CHECK YOUR ENGLISH VOCABULARY FOR

Medicine

Third Edition

All you need to improve your vocabulary

CHECK YOUR ENGLISH VOCABULARY FOR

MEDICINE

third edition

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Introduction

The worksheets in this workbook contain a variety of exercises appropriate for students requiring a working knowledge of English medical terminology. The worksheets can be used either for self-study or in the classroom and can be completed in any order. Several have 'extensions': short classroom exercises based on the language in the main exercise. All the questions within this workbook are based on the A & C Black *Dictionary of Medical Terms*, fourth edition (ISBN 0 7136 7603 5).

This workbook is aimed at students with at least an intermediate level of English. However, many people who work in medicine have to read in English on a regular basis; students with a more basic level of English may therefore already have the passive vocabulary to handle many of the exercises.

Specialist vocabulary

It is important to appreciate that 'knowing' specialist vocabulary involves more than simply recognising it.

- You can understand the meaning of a word when reading or listening and yet be unable to remember that same word when speaking or writing.
- You may remember the word, but use it incorrectly. This can be a grammatical problem, like knowing that 'fracture' can be used both as a noun and as a verb. Or it may be a question of collocation: a surgeon *makes an incision* during an operation, but when he wants a piece of bread he simply *cuts* it.
- Then there is the question of the sound of the word. Can you pronounce it? And do you recognise it when you hear it pronounced?

For these reasons - memory, use and sound - it is important that students practise specialist vocabulary so that they can learn to use it more confidently and effectively. The exercises in this workbook will help students to expand their knowledge and use of medical vocabulary.

Using the Dictionary of Medical Terms

All of the vocabulary taught or practised in this workbook is in the A & C Black *Dictionary of Medical Terms*. The *Dictionary of Medical Terms* gives definitions in simple English which students can read and understand. Many of the examples and definitions in the workbook are taken directly from the dictionary. Students should have a copy of the *Dictionary of Medical Terms* for referring to when completing the exercises; using the dictionary is an essential part of successful language learning.

Structure of a *Dictionary of Medical Terms* entry

Each entry within the dictionary includes key elements that help a student understand the definition of the term and how to use it in context. Each term has a clear example, and part of speech. This is followed by example sentences and quotations from newspapers and magazines that show how the term is used in real life. These elements of the dictionary are used to create the questions within this workbook.

Vocabulary Record Sheet

At the back of the book is a Vocabulary Record Sheet. Recording useful vocabulary in a methodical way plays a key role in language learning and could be done, for example, at the end of each lesson. The *Dictionary of Medical Terms* is a useful tool for ensuring that the personal vocabulary record is accurate and is a good source for example sentences to show how words are used, as well as for notes about meaning and pronunciation, etc.

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Using the workbook

Most students find it easier to assimilate new vocabulary if the words are learned in related groups, rather than in isolation. For example, words frequently occur in the same context as their opposites and, as such, it makes sense to learn the pairs of opposites together (see worksheets on pages 7 and 29). Similarly, mind maps encourage students to look for connections between words (see worksheet on page 9). The exercises and activities in this workbook have all been grouped into sections. These sections practise different elements of medical vocabulary, enabling the student to gain a fuller understanding of the words learnt.

The first section, **Word-building** (pages 1-9), encourages the student to identify links between words and to learn words that are morphologically related (for example, verbs and nouns which have the same stems). Within the **Parts of Speech** (pages 10-20) section, the emphasis is on understanding meanings and how to use terms in their correct grammatical forms. The worksheets in the third section practise the **Pronunciation** of medical vocabulary (pages 21-24). The section **Vocabulary in Context** (pages 25-36) includes topic-specific exercises such as identifying diseases and illnesses from their descriptions. The activities in the last section, **Puzzles & Quizzes** (pages 37-49), expand students' knowledge and use of vocabulary in a fun way.

Communicative crosswords

Included in the last section are three communicative crosswords. These are speaking exercises where students complete a half-finished crossword by exchanging clues with a partner. There are two versions of the crossword: A & B. The words which are missing from A are in B, and vice versa. No clues are provided: the students' task is to invent them. This is an excellent exercise for developing linguistic resourcefulness; in having to define words themselves, students practise both their medical vocabulary and the important skill of paraphrasing something when they do not know the word for it.

