
93. Yesterday I met Dr Sim a) that b) t	ipsono	daughter is a medical st c) which	udent, too).
93. Yesterday I met Dr Sima) thatb) t94. This patient expects	psono hose blood transfusio	daughter is a medical st c) which on tomorrow.		d) whose
 93. Yesterday I met Dr Sim a) that b) t 94. This patient expects a) to give b) t 	psonc hose blood transfusion oe giving	daughter is a medical st c) which on tomorrow. c) to be given		d) whose
93. Yesterday I met Dr Sim a) that b) t 94. This patient expects a) to give b) t 95. We went home only wh	npson on the contract of the contract o	daughter is a medical st c) which on tomorrow. c) to be given	d) givin	d) whose
93. Yesterday I met Dr Sim a) that b) t 94. This patient expects a) to give b) t 95. We went home only wh	npson on the contract of the contract o	daughter is a medical st c) which on tomorrow. c) to be given	d) givin	d) whose
93. Yesterday I met Dr Sim a) that b) t 94. This patient expects a) to give b) t 95. We went home only wh a) were done b) c 96. Is there	those blood transfusion be giving then all the tests did c) had belse in the waiting a	daughter is a medical st c) which on tomorrow. c) to be given been done area?	d) givin	d) whose ng been done
93. Yesterday I met Dr Sim a) that b) t 94. This patient expects a) to give b) t 95. We went home only wh a) were done b) c 96. Is there	those blood transfusion be giving then all the tests did c) had belse in the waiting a	daughter is a medical st c) which on tomorrow. c) to be given been done area?	d) givin	d) whose
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93. Yesterday I met Dr Sim a) that b) t 94. This patient expects a) to give b) t 95. We went home only wh a) were done b) o 96. Is there a) someone b) r 97. The doctor said that the a) takes b) i	pson or chose blood transfusion ge giving then all the tests did c) had belse in the waiting and one patient hypnosis taking	daughter is a medical st c) which on tomorrow. c) to be given been done area? c) anyone stics. c) was taking	d) givin	d) whose ng been done d) everyone
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106. I was late. So when I came the lecture	<u> </u>	
a) had started b) started 107. The article by next Friday.	c) would start	d) has started
107. The article by next Friday.		
a) will be finished b) will have finished	c) will finish	d) will have been finished
108. He said that he at home the day before	ore.	
a) was b) has been	c) had been	d) would be
109. Dr Smith is the physician methods	of therapy are very p	opular.
a) which b) that	c) those	d) whose
110. It antiemetics prevent vomiting	•	
a) is that b) is which c) was	sthat d) was	who
111. anyone patient N. yet?		
a) Doesexamine b) Isexamining	c) Hadexamine	ed d) Hasexamined
112. It antihistamines are prescribed to		,
a) waswho b) wasthat	c) isthat	d) iswho
113. The right lung is bigger than the left		,
a) one b) ones c) tho	se d)	that
114. Don't worry, Mum. I everyth	ing by the exam.	
a) will have revised b) have revised c) wil	l revise d)	would have revised
115. Physicians antibiotics for more than		would have levised
a) use b) are using	c) have used	d) used
a) use b) are using 116. Vitamins and different minerals should _	in our diet	a) asea
a) supply b) to be supplied	c) to supply	d) he supplied
117. After Peter his homework, he	out	a) be supplied
		went
a) had completed, wentc) completes, went	d) will complete y	will go
118. The nurse said that Dr Brown an ope	ration at that momen	nt
a) is making b) made	c) was making	d) had made
119. antihypertensive drugs are used	high blood pre	coure
a) to treat	a) to be treated d)	sourc.
120 could answer the question corre	otly	de treated
a) to treat b) treat 120 could answer the question corre	ctly.	No one
120 could answer the question corre a) Something b) Nothing c) Eve	ctly. erything d)	No one
a) Something b) Nothing c) Eve	ctly. erything d)	No one
a) Something b) Nothing c) Eve II. A. Report the following sentences:	erything d)	No one
a) Something b) Nothing c) Even II. A. Report the following sentences: 1. The surgeon said: "This drug has certain side in the surgeon said: "This drug has certain said: "This drug has certai	erything d)	No one
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13. The patient said: "The professor examined me yesterday."	
The patient said that	
14. The doctor said: "I will confirm my diagnosis after tests."	
The doctor said that	
15. The visitor said to Jane: "I can bring you more books."	
The visitor said to Jane that	
16. The patient said: "I will be discharged from the hospital tomorrow."	_
The patient said that	
17. The doctor said: "This patient had rickets in childhood."	_
The doctor said that	
18. The nurse said to the patient: "I can give you another injection of a pain-killer."	
The nurse said to the patient that	
19. The nurse said: "You may see the dentist on Monday."	
The nurse said that	
20. The doctor said: "I've prescribed you some painkillers."	
The doctor said that .	
21. The patient said: "I don't normally have headaches."	
The patient said that .	
22. The nurse said: "The doctor will see you next Tuesday."	
The nurse said that	
23. The doctor said: "The consultant examined your mother yesterday."	
The doctor said that .	
24. Jack said: "My friend never goes to hospital."	
Jack said that .	
25. My friend said: "I've found something interesting on the Internet."	
My friend said that	
26. The doctor said: "I am looking for my stethoscope."	
The doctor said that .	
27. The nurse said to the patient: "Today you can eat only porridges."	
The nurse said to the patient that	
28. The professor said: "Robert Hook discovered a cell in 1665."	
The professor said that	
29. The doctor said: "This drug is not safe for pregnant women."	
The doctor said that .	
30 . The patient said: "I may go home tomorrow."	
The patient said that	
31. The professor said: "Students cannot write out prescriptions to patients."	
The professor said that	
32. The doctor said: "I am waiting for you next Wednesday."	
The doctor said that .	
33. The patient said: "Two years ago I had appendicitis."	
The patient said that	
34. The professor said: "Vitamin C was isolated in 1932."	
The professor said that	
35. The nurse said to me: "I am going to take your blood pressure."	
The nurse said to me that	
36 . The patient said: "The doctor will confirm his diagnosis after investigations."	
The patient said that	
B. Transform the following sentences from active into passive voice.	
1. Someone has already described the digestive system to the students.	
2. The doctor will x-ray the patient's leg.	—·
3. Someone had brought the stethoscope before we left. (<i>Make changes in the</i> 1^{st} <i>part only</i>)	·
4. Students observed organelles under the microscope.	<u> </u>

5. Someone has already described all blood types.				
6. I hope she will have returned the book by next month.				
7. The neck connects the trunk with the head.				
8. Someone has already checked all the students' works.				
9. The epithelial tissue lines the internal organs.				
10. Students will have described all the pictures by tomorrow.				
11. The shoulder girdle connects the trunk with the upper limbs.				
12. They have already discussed nutrition for patients with obesity.				
13. Someone has just x-rayed the spinal column.				
14. Immovable joints unite skull bones.				
15. Someone has already explained the hospital rules to a new patient.				
16. The doctor will discharge him tomorrow.				
17. Something has weakened the bones in this child.				
18. They will examine twenty patients on Thursday.				
19. Dr Smith has just given me a referral to a cardiologist.				
20. Someone will do the task next month.				
21. The professor will not deliver a lecture on anatomy next Friday.				
22. They have already operated on three patients today.				
23. Dr Lind published the Treatise on the Scurvy in 1753.				
24. Someone will have checked all the students' works by Sunday.				
·				

III. Provide the synonyms to the following words.

a painkiller	an operation	platelets
femur	slow twitch fibres	a skull
a chemist's (shop)	a skull	a vertebral column
to finish	an oral cavity	a jaw bone
erythrocytes	a sternum spine	white blood cells
to give blood	passage	blood clotting
extremity	adverse reaction	a brand name
toxic	respiration	a druggist
somebody	leukocytes	blood clotting
drug	pharmacist	an undesirable effect
limbs	nourishing substance	erythrocytes
to link		

IV. Provide the antonyms to the following words:

recipient	atrophy	fast twitch fibres
dangerous	a contraindication	voluntary
compatible	dangerous	liquid
the generic name	rough endoplasmic reticulum	indicated
striated	unicellular	slow twitch fibres
involuntary	saturated	contract
junk food	to decrease	atrophy
solid	elastic	a trade name
balanced		

V. Give the definition to the following terms:

V. Give the definition to the following terms:				
mitosis	a lymph node	a neck		
phagocytes	rickets	type a blood		
obesity	hypertrophy	an organ system		
an organ	smooth muscles	an antigen		
antihistamines	complete blood count	antiemetics		
lymph	a dispensary	a nose		
haemoglobin	platelets	type o blood		
osteoporosis	antihypertensive drugs	anticoagulants		
histopathology	mitochondria	a waiting area		
a cell	dosage	type b blood		
cytoplasm	carbohydrates	a prescription area		
phagocytosis	overdose	antineoplastics		
a cranium	nerve tissue	muscle tone		
atrophy	type ab blood	ossification		
plasma	fats	sedatives		
a skeleton	a private counselling area	a pharmacy		
a vertebra	epithelial tissue	a trunk		
a cell	haemostasis	avitaminosis		
a tissue	diuretics	a nucleus		
vitamins	proteins			

Последнее задание будет выглядеть следующим образом:

V. Fill in the gaps with the words or word combinations which suit best. There are two extra words which you do not need to use. Then write three questions to the text.

Text 1

lympn, liquid, nervous, support, nealthy, cells, coverings, contraction, protection	
Tissues are materials made up of groups of similar There are four main	- 1
body. Epithelial one forms like the skin, lining membranes and gl	ands. Connective tissue helps
to and bind parts together, holding them in place. There are sever	
including bone, cartilage, ligaments, fatty and elastic tissue, also blood and	(the fluid tissues).
Muscular tissue has the power of, which causes movement	one conducts nerve
impulses. Tissues are jointed into larger units called organs, such as the heart, lungs, bra	ain, liver. A system is a group
of organs, which together carry out one of the essential functions of the body. There a	re nine systems in the human
organism. All of these systems work harmoniously together in a body.	
1	?
2	?
3.	?

Так как все тексты будут основаны на материалах учебника, мы не включаем их в тренировочные материалы. Изучайте образец и просматривайте все тексты.

VOCABULARY

adj = adjective /`æфіктіу/ имя прилагательное adv = adverb /`ædv3:b/ наречие conj = conjunctive /kən`фалуктіу/ союз, союзное слово irreg = irregular /ı`regjulə/ неправильный (о глаголах)
pl = plural /`pluərəl/ множественное число

pl = plural / `pluərəl/ множественное число prep = preposition /,prepə`zı∫ən/ предлог pron = pronoun / `prəunaun/ местоимение pp = past participle /pa:st `pa:tɪsɪpl/ причастие прошедшего времени

n = noun /naun/ имя существительное **v = verb** /v3:b/ глагол

Δ

abdomen /`æbdəmən/ *n* брюшная полость, живот

abdominal /æb`dɑmɪnəl/ *adj* абдоминальный, брюшной

abnormality /,æbnɔ:`mælətɪ/ *n* отклонение, аномалия

absorb /əb`zɔ:b/ v поглощать, абсорбировать **accept** /ək`sept/ v принимать, соглашаться **access** /`æksəs/ n доступ; v получить доступ **accessible** /ək`sesəbl/ *adj* доступный, достижимый

accident /`æksɪdənt/ n несчастный случай accompany /ə`kʌmpənɪ/ v сопровождать accord /ə`kɔ:d/: of one's own accord само по себе, без чьего-либо участия

according to /ə`kɔ:dɪŋ tə/ в соответствии с account /ə`kaunt/ for являться причиной, объяснять

accumulate /ə`kju:mjuleɪt/ v накапливать, скапливаться

ache /eɪk/ *n* боль

achieve /ə`tʃi:v/ v достигать

achievement /ə`tʃi:vmənt/ n достижение

acne /`æknɪ/ n акне, угри

actin / aktin / n актин (белок мышечных волокон)

activity /æk`tɪvɪtɪ/ *n* активность, деятельность **acute** /ə`kju:t/ *adj* острый *(о боли)* **add** /æd/ *v* прибавлять, присоединять

additional /ə`dɪʃənəl/ *adj* добавочный,

дополнительный

adequacy / ædɪkwəsɪ/ *n* соответствие, адекватность

adequate / ædəkwət/ adj соответствующий,

адекватный admit /əd`mɪt/ v принимать, допускать

adult /`ædəlt, ə`dʌlt/ *n* взрослый человек; *adj* взрослый

advance /əd`v α :ns/ n достижение, успех; ν делать успехи, развиваться; **in advance** заранее

advanced /əd`va:nst/ adj современный, «продвинутый»

advantage /əd`vɑ:ntɪdʒ/ n преимущество adverse /`ædvə:s/ adj неблагоприятный, побочный

advice /əd`vais/ n совет

advise /əd`vaɪz/ v советовать

aerosol /`eərəusal/ n аэрозоль

affect /ə`fekt/ v оказывать (вредное)

воздействие

affected /ə`fektɪd/ adj поражённый (болезнью)

age / eids / n возраст; век

aging / eɪʤɪŋ/ n старение; adj стареющий

aid /eid/ v оказывать помощь

aim /eɪm/ *n* цель; *v* ставить целью

airways /`eəweiz/ n pl. дыхательные пути

albumin /`ælbjumɪn/ n альбумин, белок

alike /ə`laɪk/ adj подобный, похожий

alimentary / æli`mentəri/ adj

пищеварительный

allergic /ə`lə:фік/ adj аллергический

almost /`ɔ:lməust/ adv почти

alter /`o:ltə/ v изменять

alternative /pl`tɜ:nətɪv/ *n* альтернатива, выбор **although** /ɔ:l`ðəu/ *conj* хотя; несмотря на то что

among /ə`mʌŋ/ prep среди

amount /ə`maunt/ n количество, сумма

anaemia /ə`ni:mɪə/ n анемия

anaemic /ə`ni:mɪk/ adj анемичный

anaesthetic / ænəs` θetik/ n обезболивающее

средство; adj обезболивающий

analgesic / ænəl `dʒi:zɪk/ n болеутоляющее

средство; *adj* болеутоляющий

ankle /`æŋkl/ n лодыжка

anorexia /ænə`reksiə/ n анорексия,

отвращение к пище

antibody /`æntɪˌbadɪ/ *n* антитело

anticoagulant / æntikəu`ægjulənt/ n

антикоагулянт, противосвертывающее средство

antiemetic / ænti i`metik/ n противорвотное средство; adj противорвотный

antihistamine / ænti`histəmin/ n

антигистаминное средство; adj

антигистаминный

antihypertensive /ˌæntɪˌhaɪpə`tensiv/ n гипотензивное средство; adj гипотензивный, снижающий кровяное давление anti-infective /ˌæntɪ ɪn`feltɪv/ n

антибактериальное средство

anti-infective / ænti in feltiv/ n антибактериальное средство; adj антибактериальный anti-inflammatory / ænti in`flæmətri/ n противовоспалительное средство; adj противовоспалительный antineoplastic / æntɪˌni:əu`plæstɪk/ n противоопухолевое средство; adj противоопухолевый anxiolytic /`æŋksaɪəlɪtɪk/ n седативное средство; adj седативный, противотревожный aplastic anaemia /ə`plæstık ə`ni:mɪə/ апластическая анемия appearance n внешний вид appendix /ə`pendiks/ n аппендикс; приложение appliance /ə`plaɪəns/ n аппарат, прибор applicant / aplakant/n кандидат, претендент apply /ə`plaɪ/ v применять approach /ə`prəutʃ/ n подход appropriate /ə`prəuprıət/ adj подходящий, соответствующий approximately /ə`proksımətli/ adv приблизительно, почти **arm** /a:m/n рука (предплечье + плечо) armpit /`a:mpit/ n подмышечная ямка artery /`a:tərɪ/ n артерия arthritis /α:`θraɪtɪs/ n артрит assess /ə`ses/ v оценивать assure/ə`ʃuə/ v уверять, убеждать assured /ə`fuəd/ adj уверенный atrophy /`ætrəfı/ n атрофия, истощение atrophy n /`ætrəfi/ attach /ə`tætʃ/ v прикреплять, присоединять(ся) average /`ævərɪʤ/ adj средний, среднестатистический avitaminosis / ævɪ temɪ`nəusɪs/ n авитаминоз avoid /bicv´e\ biova **award** /ə`wɔ:d/ v присуждать (награду) aware /ə`weз/ adj осведомлённый; be aware of sth знать, осознавать

В

bacterium (pl. bacteria) /bæk`tıərıəm (bæk`tıərıə)/ n бактерия balanced diet /`bælənst daɪət/ сбалансированное питание ban /bæn/ v запрещать bandage /`bændɪʤ/ n бинт, повязка; v перевязывать, бинтовать barrier /`bærıə/ n барьер, преграда bean /bi:n/ n боб, фасоль

axillary /æk`sılərı/ adj подмышечный

bachelor /`bætʃələ/ n бакалавр

behave /bi`heiv/ v вести себя **behaviour** /bi`heiviə/ *n* поведение **belief** /bi`li:f/ *n* убеждение believe /bi`li:v/ v верить below /bi`ləu/ adv внизу; prep ниже beneficial / beni fi [əl/ adj полезный, целебный **benefit** /`benəfit/ *n* польза beriberi /`beri`beri/ n бери-бери, дефицит тиамина billion /`bɪljən/ num миллиард bioassay /baɪə`æseɪ/ n биотест, биологический анализ biopsy /`baɪəpsɪ/ *n* биопсия biotin /`baɪətɪn/ n биотин, один из витаминов В комплекса bladder /`blædə/ n (мочевой) пузырь, тж. urinary bladder /`juərinəri `blædə/ **bleeding** /`bli:dɪŋ/ *n* кровотечение blood /blad/ n кровь blood flow /blad flau/ кровоток blood loss /blad las/ кровопотеря blood test /blad test/ анализ крови blood testing /blad `testin/ исследование (анализ) крови bloodstream /`bladstri:m/ n кровоток blueprint /`blu:print/ n синька **bolus** /`bəuləs/ *n* болюс: пишевой комок bone /beun/ n кость bone marrow /bəun `mærəu/ n костный мозг borrow /`borau/ v занимать, заимствовать bowel /bauəl/ n, usually pl. кишечник brain /breɪn/ n мозг **bran** /bræn/ *n* отруби branch /bra:ntf/ n ветвь, отрасль; v разветвляться brand name /brænd neim/ фирменное название товара break /breik/ v irreg ломать, разбивать; break **up** распадаться: **break down** расщеплять(ся) breast /brest/ n грудь, молочная железа breastbone /`brestbaun/ = sternum /`sta:nam/ n грудина breathe /bri:ð/ v дышать **breathing** /bri:ðɪn/ *n* дыхание bring /brɪn/ v irreg приносить; bring about вызывать, осуществлять; bring up (food) вырвать (пищу) **brittle** /`brɪtl/ *adj* хрупкий, ломкий