Using Communicative crosswords in the classroom

Stage 1 - Set-up. Divide the class into two groups - A and B - with up to four students in each group. Give out the crossword: sheet A to group A, sheet B to group B together with a copy of the *Dictionary of Medical Terms*. Go through the rules with them. Some answers may consist of more than one word.

Stage 2 - Preparation. The students discuss the words in their groups, exchanging information about the words they know and checking words they do not know in the *Dictionary of Medical Terms*. Circulate, helping with any problems. This is an important stage: some of the vocabulary in the crosswords is quite difficult.

Stage 3 - Activity. Put the students in pairs - one from group A and one from group B. The students help each other to complete the crosswords by giving each other clues.

Make sure students are aware that the idea is to help each other complete the crossword, rather than to produce obscure and difficult clues.

- What's one down?
- It's a person who works in a hospital.
- A doctor?
- A sort of doctor. He does operations.
- A surgeon?
- Yes, that's right.

AA	ВВ
АА	ВВ

Students work in groups, checking vocabulary

Alternatively, students can work in small groups, each group consisting of two As and two Bs and using the following strategies:

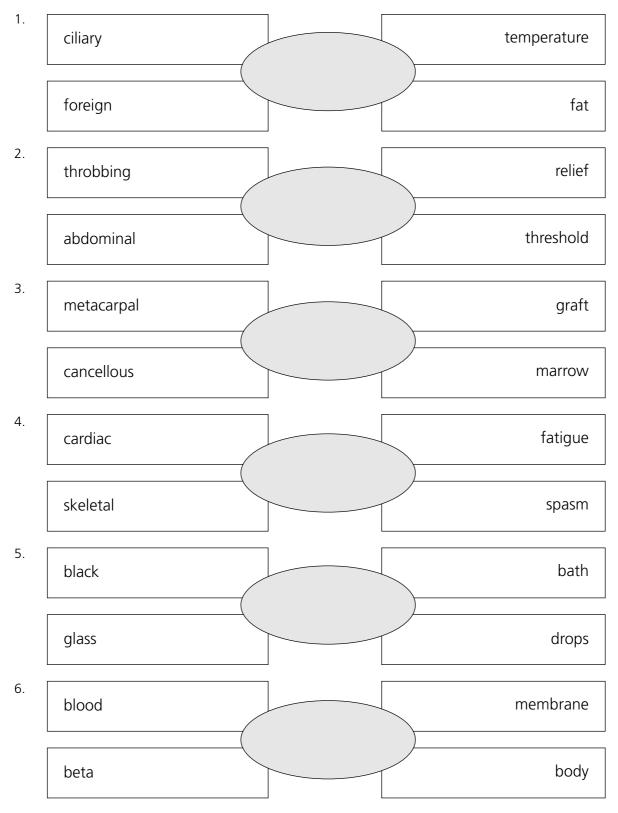
- i) defining the word
- ii) describing what the item looks like
- iii) stating what the item is used for
- iv) describing the person's role
- v) stating what the opposite of the word is
- vi) giving examples
- vii) leaving a gap in a sentence for the word
- viii) stating what the word sounds like.

АВ	АВ
A B	АВ

Students work in pairs, co-operating to solve their crosswords

Word association 1: missing links

Each of the sets of four words below can be linked by one other word. All the words are related to medical matters. What are the missing words? Write them in the centre of the charts.



Word formation: nouns

A fast way to expand your vocabulary is to make sure you know the different forms of the words you learn.

<u>Exercise 1</u>. The words in this list are all verbs. What are the noun forms? Write them in the second column. The first one has been done for you as an example.

1.	diagnose	<u>diagnosis</u>	9.	infect	·
2.	examine		10.	carry	·
3.	prescribe		11.	replace	·
4.	suffer		12.	degenerate	
5.	operate		13.	refer	·
6.	cure		14.	paralyse	
7.	recover		15.	obstruct	
8.	analyse				

<u>Exercise 2</u>. First, check your answers to Exercise 1 in the key. Then rewrite the sentences below, changing the verbs (which are in **bold**) to nouns. Do not change the meaning of the sentences, but be prepared to make grammatical changes if necessary. The first one has been done for you as an example.