brittle /`brɪtl/ *adj* хрупкий, ломкий **broad** /brɔ:d/ *adj* широкий, просторный

bug /bʌg/ *n* жучок

bulimia /bu`lɪmɪə/ *n* булимия **bundle** /`bʌndl/ *n* пучок

burn /bə:n/ *n* ожог

C

calciferol /kæl`sɪfərəl/ *n* кальциферол, витамин D

calcium /`kælsɪəm/ n кальций calf /kɑ:f/ n pl. calves икра (ноги)

calm /kɑ:m/ adj спокойный; v успокаивать

cancer /`kænsə/ n рак (заболевание)

capillary /kə`pɪlərɪ/ n капилляр

capitalise /`kæpɪtəlaɪz/ v писать с большой буквы

capsule /`kæpsju:l/ n капсула

carbohydrate / ka:bəu`haidreit/ *n* углевод **carbon dioxide** / ka:bən dai`aksaid/

углекислота, углекислый газ

cardiac arrest /`ka:dɪək ə`rest/ остановка

сердечной деятельности

cardiac muscle /`ka:dıək mʌsl/ сердечная

мышца

care /keə/ *n* забота; *v* заботиться

carefully /keəfəl/ adv осторожно

carry /`kærɪ/ v нести, переносить

cartilage /`ka:tɪlɪʤ/ n хрящ

cause lkɔ:z/ n причина; v вызывать, быть причиной

caution /`kэ:∫ən/ n осторожность;

предостережение

cavity /`kævɪtɪ/ n полость

CBC (complete blood count) /kəm`pli:t blad

kaunt/ ОАК (общий анализ крови) cell /sel/ n клетка (организма)

cell membrane /sel `membrein/ клеточная

оболочка или мембрана

cereals /`sɪərɪəlz/ *n pl.* злаки, блюдо из злаков (хлопьев)

certain /`sə:tən/ adj определенный

cervical /`sə:vɪkl/ adj шейный

challenge /`tſælɪnʤ/ v бросать вызов,

побуждать к действиям

challenging / tʃælɪnʤɪŋ/ adj побуждающий к действиям, требующий напряжения сил

charity /`tfærɪtɪ/ *n* благотворительность;

благотворительная организация

chart /tfa:t/n таблица, график

obsols /fC-1-/ ... - room and

check /tʃek/ v проверять

chemist / kemist/ n химик; BE аптекарь

chemist's (shop) BE /`kemists (ſар)/ аптека

chemotherapy / ki:məu`θerəpɪ/ n

химиотерапия, лечения болезни химическими препаратами

chest /tfest/ n грудная клетка

chew /tʃiu:/ v жевать

chill /tʃɪl/ n озноб

chin /tʃɪn/ *n* подбородок

chromosome /`krəuməsəum/ *n* хромосома

chronic /`kronik/ adj хронический

church /tʃз:tʃ/ n церковь

chyle /kaɪl/ *n* млечный сок, хилус

cilia /`sɪlɪə/ n pl. реснички

circuit /`sə:kɪt/ *n* окружность; кругооборот **circulation** / sə:kju`leɪ[ən/ *n* кровообращение

circulatory /ˌsə:kju`leɪtərɪ/ adj кровеносный,

циркуляторный

circumstance /`sa:kəmstæns/ n

обстоятельство

civil /`sɪvɪl/ adj гражданский

clavicle /`klævɪkl/ n ключица

clinical trial /`klınıkəl traıəl/ клиническое

испытание

clot /klat/ n сгусток; v свертываться

clotting factor /`klatıŋ `fæktə/ фактор

свертывания крови

clump /klamp/ v образовывать группу

cluster /`klastə/ n скопление

coagulation /kəu`ægjuleɪʃən/ n коагуляция,

свертывание крови

coat rack /kəut ræk/ вешалка

соссух /`kaksıks/ n копчик, хвостец

cold /kəuld/ *n* простуда, *mж.* common cold

collagen /`kalədʒən/ n коллаген

collarbone /`kaləbəun/ n ключица

combat /`kambət/ v бороться

combine /kəm`baɪn/ v сочетать, соединять

common /`kɒmən/ adj распространенный

commonly /`kamənlı/ adv обычно, в

большинстве случаев

community pharmacy /kə`mju:nɪtɪ `fɑ:məsɪ/

розничная аптека

compare /kəm`peə/ v сравнивать

compatible /kəm`pætɪbl/ adj совместимый

complain /kəm`pleɪn/ v жаловаться (**of** – на)

complaint /kəm pleint/ n жалоба

complete /kəm`pli:t/ v завершать; adj полный

complex /`kəmpləks/ adj сложный

compose /kəm`pəuz/ v формировать,

составлять

compound /kəm`paund/ n смесь, соединение;

adj сложный, составной; v смешивать

conception /kən`sep∫ən/ n зачатие

concern /kən`sз:n/ v касаться, иметь

отношение

conclusion /kən`klu:ʒən/ n вывод, заключение

condition /kən`dıʃən/ n условие; состояние

conduct /kən`dʌkt/ v проводить

confined /kən`faɪnd/ to bed прикованный к

confirm /kən`fз:m/ v подтверждать

connective /kə`nektɪv/ adj соединительный

conscious /`kan∫əs/ adj сознательный

consequence /`kənsikwəns/ n последствие conspicuous /kən`spikjuəs/ adj видимый,

заметный

consume /kən`sju:m/ v потреблять consumption /kən`samp (ən/ n потребление contain /kən`teɪn/ v содержать continue /kən`tınju:/ v продолжать continuing /kən`tınju:ɪŋ/ adj непрерывный **contraction** /kən`træk [ən/ n сокращение (мыши) contra-indication / kantraindi kei [an/ n

противопоказание

control /kən`trəul/ v контролировать, купировать

controversy /kən`travəsı/ n разногласие

conventional /kən`ven[ənəl/ adj

традиционный, обычный

cookies /`kukız/ n pl. печенье **cork** /kɔ:k/ *n* пробка (вещество)

corporeal /kɔ:`pɔ:rɪəl/ adj корпоральный,

относящийся к телу

cosmetics /kaz`metiks/ n pl. косметические средства

cough /kpf/ n кашель

counselling area /`kaunsəliŋ `eəriə/ место для консультаций (в аптеке)

counter /`kauntə/ n прилавок

counteract /kauntə\rækt/ v

противодействовать, нейтрализовать

cranial /`kreiniəl/ adj черепной

cranium / kreiniəm/ = skull /skal/ n череп

create /kri`eit/ v создавать

creature / kri:tʃə/ n создание, существо

crew /kru:/ *n* экипаж *(судна)*

crowd /kraud/ n толпа; v скапливаться,

толпиться

crucial /`kru:fəl/ adj ключевой, решающий

curable /`kjuərəbl/ adj излечимый

cure /kjuə/ v излечить

current /`kʌrənt/ adj текущий

cut / $k_{\Lambda}t$ / n порез; v irreg. резать, порезать(ся)

cutaneous /kju`teɪnɪəs/ adi кожный

cytoplasm /`saitəuplæzm/ n цитоплазма

dairy /`deərɪ/ adi молочный

damage / dæmids / n повреждение; vповреждать

dangerous /`deɪndʒərəs/ adj опасный

data /`deɪtə/ n pl данные

deal /di:l/ with иметь дело с

debatable /di`beitəbl/ adj спорный

decade /`dekeid/ n десятилетие

decisión-making /dɪ`sɪʒən `meɪkɪŋ/ n принятие

решений

defect /di`fekt/ n порок

defence /dr`fens/ n защита

defend /di`fend/ v защищать

deficiency /di`fifənsi/ n недостаточность,

definition / defi`ni(ən/ n определение

delicate /`delikət/ adj тонкий, чувствительный

deliver /di`livə/ v доставлять

dementia /dɪ`men [ə/ n слабоумие

dense /dens/ adj плотный, густой

depend /di`pend/ v зависеть (on – om)

depending on /di pendin эп/ в зависимости от

deposit /dɪ`pɑzɪt/ n отложение, осадок; v

откладываться

derive /di`raiv/ from происходить от

describe /di`skraib/ v описывать

destroy /dis`troi/ v разрушать

destruction /di`str∧k∫ən/ *n* разрушение,

уничтожение

detect /di`tekt/ v обнаруживать, выявлять

determine /di`tз:min/ v определять

develop /di velap/ v развиваться

development /di`velapmant/ n развитие

device /di`vais/ n прибор

diagnose /`darəgnəuz/ v диагностировать

diagnosis /daɪəg`nəusɪs/ n диагноз

dietary /`daɪətrɪ/ adj диетический, пищевой

differ /`dɪfə/ v различаться

differential diagnosis / difə`ren[əl

darəg nəusis/ дифференциальная

диагностика

digest /dar`dsest/ v переваривать (пищу)

digestive /dar`dʒestɪv/ adj пищеварительный

dilute /dai`lu:t/ v разбавлять, разводить direct /dɪ`rekt/ adj прямой; v направлять

directions /di`rek [ənz/ n pl. указания.