I diagnosed that the patient had a heart condition.	9. We found that the tissue was infected . We found an
My diagnosis was that the patient had a heart	
2. I examined the patient fully.I made a full	10. Ten per cent of the population are thought to carry the bacteria. Ten per cent of the population are thought to be
3. I prescribed a course of antibiotics. I wrote a	11. We replaced the patient's hip. The patient was given a hip
4. He suffered very little. He experienced very little	12. His condition has degenerated .
5. We operated immediately. The	13. The patient was referred to a specialist. The patient was given a
6. This disease cannot be cured . There is no	14. His arm was paralysed after the stroke. He suffered
7. He has recovered fully. He has made a full	15. The artery was obstructed by a blood clot. The blood clot was forming an
8. The lab analysed the blood sample. The lab made an	

Two-word expressions

Make 15 two-word expressions connected with medicine by combining words from the two lists: A and B. Match each expression with the appropriate phrase. Use each word once. The first one has been done for you as an example.

Α	В
allergic	anaesthetic
balanced	attack
bedside	clock
biological	/ death
bone	diet
brain	intervention
clinical	manner
digestive	marrow
general	practitioner
general	reaction
heart	surgery
malignant	system
plastic	tooth
primary	trial
surgical	tumour

 A condition in which the heart has a reduced blood supply because one of the arteries becomes blocked by a blood clot, causing myocardial ischaemia and myocardial infarction

heart attack

- 2. A substance given to make someone lose consciousness so that a major surgical operation can be carried out
- 3. Soft tissue in cancellous bone.
- 4. The treatment of disease or other condition by surgery.
- 5. Any one of the first twenty teeth which develop in children between about six months and two-and-a-half years of age, and are replaced by the permanent teeth at around the age of six.
- 6. Surgery to repair damaged or malformed parts of the body.
- 7. A condition in which the nerves in the brain stem have died, and the person can be certified as dead, although the heart may not have stopped beating.
- 8. The way in which a doctor behaves towards a patient, especially a patient who is in bed.

- An effect produced by a substance to which a person has an allergy, such as sneezing or a skin rash.
- 10. A trial carried out in a medical laboratory on a person or on tissue from a person.
- 11. A tumour which is cancerous and can grow again or spread into other parts of the body, even if removed surgically.
- 12. A doctor who provides first-line medical care for all types of illness to people who live locally, refers them to hospital if necessary and encourages health promotion.
- 13. The rhythm of daily activities and bodily processes such as eating, defecating or sleeping, frequently controlled by hormones, which repeats every twenty-four hours.
- 14. The set of organs such as the stomach, liver and pancreas which are associated with the digestion of food.
- 15. A diet that provides all the nutrients needed in the correct proportions.

Plural formation

In *Column A* of this table there are 25 nouns relating to medicine. For each of the nouns decide whether the correct plural form is in *Column B* or *Column C* and then circle it.

The first question has been done for you as an example.

	Column A	Column B	Column C
1.	stratum	stratums	strata
2.	foot	foots	feet
3.	fibula	fibulae	fibulas
4.	glomerulus	glomerulae	glomeruli
5.	abscess	abscesses	abscessi
6.	joint	jointes	joints
7.	bulla	bullae	bullas
8.	testis	testises	testes
9.	septum	septa	septums
10.	oesophagus	oesophaguses	oesophagi
11.	diagnosis	diagnoses	diagnosises
12.	humerus	humeruses	humeri
13.	syringe	syringes	syringae
14.	acetabulum	acetabula	acetabulums
15.	larva	larvae	larvi
16.	chorda	chordas	chordae
17.	varix	varices	varixi
18.	fungus	fungi	funguses
19.	ganglion	ganglions	ganglia
20.	villus	villi	villae
21.	atrium	atria	atriums
22.	pons	pontes	ponses
23.	ovum	ovums	ova
24.	bout	bouts	boutae
25.	cortex	cortexes	cortices

Word formation: adjectives

The italicised words in the sentences in Column A are all nouns. What are the adjective forms? Complete the sentences in Column B using the correct adjective forms.