инструкция

dirt /də:t/ n грязь

disadvantage /,disəd`va:ntidʒ/ n недостаток,

неудобство

discharge /dis`tfa:dʒ/ v выписывать (из

больницы)

discover /dis`knvə/ v открывать,

обнаруживать

disease /di`zi:z/ n болезнь

dislocation /dɪsləu`keɪʃən/ n вывих

disorder /di`sɔ:də/ n расстройство, нарушение

dispensary /dis`pensəri/ n помещение для

приготовления и хранения лекарственных

средств

dispense /dis`pens/ v готовить и

распространять (лекарства)

disseminated /di`semineitid/ adi

диссеминированный, распространенный

dissolve /di`zalv/ v растворять

distribute /dis`tribju:t/ v распределять

distribution /dɪstrɪ`bju:ʃən/ n распространение

diuretic /darjuə retrk/ n мочегонное средство;

adi мочегонный

diversity /dar`vз:siti/ n разнообразие

divide /di`vaid/ v разделять divorce /də`vɔ:s/ n развод dizzy /`dızı/ adj испытывающий головокружение donation /dəu`neɪ[ən/ n отдача крови donor /`dəunə/ n донор dosage /`dəusıʤ/ n доза; дозировка dosage form /`dəusidʒ fɔ:m/ лекарственная doubt /daut/ n сомнение; v сомневаться drain /drein/ v оттекать, отводить воду drawer /`drɔ:ə/ n ящик (выдвижной) dressing /`dresin/ n повязка drinking water / drinkin wo:tə/ питьевая вода **drop** /drop/ *n* капля drug /drʌq/ n лекарство drug cabinet /drag `kæbınət/ шкаф для хранения лекарств druggist AE /`drʌqɪst/ n аптекарь drugstore AE /`drʌqstɔ:/ n аптека **duct** $/d\Lambda kt/n$ канал, проток due to /dju: tə/ из-за dust /dast/ n пыль dysfunction /dis`fank (ən/ n дисфункция dystrophy /`distrəfi/ n дистрофия

Ε

ear /19/ n yxo easy-going /`i:zɪˌgəuɪŋ/ adj добродушный, веселый **ectoderm** / ektə də:m/ n эктодерма efficacy /`efikəsi/ n эффективность, действенность elbow /`elbəu/ n локоть elevate /`eliveit/ v поднимать eliminate /i`limineit/ v устранять elixir /ı`lıksıə/ n эликсир embryo /`embriəu/ n эмбрион emergency /ı`mз:фэлsі/ n непредвиденный **empty** / empti/ n пустой; v опустошать emulsion /ı`mʌlʃən/ n эмульсия enable /i`neibl/ v делать возможным enclose /ɪn`kləuz/ v окружать, заключать encourage /in`kʌrɪʤ/ v воодушевлять endocrine /`endəukraın/ adj эндокринный endoderm /`endə,də:m/ n эндодерма endurance n /m djuərəns/ engulf /ɪn`gʌlf/ v поглощать, заглатывать enjoy /ın`dʒɔɪ/ v наслаждаться enough /ı`nлf/ adv достаточно ensure /ɪn` [uə/ v обеспечивать entire /in`taiə/ adj целый, весь entirely /ın`taɪə/ adv целиком, полностью environment

enzyme /`enzaim/ n фермент, энзим epithelial / epi`θi:liəl/ adj эпителиальный equip /ı`kwip/ v оборудовать equipment /ı`kwipmənt/ n оборудование eradicate /i`rædikeit/ v искоренять erythrocyte /i`riθrəusait/ = red blood cell (RBC) эритроцит, красная клетка крови erythrocyte sedimentation rate /ι`rιθrəusait sediman`teifan reit/ (ESR) скорость оседания эритроцитов essential /ı`sen [əl/ adj основной establish /i`stæbli // v организовывать, устанавливать eventually /i`ventfuəli/ adv в конечном счете, в examine /ıg,zæmın/ v обследовать example /ɪq`za:mpl/ n пример excess /rk`ses/ n избыток, превышение excessive /ik`sesiv/ adi чрезмерный, излишний excision /ek`sɪʒən/ n иссечение, удаление exclude /ik`sklu:d/ v исключать excrete /ɪk`skri:t/ v выделять excretory /ık`skri:tərɪ/ adj выделительный exist /rg`zrst/ v существовать expand /iks`pænd/ v расширяться, растягиваться expect /iks`pekt/ v ожидать, рассчитывать expectancy /iks`pektənsi/n: life expectancy ожидаемая продолжительность жизни experience /ik`spiəriəns/ n (жизненный) опыт; *v* испытывать expiry date /ik`sparərı deit/ срок годности explain /iks`plein/ v объяснять explain /iks`plein/ v объяснять **expose** /ɪk`spəuz/ v подвергать (воздействию) external /ɪk`stɜ:nəl / adi наружный, внешний extinct /ɪks`tɪŋk/ adj вымерший, исчезнувший extra / ekstrə/ adj дополнительный extremity /ik`stremiti/ n конечность **eve** /aɪ/ *n* глаз **eyeball** /`aɪbɔ:l/ *n* глазное яблоко eyebrow /`aibrau/ n бровь eyelash /`aɪlæʃ/ n ресница

F

facilitate /fə`sɪlɪteɪt/ v облегчать, содействовать fall /fɔ:l/ into распадаться на fancy /`fænsɪ/ adj необычный; v воображать, представлять себе fast twitch fibre /fɑ:st twɪtʃ `faɪbə/ быстросокращающееся волокно fat /fæt/ n жир fatback /`fætbek/ n сало, корейка

fatigue /fə`ti:q/ n усталость, утомление

fat-soluble / fæt,saljubl/ adj жирорастворимый

favourite /`feɪvərɪt/ adj любимый

feature /`fi:tʃə/ *n* отличительная черта

femur /`fi:mə/ *n* бедренная кость

fetus /`fi:təs/ n плод (зародыш с 9-ой недели

развития до момента рождения)

fever /`fi:və/ *n* жар, лихорадка

fibre /`faɪbə/ n волокно

fibrous / faɪbrəs/ adj фиброзный, волокнистый

fibula /`fi:bjulə/ n малоберцовая кость

fight /fait/ v irreg бороться

figure / figal n цифра; pl цифровые данные

filament /`filəmənt/ n филамент, нить

findings /`faɪndɪŋz/ n pl данные, результаты

finger /`fingə/ n палец руки (кроме большого)

fingernail /`fingəneil/ n ноготь

firm /fə:m/ adj крепкий, прочный

first aid /f3:st eid/ первая помощь

fleshy /`fle [ɪ/ adj состоящий из мякоти

flexibility /fleksi`biliti/ n гибкость

flexible /`fleksibl/ adj гибкий

flexing /`fleksɪŋ/ n сгибание

flow /flau/ v irreg. течь

flu /flu:/ *n* грипп

fluid /flu:Id/ n жидкость

fluoride /`fluəraɪd/ n фтористое соединение

food intake /fu:d `inteik/ прием пищи

fool /ful/v обманывать

foot /fut/ (pl. feet /fi:t/) n стопа

force /fɔ:s/ n сила

forearm /`fɔ:ra:m/ *n* предплечье

forehead /`forɪd/, /`fɔ:hed/ n лоб

foreign / form/ adj иностранный; инородный

formulary /`fɔ:mjulərɪ/ n фармацевтический

справочник

fracture /`fræktʃə/ *n* перелом

framework /`freimwə:k/ n каркас, строение

frequency /`fri:kwənsı/ *n* частота

frequently /`fri:kwəntlı/ adv часто

friction /`frik∫ən/ n трение

frustrated / fra streitid/ adj разочарованный

fungal /`fʌngəl/ adi грибковый

fuse /fju:z/ v объединяться, сплавляться

future /`fi:utʃə/ adj будущий

G

gain /geɪn/ v получать, приобретать

gall bladder /`gɔ:lblædə/ n желчный пузырь

gastrointestinal / gæstrəuin`testinəl/ adj

желудочно-кишечный

general / ˈdʒenərəl/ adj общий

General Medical Council / dgenərəl medikəl kaunsəl/ Генеральный медицинский совет (в

Великобритании)

generate /`dgenəreit/ v генерировать,

создавать

generic name /dʒə`nerɪk neɪm/ обобщенное

название

genetic /dʒə`netɪk/ adj генетический

germ /dzə:m/ n зародыш; микроб,

микроорганизм

girdle /gə:dl/ n пояс

give injection /ɪn`dʒek [ən/ делать укол

gland /glænd/ n железа

glandular / glændjulə/ adj железистый,

гландулярный

glial /glænd/ adj глиальный, нейроглический

glucose / glu:kəus/ *n* глюкоза

glue /glu:/ *n* клей

goal /gəul/ n цель

Golgi apparatus / galdzi: ,əpə reitəs/ аппарат

Гольджи

grains /greinz/ n pl. злаки

groceries /`grausrız/ n pl. продовольственные

товары; бакалея

groin /groɪn/ n пах

grow /grau/ v irreg. расти

growth /grəuθ/ n poct; опухоль

quidelines /`qaɪdlaɪnz/ n pl. нормативы

gum /gʌm/ *n* десна

quy /qaɪ/ *n* парень; *pl.* ребята (при

обращении)

Н

haemoglobin /ˌhi:mə`gləubɪn/ n гемоглобин

haemostasis / hi:mə`steisis/ n гемостаз

half /ha:f/ *n* половина

hamstring *n* подколенное сухожилие

happen / hæpən/ v случаться, происходить **harm** /ha:m/ n вред; v вредить, причинять

рел

harmful /`ha:mfəl/ adj вредный

heal /hi:l/ v вылечивать, исцелять

health /hel θ / n здоровье

healthcare / hel θ keə/ n здравоохранение

healthy /`helθɪ/ *adj* здоровый

heart /ha:t/ n сердце

heartbeat /`ha:tbi:t/ n сердечное сокращение

heartburn /`hɑ:tbə:n/ *n* изжога

heel /hi:1/ *n* пятка

hip /hɪp/ *n* бедро

histology /hɪs`taləʤɪ/ *n* гистология

histopathology / histəpə `θαlədʒi/ n

патологическая гистология

HIV/AIDS /,eittf ai `vi:/eidz/ ВИЧ/СПИД

honeycomb /`hʌnɪkəum/ adj ячеистый,

сотовидный

hope /həup/ *n* надежда; *v* надеяться

hospital /`hospital/ n больница

hot water bottle /hat `wɔ:tə `batl/ грелка

however /hau`evə/ conj однако
humerus [`hju:mərəs] n плечевая кость
hurt /hɜ:t/v irreg причинять боль, болеть
hydrogen /`haɪdrədʒən/ n водород
hygiene /`haɪdʒi:n/ n гигиена
hypersensitivity /,haɪpə,sensı`tıvıtı/ n
повышенная чувствительность
hypertrophy /haɪ`pə:trəfɪ/ n гипертрофия,
увеличение органа или его части
hypervitaminosis /,haɪpəvɪ,temɪ`nəusɪs/ n
аипервитаминоз
hypnotic /hɪp`nɑtɪk/ adj снотворный,
гипнотический

I identify /ai dentifai/ v устанавливать. определять illness /`ɪlnəs/ n болезнь immediate /ı`mi:dɪət/ adj немедленный impairment /im`peamant/ n повреждение impression /m`prefən/ n впечатление improve /ɪm`pru:v/ v улучшать impulse /`impals/ n импульс inch /ɪntʃ/ *n* дюйм (2.54 см) incision /in`sɪʒən/ n надрез, разрез include /ɪn`klu:d/ v включать в себя incompatible adj / inkəm`pætibl/ increase /ɪn`kri:s/ v увеличивать incurable /ɪn`kjuərəbl/ adj неизлечимый indicate /`indikeit/ v показывать, указывать indication / indi`kei [ən/ n показание indigestion / indi destfan/ n диспепсия, нарушение пищеварения induce /ɪn`dju:s/ v вызывать, стимулировать infant /`infənt/ n младенец inflammation /ɪnflə`meɪ[ən/ n воспаление **influence** /`influens/ *n* влияние; *v* оказывать влияние, влиять ingest /in`dgest/ v глотать, принимать внутрь ingestion /ɪn`dʒestʃən/ n проглатывание, прием внутрь inherit /ɪn`herɪt/ v наследовать initial /ı`nı∫əl/ adj первоначальный injectable /ɪn`dʒektəbl/ adj впрыскиваемый, для инъекций **injure** / ind_{3} / поражать, травмировать injured /`ɪnʤəd/ adj травмированный

injury /`ınʤərı/ *n* травма, ранение

inoculation /ɪˌnɔkju`leɪʃən/ n прививка

inotropic / siqcrt ensity adj инотропный,

insert /in`sə:t/ v вставлять, вводить

insomnia /ın`səmnıə/ n бессоница

изменяющий силу мышечного сокращения

inner /`ɪnə/ adj внутренний

instance /`instans/ n пример instead /in`sted/ adv вместо этого instil /ɪn`stɪl/ v вливать (какую-либо жидкость) по капле **insulate** /`ɪnsjəleɪt/ v изолировать **integrity** /in`tegriti/ *n* целостность intelligence /ɪn`telidʒəns/ n интеллект, разум intensive care unit (ICU) /ɪn`tensiv kзə `ju:nɪt/ отделение интенсивной терапии interaction / intə`rek [ən/ n взаимодействие intermediary / i:ntə`mi:dɪərɪ/ adj промежуточный internal /ɪn`tɜ:nəl/ adj внутренний intestinal tract/in`testinəl trækt/ кишечный тракт intestines /ɪn`testɪnz/ n pl. кишечник intramuscular / intrə maskjulə/ adj внутримышечный intravenous / intra vi:nas/ adj внутривенный introduce /intrə`dju:s/ v вводить, внедрять invade /in`veid/ v поражать, вторгаться invariably /ɪn`veərɪblɪ/ adv неизменно, без исключений invasive /ɪn`veɪzɪv/ adj инвазивный, нарушающий целостность involuntary /ɪn`valəntrɪ/ adj непроизвольный involve /ɪn`vɒlv/ v вовлекать, включать **iron** /aɪən/ *n* железо isolation /aɪsə`leɪ[ən/ n изоляция issue / I fu:/, / Isju:/ n предмет разговора, спорный вопрос; у вытекать, исходить item /`aɪtəm/ n пункт, вопрос

J.

jaunt /ʤɔ:nt/ n прогулка, поездка
jaw /ʤɔ:/ n челюсть
joint /ʤɔ:nt/ n сустав
junk food /ʤʌŋk fuːd/ низкокачественная
пища (богатая калориями, но не имеющая
питательной ценности)

K

kidney /`kɪdnɪ/ n почка (орган) knee /ni:/ n колено kneecap /`ni: kəp/ коленная чашечка

L

lack /læk/ v испытывать недостаток чего-л. laptop /læptɑp/ n лэптоп, ноутбук lard /lɑ:d/ n свиное сало larynx /`lærɪŋks/ n гортань laxative /`læksətɪv/ n слабительное средство; adj слабительный layer /leɪə/ n слой lead /li:d/ v irreg вести, приводить

leafy /`li:fɪ/ adj зеленый, покрытый листьями lean meat /li:n mi:t/ постное мясо learned /`lə:nɪd/ adj эрудированный, сведущий legumes /`legiu:mz/ n pl. бобовые leukaemia /lu:`ki:mɪə/ n лейкемия leukocyte /`lju:kəusaɪt/ = white blood cell (WBC) *п* лейкоцит, белая клетка крови level /`levəl/ n уровень lever /`li:və/ n рычаг life-threatening /`laɪf.θretənɪŋ/ adj опасный для жизни

ligament /`ligəmənt/ n связка limb /lim/ n конечность (человека или

животного) line /laɪn/ v выстилать lining /`laɪnɪŋ/ n выстилка

link /link/ v связывать lipid /`lipid/ n липид

liquid /`likwid/ n жидкость; adj жидкий

list /list/ n список liver /`livə/ n печень

locomotion / lauka`maufan/ n локомоция (совокупность согласованных движений, посредством которых человек перемещается в пространстве)

look up /luk αp / n смотреть (слово в словаре)

loosen /`lu:sən/ v ослаблять

loss /las/ n потеря

lower /laua/ adj нижний; v опускать lumbar /`lʌmbə/ adj поясничный lumen /`lu:mən/ n просвет, полость трубчатого органа lump / lamp / n припухлость, вздутие

lung /lʌŋ/ n легкое **lymph** /limf/ *n* лимфа

lymph node /limf naud/ лимфатический узел lymphangiitis / limfədʒi:`aɪtɪs/ n лимфангиит (воспаление лимфатических сосудов)

lymphatic system /lim`fætik `sistəm/

лимфатическая система

lymphedema / limfə`di:mə/ n лимфедема, лимфангиэктатический отек

lymphoma /lim`fauma/ n лимфома (название опухолей, исходящих из лимфоидной ткани)

lysosome / lai:sə`səum/ n лизосома

mackerel / mækrəl/ n макрель, скумбрия macrophage /`mækrəuˌfeɪʤ/ n макрофаг magnification /,mæqnɪfɪ`keɪ[ən/ n увеличение (оптическое)

mainly /`meɪnlɪ/ adv главным образом maintain /mein tein/ v поддерживать make up /meik лр/ составлять malignancy /mə`lɪgnənsı/ n злокачественность malignant /mə`lɪgnənt/ adj злокачественный malnutrition / mælnju: `trɪ[ən/ n недостаточность или нарушение питания mandible /`mændɪbl/ n нижняя челюсть mankind /mæn`kaind/ n человечество manufacture / mænju`fæktʃə/ v производить manufacturer / mænju`fæktʃərə/ n производитель

market /`ma:kit/ v реализовывать, торговать masseter /mæ`si:tə/ n жевательная мышца match /mætʃ/ v подбирать пару matrix /`meitriks/ n матрикс, основное вещество цитоплазмы

matter /`mætə/ n материя; v иметь значение maturation / mætſu`reɪʃən/ n созревание,