	Column A	Column B
1.	The surgeons operated to repair the defect on the patient's heart valve.	The surgeons operated to repair the patient's
2.	His diet has a calcium <i>deficiency</i> .	His diet is calcium
3.	She has a physical <i>dependence</i> on amphetamines.	She is physically
4.	The doctor noted an <i>excess</i> of bile in the patient's blood.	The doctor noted an
5.	An attack of <i>hypoglycaemia</i> can be prevented by eating glucose or a lump of sugar when feeling faint.	A
6.	The vaccine should give <i>immunity</i> to tuberculosis.	The vaccine should make you
7.	They have periods of complete inactivity.	They have periods when they are completely
8.	The <i>pain</i> in his foot is so great that he can hardly walk.	His foot is so
9.	I injured my <i>spine</i> in the crash.	I suffered
10.	She complained of <i>stiffness</i> in the joints.	She complained of

Word association 2: partnerships

Exercise 1.

Link each *verb* on the left with a *noun* on the right to make 10 'partnerships'. The first one has been done for you as an example.

	Verbs	Nouns
1.	administer	an improvement
2.	analyse	a baby
3.	arrange	antibiotics
4.	burp	the treatment
5.	catch	some infections
6.	detect	an appointment
7.	discontinue	a sample
8.	ease	the pain
9.	resist	a drug
10.	prescribe	a cold

Exercise 2.

Complete these sentences using the partnerships from Exercise 1. You may have to make some changes to fit the grammar of the sentences. The first one has been done for you as an example.

1.	The doctor will <u>administer a d</u>	rug to the patient.	
2.	She was		
3.	As soon as the patient reported sev	vere side-effects, the doctor	
4.	I've from	one of my colleagues at work.	
5.	The laboratory	of the food and found trace	es of bacteria.
6.	A healthy body can	·	
7.	I would like to	with the dental hygienist fo	r 10.00am tomorrow.
8.	She had an injection to	in her leg.	
9.	The health visitor advised the new p	parents to	after feeding.
10.	The nurses	in the patient's condition.	

Opposites 1: prefixes

Exercise 1.

English often uses prefixes to create opposites. There are several different prefixes that are used. Choose the right prefix for each of the adjectives below and write them into the table. The first one has been done for you:

active adequate coherent compatible complete
conscious controllable dependent digested direct fertile fit healthy
hygienic legal movable operable palpable pure qualified reducible
regular sanitary soluble stable well

il-	im-	in-	ir-	un-
1.	1.	1. inactive	1.	1.
	2.	2.	2.	2.
	3.	3.		3.
		4.		4.
		5.		5.
		6.		6.
		7.		7.
		8.		8.
		9.		9.
		10.		
		11.		

Exercise 2.

Use ten of the adjectives in the table to complete these sentences. The first one has been done for you as an example.

1.	He was found <u>unconscious</u> in the street.
2.	He felt and had to go home.
3.	The serum makes the poison
4.	The children have a very diet.
5.	The nurse noted that the patient had developed an pulse.
6.	She used to play a lot of tennis, but she became in the winter.
7.	The surgeon decided that the cancer was
8.	Cholera spread rapidly because of the conditions in the town.
9.	The patient was showing signs of an mental condition.
10.	She has an desire to drink alcohol.

Extension. Work with a partner and test each other. One partner closes the book, while the other asks questions such as "What's the opposite of conscious?".

Word formation: verbs

Exercise 1.

The words listed in the table below are nouns. What are the verb forms of these nouns? The first question has been done for you as an example.