достижение полного развития

meal /mi:l/ n прием пищи

means /mi:nz/ n средство, способ

measurement /`meʒəmənt/ n измерение medicine /`medisən/ n медицина; лекарство medicine dropper /`medisən `drapə/ пипетка medieval / medi`i:vəl/ adj средневековый memorise /`meməraiz/ v запоминать mend /mend/ v чинить, ремонтировать mesoderm /`mezə də:m/ n мезодерма message /`mæsidy/ п послание, сообщение metacarpals /,metə`ka:pəlz/ n pl. пястные кости

metatarsals /`metə`ta:slz/ n pl. плюсневые

Middle Ages /`midl `eidʒiz/ n pl. Средние века military /`mɪlɪtərɪ/ adj военный mind /maind/ v иметь в виду **mistake** /mɪs`teɪk/ *n* ошибка mitochondrion (pl. mitochondria)

/maitə kandrıən (maitə kandrıə)/n митохондрий

mitosis /mai`təusis/ n митоз

morale /mə`rɑ:l/ n мораль; моральное состояние

mortality /mɔ`tælɪtɪ/ n смертность

mortar /`mɔ:tə/ n ступка motion *n* / məu [ən/

mouse (pl. mice) /maus (mais)/ n мышь multicellular / mʌltɪ`seljələ/ adj

многоклеточный

multiple /`maltɪpl/ adj множественный multiply /`maltɪplaɪ/ v размножаться muscle /`masl/ n мышца muscle tone /masl təun/ мышечный тонус muscular /`maskjulə/ adj мышечный Muslim /`muzlɪm/ adj мусульманский mustard plaster /`mastəd `pla:stə/ горчичный пластырь myoglobin /,maɪəu`gləubɪn/ n миоглобин, мышечный гемоглобин

Ν

nausea /`nɔ:zɪə/ n тошнота
navel /`neɪvəl/ n пуп, пупок
neck /nek/ n шея
neoplasm /`ni:əuplæzm/ n новообразование,
опухоль
nephrolithiasis /,nefrəular`θаɪəsɪs/ n
нефролитиаз, почечнокаменная болезнь
nerve /nɜ:v/ n нерв
nervous /`nɜ:vəs/ adj нервный
nervous system /`nə:vəs `sɪstəm/ нервная
система
neuron /`njuərən/ n нейрон
niacin /`naɪəsɪn/ n никотиновая киспота

neuron /`njuərən/ n нейрон
niacin /`naɪəsɪn/ n никотиновая кислота
nickname /`nɪkneɪm/ n прозвище, кличка
night blindness /naɪt `blaɪndnəs/ ночная
слепота, куриная слепота
nightmare /`naɪtmeə/ n кошмар, страшный сон

nightmare /`naɪtmeə/ n кошмар, страшный сон nitrogen /`naɪtrədʒən/ n азот nostril /`nastrɪl/ n ноздря nourishment /`nʌrɪʃmənt/ n питание, пища

nuclear /`nju:klıə/ adj ядерный nuclear envelope /`nju:klıə `envələup/

оболочка ядра *(клетки)*

nucleus (*pl.* **nuclei**) /`ni:u:klɪəs (`nju:klɪaɪ)/ *n* ядро

numerous /`njumərəs/ adj многочисленный nutrient /`nju:trɪənt/ n питательное вещество; adj питательный nutrition /nim`trɪ(ən/ n питацию пиция)

nutrition /nju: `trɪʃən/ n питание, пища

0

obesity /əu`bi:sɪtɪ/ n тучность, ожирение observe /əb`zɜ:v/ v наблюдать obstetrics /pb`stetriks/ n акушерство obstruction /əb`strʌk∫ən/ n закупорка, обструкция obtain /əb`teɪn/ v получать obvious /`abvɪəs/ adj очевидный, само собой разумеющейся occur /ə`kə:/ v случаться, происходить oesophagus /ɪ`safəgəs/ n пищевод oil /ɔɪl/ n масло (растительное или минеральное)

oncology /эл`kэlədъі/ n онкология opinion /ə`pɪnjən/ n мнение opportunity /эрэ`tju:nɪtɪ/ n возможность oral /`o:rəl/ adj ротовой; предназначенный для приема внутрь orally /`arəlı/ adv внутрь, через рот organ / э:gən/ n орган organelle /`э:gənəl/ n органелла organism /`э:gənɪzm/ n организм originate /ə`rɪdʒəneɪt/ v происходить, брать начало **ossification** / psifi`kei [ən/ n окостенение osteoporosis / astraupa`rausis/ n остеопороз outbreak /`autbreik/ n вспышка, начало outer / autə/ adj наружный, внешний overall adi overdose /`auvadaus/ n передозировка over-the-counter (OTC) drug / əuvəðə kauntə drлg/ лекарственное средство, отпускаемое

ointment /` эintment/ n мазь

F

без рецепта

package /`pækiʤ/ n пакет; упаковка **pain** /peɪn/ *n* боль painkiller / pein kilə/ n болеутоляющее palate /`pælət/ n нёбо paraesthesiae / perəs` θi:zɪə/ n парестезия (ощущение онемения, покалывания и под.) parenteral /pæ`rentərəl/ adj парентеральный (минуя пищеварительный тракт) particular /pə`tɪkjulə/ adj особенный particulate /pə`tɪkju:lət/ n частица; adj копрускулярный **passageway** /`pæsidʒwei/ *n* проход; канал past /pa:st/ adj прошлый patella /pə`telə/ n коленная чашечка раthology /pə` θ ol`dyı/ n патология patient /`peɪ[ənt/ n больной peak /pi:k/ adj высший, максимальный pellagra /pə`legrə/ n пеллагра (один из видов авитоминоза) pelvic /`pelvik/ adj тазовый pelvis / pelvis/ n tas percent /pə`sent/ n процент **percentage** /pə`setɪʤ/ *n* процентное содержание atrhuman v /m:cf 'eq' mrofreq **perfume** /`pə:fju:m/ *n* аромат, духи perhaps /pə`hæps/, /præps/ adv возможно permit /pə`mɪt/ v позволять, разрешать pernicious anaemia /pə`nɪ[əs ə`ni:mɪə/ злокачественная анемия **pestle** /pesl/ *n* пест, пестик phagocytosis / fæqə sai`təusis/ n фагоцитоз

pharmacist / fa:məsist/ n фармацевт pharmacology /,fa:mə`kələdʒı/ n фармакология pharmacy / fa:məsi/ n фармация; аптека phosphorus /`fasfərəs/ n docdop physician /fi`zi∫ən/ n врач, терапевт **pill** /pɪl/ *n* таблетка, пилюля plague /pleig/ n чума; v изводить, мучить plant /pla:nt/ n растение plasma /`plæzmə/ n плазма plaster /`pla:stə/ n гипс plug /plлg/ n закупоривающая масса, пробка pneumonia /niu:`məunıə/ n пневмония poisoning /`pɔɪzənɪŋ/ n отравление poisonous /`pɔɪzənəs/ adj ядовитый poor /puə/ adj бедный; слабый, недостаточный Pope /paup/ n папа римский population / popiu`leɪfən/ n население multiple / possibl/ adj возможный **postulate** /`pɔstjələt/ *n* аксиома, постулат; /`postjəleɪt/ v постулировать, ставить условием posture /`pastfə/ n осанка potassium /pə`tæsɪəm/ n калий potent /`pautant/ adj сильнодействующий poultry /`paultrɪ/ n мясо домашней птицы precaution /pri`kɔ: [ən/ n предосторожность preceding /pri:`si:dɪŋ/ adj предшествующий precursor /pri`kə:sə/ n предшественник pregnancy /`pregnansı/ n беременность pregnant /`pregnant/ adj беременная preparation / prepa`rei ʃən/ n препарат, лекарство prepare /pri`peə/ v готовить prescribe /pri`skraib/ v прописывать prescriber /pri`skraibə/ n человек, который имеет право выписывать рецепты **prescription** /pri`skrɪp∫ən/ *n* рецепт presence /`presəns/ n присутствие, наличие pressure /`pre [ə/ n давление prevent /pri vent/ v предотвращать prevention /pri`ven ʃən/ n профилактика primary /`praiməri/ adj первичный prior /praiə/ to до, перед тем как priority /prai`priti/ n приоритет probably /`probablı/ adv вероятно procedure /prə`si:фэ/ n процедура proceedings /prəu`si:dɪŋz/ n pl. труды, записки ученого общества promote /prə`məut/ v продвигать proper /`propə/ adj соответствующий properly /`propalı/ adv соответствующим образом protect /prə`tekt/ v защищать

protein / prauti:n/ *n* белок, протеин

protrude /prə`tru:d/ v выпячиваться, выдаваться prove /pru:v/ v доказывать provide /prə`vaɪd/ v обеспечивать psychiatrist /saɪ`kaɪətrɪst/ n психиатр psychiatry /saɪ`kaɪətrɪ/ n психиатрия psychology /saɪ`kɒlədʒɪ/ n психология psychotropic / 'saɪkə`trapɪk/ n психотропное средство; adj психотропный pulse rate /pʌls reɪt/ частота пульса pump /pʌmp/ n насос; v накачивать purpose /`рз:pəs/ n цель

Q

quality /`kwɔlɪtɪ/ n качество quantity /`kwɔntɪtɪ/ n количество quiz /kwɪz/ n тест quote /kwəut/ n цитата

radioactive / reidiəu`æktiv/ adj радиоактивный radius /`reidjəs/ n радиус; лучевая кость (предплечья) range /reɪnʤ/ n ряд, диапазон rare /reə/ adj редкий ratio /`reɪʃɪəu/ n соотношение, коэффициент reach /ri:tʃ/ v достигать reason /`ri:zən/ n причина recipient /rɪ`sɪpɪənt/ n реципиент record /`rekəd/ n запись recovery /ri`kavəri/ n выздоровление rectal /`rektəl/ adj ректальный reduce /rɪ`dju:s/ v снижать reduction /rɪ`dʌk ʃən/ n снижение refer /rı`fə:/ v обращаться, направлять reference /`refərəns/ v обращение, отсылка refreshment /ri`fre [mənt/ n восстановление сил; отдых refrigerate /ri`fridgəreit/ v охлаждать refuse /rı`fju:z/ v отказывать relate /ri`leit/ v относиться release /rɪ`li:s/ v высвобождать, выделять **relief** /rɪ`li:f/ *n* облегчение relieve /rɪ`li:v/ v облегчать remain /ri`mein/ v оставаться remarkable /rɪ`mɑ:kəbl/ adj замечательный, выдающийся remedy / remadi/ n средство, лекарство remind /ri`maind/ v напоминать render /`rendə/ v оказывать repair /rɪ`peə/ v ремонтировать replace /ri`pleis/ v замещать reproductive /,ri:prə`dʌktɪv/ adj репродуктивный require /ri`kwaiə/ v требовать requirement /ri`kwaiəmənt/ n требование

research /ri`sɜ:tʃ/ *n* научное исследование reside /ri`zaɪd/ *v* жить, находиться resistance /ri`zɪstəns/ *n* сопротивляемость.

устойчивость

respiration /ˌrespi`rei∫ən/ n дыхание

respiratory /rɪ`spirətəri/ adj дыхательный

responsibility /rɪˌspɒnsə`biliti/ n

ответственность

responsible /rɪ`spɒnsɪbl/ adj ответственный restrictive /rɪ`strɪktɪv / adj ограничивающий retirement /rɪ`tаɪəmənt/ n отставка, пенсия

review /rɪ`vju:/ *v* делать обзор

reward /rɪ`wɔ:d/ n награда

Rh (rhesus) factor /, d:r`eɪtʃ (`ri:səs)`fæktə/ резус-фактор

rib /rɪb/ n ребро

riboflavin /,raɪbəu`fleɪvɪn/ *n* рибофлавин, витамин В₂

ribosome / raɪbə`səum/ n рибосома

rice /rais/ n рис

rickets /`rɪkɪts/ n рахит

rough /rʌf/ adj жесткий, неровный

roughly / rʌflɪ/ adv приблизительно,

ориентировочно

route /ru:t/ (of administration) способ применения (лекарственного средства) routine /ru:`ti:n/ adj стандартный, обычный rush /raf/ v бросаться, нестись

S

sacrum /`seɪkrəm/ *n* крестец

safe /seɪf/ *adj* безопасный **sailor** /`seɪlə/ *n* моряк

salivary /sə`laɪvərı/ adj слюнной

salmon /`sæmən/ n лосось, сёмга

sample /sɑ:mpl/ *n* пример, образец; *adj* примерный

saturated /`sætjureɪtɪd/ adj насыщенный

scales /skeɪlz/ n pl. весы

scapula /`skæpjulə/ *n* лопатка

scar /ska:/ n шрам

schedule /`ʃədju:l/ v назначать, планировать

screen /skri:n/ v проводить регулярное

медицинское обследование

scurvy /`skə:vɪ/ *n* цинга

secondary /`sekəndərı/ adj вторичный

sedative /`sedativ/ *n* седативное,

успокоительное средство; *adj* седативный

seed /si:d/ n семя

seek /si:k/ v irreg. искать

semisolid /ˌsemi`salɪd/ adj полутвердый

senior /`si:nɪə/ n человек, старший по

званию/возрасту

separate /`sepərət/ adj отдельный

serum /`sɪərəm/ *n* сыворотка

severe /si`vɪə/ adj тяжелый

sex /seks / adj половой

shake / [eɪk/ v irreg. трясти, дрожать

shelf /[elf/ *n* полка

shellfish /` \int əlfI// n моллюск, ракообразное

shinbone /`ſɪnbəun/ n большеберцовая кость

shoulder /` [əuldə/ *n* плечо

shoulder blade /` ʃəuldebleɪd/ *n* лопатка

shrink /ʃrɪŋk/ v уменьшаться, сокращаться

sick /sɪk/ adj больной

side effect /said i`fekt/ побочный эффект

sign /saɪn/ n знак; признак болезни

(объективный)

similarity /simi`læriti/ n сходство

site /saɪt/ *n* место

skeletal muscle /`skelətəl mʌsl/ скелетная

мышца

skeleton /`skelitən/ *n* скелет

skill /skɪl/ *n* умение, навык

skin /skin/ n кожа

skull /skʌl/ *n* череп

sleeplessness /`sli:pləsnəs/ n бессоница

slide /slaɪd/ n слайд, предметное стекло

(микроскопа); у скользить

slow twitch fibre /slau twitf `faiba/

медленносокращающееся волокно

smallpox /`smɔ:lpoks/ n оспа

smell /smel/ *v* пахнуть, нюхать

smooth /smu:ð/ adj гладкий, ровный

smooth muscle /smu:ð mʌsl/ гладкая мышца

snack foods закуски

sneeze /sni:z/ v чихать

socket /`sakɪt/ n ямка, углубление

sodium /`səudɪəm/ *n* натрий

soil /sɔɪl/ n почва

sole /səul/ *n* подошва, ступня

solely /'səullı/ adv исключительно, только

solid /`salɪd/ adj твердый

soluble /`saljubl/ adj растворимый

solution /sə`lu:[ən/ n раствор

sound /saund/ adj здоровый, крепкий

source /sɔ:s/ *n* источник

soybeans /`sɔɪbi:nz/ n pl. соевые бобы

space /speis/ *n* пространство, космос

specimen /`spesəmɪn/ n образец

sphygmomanometer / sfigməmæn`amitə/ n сфигмоманометр (прибор для измерения

кровяного давления)

spinal column /`spaməl `kaləm/ позвоночный

spindle-shaped /`spindlfeipt/ adj

веретенообразный

spine /spain/ *n* позвоночник

spirit /`spirit/ n спирт, алкоголь

spleen /spli:n/ n селезенка

sprain /sprein/ n растяжение

squeeze /skwi:z/ v сжимать, выдавливать

starchy /sta:tʃɪ/ adj содержащий крахмал

stem cell стволовая клетка stick /stik/ v прилипать, приклеиваться **stomach** /'stʌmək/ *n* желудок **storage** /`stɔ:rɪʤ/ *n* хранение storage area место для хранения (лекарственных средств в аптеке)

store /sto:/ n запас; v хранить strain /strein/ n натяжение **strand** /strænd/ *n* жила, прядь

stranger /`streɪnʤə/ *n* незнакомец;