1.	abuse	abuse	16.	perspiration
2.	admission		17.	preparation
3.	bandage		18.	provision
4.	blood		19.	reabsorption
5.	breath		20.	regeneration
6.	coagulation		21.	registration
7.	consultation		22.	regurgitation
8.	convalescence		23.	rehabilitation
9.	fertilisation		24.	reproduction
10.	identification		25.	resuscitation
11.	immunisation		26.	sedation
12.	implant		27.	stammer
13.	maceration		28.	stitch
14.	management		29.	suppression
15.	occurrence		30.	sweat

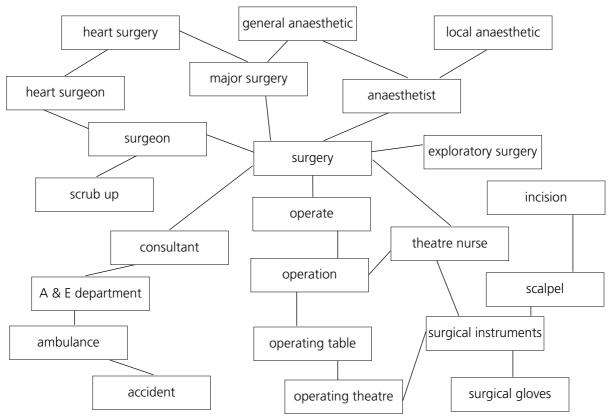
Exercise 2.

Choose ten verbs from Exercise 1 and write a sentence below for each one. Write the correct form of each verb in the column on the right and leave gaps for the verbs in the sentences. Cover up the right-hand column and give the sentences to another student as a test. For example:

	She .	with her local GP.	registered	
1				
2				
3				
4				
5				
6				
7				
8				
9				
1	0.			

Word association 3: mind maps

A mind map is a way of organising vocabulary to show the connections between words. This mind map is based on the word 'surgery'.



Exercise 1.

Find words and expressions in the mind map that fit the following definitions.

- 1. A special room in a hospital, where surgical operations are carried out
- 2. A nurse who is specially trained to assist a surgeon during an operation
- 4. Surgical operations involving important organs in the body
- 5. A doctor who specialises in surgery
- 6. An anaesthetic which removes the feeling in a single part of the body only
- 7. A senior specialised doctor in a hospital
- 8. A surgical operation to remedy a condition of the heart
- 9. To clean the hands and arms thoroughly before performing surgery
- 10. The treatment of diseases or disorders by procedures which require an operation to cut into, to remove or to manipulate tissue, organs or parts

Exercise 2.

Design a mind map for one or more of the following:

- health
- hospital
- patient

Nouns

There are 20 nouns connected with medicine in the box below. Use them to complete the sentences - in some cases you will need to make them plural. The first one has been done for you as an example.

accident allergy ambulance biopsy consent course examination excess overdose paroxysm exercise injection intake progress rash recurrence surgery tendency treatment vaccination

1.	He developed an <u>allergy</u> to penicillin.
2.	He suffered of coughing in the night.
3.	She went into a coma after an of heroin.
4.	The patient will need plastic to remove the scars he received in the accident.
5.	She took a of steroid treatment.
6.	He had a of a fever which he had caught in the tropics.
7.	There is a to obesity in her family.
8.	From the of the X-ray photographs, it seems that the tumour has not spread.
9.	The doctor gave him an to relieve the pain.
10.	He doesn't take enough: that's why he's fat.
11.	The injured man was taken away in an
12.	She was advised to reduce her of sugar.
13.	The of the tissue from the growth showed that it was benign.
14.	The parents gave their for their son's heart to be used in the transplant operation.
15.	The doctors seem pleased that she has made such good since her operation.
16.	This is a new for heart disease.
17.	Her body could not cope with an of blood sugar.
18.	Three people were injured in the on the motorway.
19.	is mainly given against cholera, diphtheria, rabies, smallpox, tuberculosis and typhoid.
20.	She had a high temperature and then broke out in a

Adjectives 1

hygienic

Complete the sentences using the adjectives in the box. Use each adjective once only. The first one has been done for you as an example.

delicate

depressed

hoarse

confused

compatible

aware

	inactive inborn incipient infectious inoperable insanitary lethal motionless poisonous predisposed regular safe severe
1.	This is a <u>safe</u> painkiller, with no harmful side-effects.
2.	Some mushrooms are good to eat and some are
3.	The surgeons are trying to find a donor with a blood group.
4.	The surgeon decided that the cancer was
5.	These fumes are if inhaled.
6.	The body has an tendency to reject transplanted organs.
7.	The tests detected diabetes mellitus.
8.	The serum makes the poison
9.	A outbreak of whooping cough occurred during the winter.
10.	Old people can easily become if they are moved from their homes.
11.	Catatonic patients can sit for hours.
12.	Don't touch food with dirty hands: it isn't
13.	All the members of the family are to vascular diseases.
14.	She is not of what is happening around her.
15.	The bones of a baby's skull are very
16.	Cholera spread rapidly because of the conditions in the town.
17.	He was after his exam results.
18.	He was advised to make visits to the dentist.
19.	This strain of flu is highly
20	He hecame after shouting too much

Adjectives 2

Complete the sentences using the adjectives in the box. Use each adjective once only. The first one has been done for you as an example.

						harmful persistent	
	severed	d subje	ective	tender	viable		

1.	These fumes are <u>lethal</u> if inhaled.
2.	The report was of the state of aftercare provision.
3.	She had a cough.
4.	The psychiatrist gave a opinion on the patient's problem.
5.	My grandfather is quite now.
6.	The skin has become around the sore.
7.	It is important for elderly patients to remain
8.	His foot is so he can hardly walk.
9.	A fetus is by about the 28th week of the pregnancy.
10.	You have to speak slowly and clearly when you speak to Mr Jones because he's quite
11.	The baby was born five weeks
12.	The patient was passing quantities of urine.
13.	He felt chest pains.
14.	He is and has to be looked after by a nurse.
15.	The children were tested for viral infection.
16.	He has an desire to steal small objects.
17.	Her shoulders are still where she got sunburnt.
18.	Surgeons tried to sew the finger back onto the patient's hand.
19.	She was for weeks after the death of her husband.
20.	Bright light can be to your eyes.

Verbs 1

The sentences in *Column A* contain examples of useful verbs in medicine. In *Column B* there are definitions of the verbs. Read the examples and match the verbs (in *italics*) with the definitions. Then write the infinitive forms into the spaces in the definitions in *Column B*. The first one has been done for you as an example.

Column A: Examples			Column B: Definitions
1.	After the accident the passengers were <i>treated</i> in hospital for cuts.	a)	<u>diagnose</u> means to identify a condition or illness, by examining the person and noting symptoms
2.	Nurses <i>dressed</i> the wounds of the accident victims.	b)	means to to use medical methods to cure a disease or help a sick or injured person to recover
3.	He <i>specialises in</i> children with breathing problems.	c)	means to make someone healthy
4.	She <i>suffers</i> from headaches.	d)	means to put someone or something at risk
5.	She was vaccinated against smallpox as a child.	e)	means to give instructions for a person to get a specific dosage of a drug or a specific form of therapeutic treatment
6.	Some forms of cancer cannot be cured.	f)	means to study or treat one particular disease or one particular type of patient
7.	The calamine lotion will soothe the rash.	g)	means to have an illness for a long period of time
8.	The doctor <i>diagnosed</i> appendicitis.	h)	means to treat a person for a condition by cutting open the body and removing a part which is diseased or repairing a part which is
9.	The doctor <i>prescribed</i> a course of antibiotics.	.,	not functioning correctly
10.	The drug <i>suppresses</i> the body's natural instinct to reject the transplanted tissue.	i)	means to introduce vaccine into a person's body in order to make the body create its own antibodies, so making the person immune to the disease
11.	The operation may <i>endanger</i> the life	j)	means to relieve pain
	of the patient.	k)	means to clean a wound and put a covering over it
12.	The surgeons decided to <i>operate</i> as the only way of saving the baby's life.	l)	means to reduce the action of something completely, e.g. to remove a symptom or to stop the release of a hormone

Verbs 2

The sentences in *Column A* contain examples of useful verbs in medicine. In *Column B* there are definitions of the verbs. Read the examples and match the verbs (in *italics*) with the definitions. Then write the infinitive forms into the spaces in the definitions in *Column B*. The first one has been done for you as an example.