посторонний человек

streak /stri:k/ v полоска, прожилка

strength /stren θ / n сила, эффективность **strengthen** / sten θ an/ ν усиливать, укреплять stretch /stretf/ n вытягивание; v растягиваться

striated /stri`eitid/ adj бороздчатый,

полосатый

striking /`straɪkɪŋ/ adj поразительный

string /strin/ *n* веревка

stripy /`straipi/ adi полосатый

stroke /strauk/ n инсульт

stubborn / stabən/ adj упрямый

subclavian /səb`kleiviən/ adj подключичный sublingual /səb`lɪngwəl/ adj подъязычный

subsequent /`sʌbsɪkwənt/ adj последующий

suffer /`sʌfə/ v страдать

sufficient /sə`fɪ[ənt/ adj достаточный

suggest /sə`dʒest/ v предложить

sunflower /`sʌnflauə/ n подсолнечник

supplement /`sʌplɪmənt/ n добавка; v

добавлять

supply /sə`plaɪ/ v снабжать

support /sə`pɔ:t/ v поддерживать suppose /sə`pəuz/ v предположить

suppository /sə`pazıtrı/ n суппозиторий, свеча surface

surgeon /`sa:dʒən/ n хирург

surgery / s3:dy arɪ/ n хирургия; кабинет врача; приемные часы

surround /sə`raund/ v окружать survive /sə`vaɪv/ v выживать

suspect /sə`spekt/ v подозревать

suture /`sju:tʃə/ n шов

swallow /`swaləu/ v глотать

sweets /swi:ts/ *n pl.* сладости

swell /swel/ v отекать

swelling /`swelin/ n отек

symptom /`simptəm/ n симптом, признак

болезни (субъективный) **syringe** /si`rɪnʤ/ *n* шприц

syrup /`sɪrəp/ *n* сироп

take off /teɪk of/ v развиваться стремительно tarsals /`ta:səlz/ n pl. предплюсневые кости temple /`templ/ n висок

temporary /`tempərəri/ adj временный

temporomandibular / tempərəmən`di:bjulə/ adi

височно-челюстной

tendon /`tendən/ *n* сухожилие

tension / ten san / n напряжение, натяжение

term /tə:m/ n термин; v давать название

test tube /test tju:b/ пробирка

therapeutic / θегә pju:tɪk/ adj лечебный,

терапевтический

therefore /`ðeəfɔ:/ adv следовательно

thermometer /θə`mamıtə/ n градусник,

термометр

thiamine / haɪəmi:n/ n тиамин, витамин B₁

thigh $/\theta$ аг/ n бедро, бедренная кость

thoracic /θə`ræsık/ adj грудной

throat /θrəut/ *n* горло

п тромбоцит, кровяная пластинка

through /Oru:/ prep через, сквозь

thumb θ_{Λ} / θ_{Λ}

thymus (gland) / θaiməs (glænd)/ n

вилочковая железа

tibia /`tɪbɪə/ n большая берцовая кость

tie /tai/ v завязывать, связывать

tincture /`tɪŋktʃə/ n настойка, тинктура

tiny /`taɪnɪ/ adj маленький, крошечный

tire /taɪə/ v утомлять, уставать tissue /`tɪsju:/, /`tɪʃu:/ *n* ткань

tocopherol /ta`kafə ral/ n токоферол, витамин

toddler /`tadlə/ n ребёнок, начинающий

toe /təu/ *n* палец ноги

tolerate /`taləreit/ v переносить, выносить

tonque /tʌn/ n язык

tonsil /`tansəl/ n миндалина, миндалевидная

tough /`taf/ adj сложный, жесткий

tongue /tʌŋ/ n язык

trade name /treid neim/ фирменное название, торговое название

trademark /`treɪdmɑ:k/ *n* товарный знак,

фабричная марка

trans fats /`træns fæts/ n pl. транс-изомеры

жирных кислот (ТИЖК)

transfusion /træns`fju:ʒən/ n переливание крови

transliterate /trænz`litereit/ v

транслитерировать, передавать буквами

другого алфавита

transmit /trænz`mɪt/ v передавать

trauma / tro:mə/ n травма

track /træk/ v отслеживать

treat /tri:t/ v лечить

treatise /`tri:tiz/ n трактат, научный труд treatment /`tri:tment/ n лечение trunk /trлnk/ n туловище tryptophan /trip`tafen/ n триптофан (аминокислота) tuberculosis /tju,bs:kju`leusis/ n туберкулёз tubule /`tju:bju:l/ n каналец tumour /`tju:me/ n опухоль tuna /`tju:ne/ n тунец (рыба) turn /te:n/: in turn в свою очередь twist /twist/ v скручивать, изгибаться

U

ulcer /`\alsə/ n язва ulna /`ʌlnə/ n локтевая кость **ultrasound** / `\altrasaund/ n ультразвук ultrasound investigation / Altrasaund ın,vestı`qeı[ən/ ультразвуковое исследование umbilicus /лm`bɪlɪkəs/ n пуп, пупок unbalanced diet /\n\bælanst daiet/ несбалансированное питание unconscious /An`kAn [əs/ adj без сознания undergo / Anda`gau/ v irreg. подвергаться undesirable / Andı zarərəbl/ adj нежелательный unicellular / ju:nı`seljələ/ adj одноклеточный unit /`ju:nɪt/ n единица; раздел **universe** /`ju:nɪvə:s/ *n* Вселенная unsaturated /An`sætjureitid/ adj ненасышенный unstriated /ʌnstrɪ`eɪtɪd/ adj гладкий (о мышцах) upper /`лрә/ adj верхний up-to-date /,лрtə`deɪt/ adj современный **urea** /juə`ri:ə/ n мочевина urgent /`з:dʒənt/ adi срочный

V

urine testing / juərın `testɪŋ/ анализ мочи

vacuole /`vækjuəul/ n вакуоль, небольшая полость (в ткани)
valuable /`væljubl/ n важный
value /`vælju:/ n ценность, важность
vein /veɪn/ n вена
vertebra (pl. vertebrae) /`və:tɪbrə (`və:tɪbri:)/ n
позвонок
vessel /`vesəl/ n сосуд
victim /`vɪktɪm/ n жертва, пострадавший
violate /`vaɪəleɪt/ v нарушать
viscous /`vɪskəs/ adj вязкий

vision /`vıʒən/ n зрение
vital /`vaɪtəl/ adj жизненно важный
vitamin /`vɪtəmɪn/ n витамин
volume /`valju:m/ n объём
voluntary /`valəntrɪ/ n произвольный
vomit /`vpmɪt/ v рвать (о пище)
vomiting /`vamɪtɪŋ/ n рвота

W

waiting area /`weitiŋ`eəriə/ место для ожидания (в аптеке)
wall /wo:l/ n стена, стенка
ward /wo:d/ n палата
ward round /wo:d raund/ обход палат
warning /`wo:niŋ/ n предостережение
warrant /`worənt/ v оправдывать, служить
основанием
waste (product) /weist (`pradakt)/ n продукты
выделения
water-soluble /`wo:təˌsaljubl/ adj
водорастворимый
weaken /`wi:kən/ v ослаблять

weaken / wi:kən/ v ослаолять
weight /weit/ n вес
wholegrain / həul`grein/ adj цельнозерновой
wire /weit/ n проволока, провод
wonder /`wʌndə/ n чудо; v хотеть знать,
интересоваться

World Health Organisation (WHO) /w3:ld helθ ,ɔ:gənar`zeɪ∫ən / Всемирная организация здравоохранения (ВОЗ) worn /wɔ:n/ adj изношенный; изнуренный wound /wund/ n ранение, травма wrist /rɪst/ n запястье

TABLE OF TENSES

Active Voice

ASPEC	T	SIMPLE	CONTINUOUS	PERFECT	PERFECT CONTINUOUS
		a common aspect	a process	priority	priotiry + process
MEANI	NG	When?	At what time?	By what time?	Since what time? How long?
Period of	time	usually, often, always, seldom, every day (week, month, year)	now, at the moment, at present	ever, never, just, already, yet, by 3 p.m., lately, recently	since 3 p.m., for a long time, for a month
	+	V, Vs	am is + Ving are	have + Ved, V ₃ has	have +been + Ved, V ₃ has
Present	?	do V does	inversion	inversion	inversion
	-	do +not +V does	am is + not + Ving are	have +not + Ved, V ₃ has	have + not + been + Ving has
Period of	time	yesterday, last week (month, year), long ago, in 2014	yesterday at 3 p.m., yesterday from 6 to 7, when you came, while	yesterday by 3 p.m., before something happened	since 3 p.m., for some time in the past
	+	Ved, V ₂	was + Ving were	had + Ved, V ₃	had + been + Ving
Past	?	did V	inversion	inversion	inversion
	-	did + not +V	was + not + Ving were	had +not +Ved, V ₃	had + not + been + Ving
Period of	time	tomorrow, nex wekk (month, year)	tomorrow at 3 p.m., tomorrow from 6 to 7, when you come, while	tomorrow by 3 p.m., by some time in the future	tomorrow by 3 p.m., by some time in the future
	+	will + V	will + be + Ving	will + have + Ved, V ₃	will + have + been + Ving
Future	?	inversion	inversion	inversion	inversion
	-	won't +V	won't + be + Ving	won't + have + Ved, V ₃	won't + have + been + Ving

Passive Voice

ASPEC	T	SIMPLE	CONTINUOUS	PERFECT
Present	+	am is + Ved, V ₃	am is + being + Ved, V ₃	have + been + Ved, V ₃
	?	inversion	inversion	has inversion
	-	am is + not + Ved, V₃ are	am is + not + being + Ved, V₃ are	have + not + been + Ved, V₃ has
Past	+	was + Ved, V ₃ were	was + being + Ved, V ₃ were	had + been + Ved, V ₃
	?	inversion	inversion	inversion
	-	was + not + Ved, V ₃ were	was + not + being + Ved, V ₃ were	had + not + been + Ved, V ₃
Future	+	will + be + Ved, V ₃	-	will + have + been + Ved, V ₃
	?	inversion		inversion
	-	won't + be + Ved, V ₃		won't + have + been + Ved, V ₃