	Column A: Examples	Column B: Definitions
1.	He was admitted this morning.	a) means to pass from one place to another
2.	The cancer is not <i>responding</i> to drugs.	b) means to damage or hur someone or something
3.	He was still <i>limping</i> three weeks after the accident.	c) means to go through or into something
4.	The doctors <i>saved</i> the little boy from dying of cancer.	d) means to make a hole through something
5.	The end of the broken bone has penetrated the liver.	e) means to investigate the inside of something
6.	The new heart has <i>performed</i> very well.	f) means to stop someone from being hurt or killed
7.	The patient was <i>transferred</i> to a special unit.	g) means to walk awkwardl
8.	She fainted when she saw the blood.	malformation of a leg or foot
9.	The surgeon <i>probed</i> the wound with a scalpel.	h) <u>admit</u> means to register a patient in a hospital
10.	Walking to work every day won't harm you.	i) means to stop something from happening
11.	The treatment is given to <i>prevent</i> the patient's condition from getting worse.	j) means to react to something or to begin to get better because of a treatment
12.	The ulcer <i>perforated</i> the duodenum.	k) means to stop being conscious for a short time and, usually, fall down
		l) means to work

Verbs: past tense ~ regular verbs

All the verbs in the box relate to medical matters. Use the past tense forms to complete the sentences. The first question has been done for you as an example.

adapt aggravate develop examine faint fracture prolong react receive recover require strain suffer tremble weigh

1.	He <u>received</u> a new kidney from his brother.
2.	He his back lifting the table.
3.	She from her concussion in a few days.
4.	It was so hot standing in the sun that he
5.	The doctors decided that her condition surgery.
6.	She from poor circulation, which made her feel the cold.
7.	She well to her new diet.
8.	The embryo quite normally in spite of the mother's illness.
9.	His tibia in two places.
10.	The patient badly to the penicillin.
11.	The nurse the baby on the scales.
12.	The treatment her life by three years.
13.	Playing football only his knee injury.
14.	The doctor the boy's throat.
15.	His hands with the cold.

Verbs: mixed tenses

All the verbs in the box relate to medical matters. Use them to complete the sentences. You may have to change the forms of the verbs to fit the grammar of the sentences. (Remember the five forms of English verbs - for example: take, takes, took, taken, taking.) The first question has been done for you as an example.

amputate bite bruise burn control expel freeze heal hurt measure overcome progress rebuild undergo visit

1.	I am going to <u>visit</u> my brother in hospital.
2.	She her disabilities and now leads a normal life.
3.	After the accident her pelvis was completely
4.	She has several operations.
5.	They my big toe to remove the nail.
6.	She her knee on the corner of the table.
7.	A thermometer temperature.
8.	Air is from the lungs when a person breathes out.
9.	His arm is so much he can't write.
10.	A minor cut will faster if it is left without a bandage.
11.	The girl her hand on a hot frying pan.
12.	He his asthma with a bronchodilator.
13.	The patient's leg needs to be below the knee.
14.	She was by an insect.
15.	The doctor asked how the patient was

Phrasal verbs

Natural English conversation includes many phrasal verbs. These are verbs made up of two words: a verb and a preposition. For example: 'I *get up* at eight o'clock'. Complete the sentences below using the phrasal verbs in the box. You will have to change the forms of some of the verbs to make the grammar of the sentence correct. The first one has been done for you as an example.

1.	He <u>got over</u> his cold.	Phrasal verbs
2.	The nurses areher very well.	break down = to start to cry and become upset
3.	He must have the disease when he was travelling in Africa.	bring up = to cough up material such as mucus from the lungs or throat
4.	She often in front of the TV.	cough up = to cough hard to expel
5.	When we told her that her father was ill, she	a substance from the trachea
	·	drop off = to fall asleep
6.	She and cried as she described the symptoms to the doctor.	get around = to move about
7.	He his father.	<i>get over</i> = to become better after an illness or a shock
8.	The doctor asked him to his shirt.	give up = not to do something any more
9.	He was mucus.	go down = to become smaller
10.	Since she had the accident she using crutches.	knock out = to hit someone so hard that he or she is no longer conscious
11.	I was advised to smoking.	look after = to take care of a person and attend to his or her
12.	He was by a blow to the head.	needs
13.	The nurse the patient with pillows.	pass out = to faint
14.	The swelling has started to	pick up = to catch a disease
15.	She became worried when the girl started	prop up = to support a person, e.g. with pillows
	blood.	take after = to be like one or other parent
		take off = to remove something, especially clothes
		I

Extension. Work with a partner: write a dialogue which includes at least seven of the phrasal verbs from this page.

Verbs: active/passive

Active:

Change the sentences below from active to passive tense. For example:

Active: The GP referred the patient to a consultant.

Passive: The patient was referred to a consultant by the GP.

Remember that it is not always necessary to mention the subject in a passive sentence. For example:

We have identified the cause of this outbreak of dysentery.

Passive: The cause of this outbreak of dysentery has been identified. 1. The nurse noticed a rise in the patient's pulse rate. Passive: The consultant is allowing him to watch the operation. 2. Passive: All chemists sell the tablets. 3. Passive: The doctor diagnosed appendicitis. Passive: 5. The paramedics comforted the injured person until the ambulance arrived. Passive: The midwife delivered the twins. 6. Passive: 7. The gland was producing an excess of hormones. Passive: 8. They looked after him very well in hospital. Passive: 9. We examined the tissue under the microscope. Passive: 10. The doctor gave me an unpleasant mixture to drink. Passive: 11. You cannot take the lotion orally. Passive: 12. Toxic fumes poisoned the workers. Passive: 13. Doctors are predicting a rise in cases of whooping cough. The drug suppresses the body's natural instinct to reject the transplanted tissue. 14. Passive:

Adverbs

The sentences below do not read correctly. Identify the adverbs in the sentences and then swap the adverbs around so that each sentence makes sense.

Some of the adverbs could be used in several of the sentences.

1.	The bandage was medicinally tied around her wrist.
2.	Immediately, she is very advanced for her age.
3.	If the patient sweats fairly, it may be necessary to cool his body with cold compresses.
4.	The tumour is excessively placed and not easy to reach.
5.	She manages all her patients very mentally.
6.	The relief team loosely requires more medical supplies.
7.	This is a physically antiseptic solution.
8.	Mildly he is very weak, but his mind is still alert.
9.	He became ill efficiently after he came back from holiday.
10.	The herb can be used awkwardly.
11.	He has been working as a doctor only for a severely short time.
12.	Her breathing was urgently affected.

Prepositions

The sentences in this exercise contain **mistakes**. The mistakes are all in the prepositions and there are three types:

1.	missing preposition	I spoke ^him about this last week.	to
2.	wrong preposition	We're meeting again in ^Tuesday.	on
3	unnecessary preposition	I'll telephone to you tomorrow	

Find the mistakes and correct them.

- 1. The hospital has installed new apparatus through the physiotherapy department.
- 2. Her lips were cracked of the cold.
- 3. The boy's little toe was crushed the door.
- 4. The tissue was examined on the microscope.
- 5. It is important that needles used at injections should be sterilised.
- 6. He is recovering from a bout flu.
- 7. She was given to a pain-killing injection.
- 8. Some types of wool can irritate to the skin.
- 9. This report quotes the number of cases of cervical cancer from thousand patients tested.
- 10. The doctor put the patient to sleep within a strong narcotic.
- 11. She burnt her hand at the hot frying pan.
- 12. We have no spare beds on the hospital at the moment.
- 13. He will have an operation to remove of an ingrowing toenail.
- 14. Please ensure that the patient takes of his medicine.

Word stress 1

One of the keys to English pronunciation is stress - emphasis. There are three possible patterns for three-syllable words: Group A: ■□□ A: ■ □ □ hos-pi-tal B: □ ■ □ pre-scrip-tion 2 $C \cdot$ □□■ rec-om-mend 3 Read these five conversations. Find all the three-syllable words and classify them by their pronunciation. There are 27 in total. Put them in the correct sections of the table on the right. The first one has been done for you as an 6 example. 7 **Dialogue 1** When was she admitted to hospital? 8 At about four o'clock. 0 Has there been any improvement? No, her condition is stable. We're waiting to see how 10 things develop. 11 Dialogue 2 What do you recommend? 12 Well, first of all: cut down on fatty foods. 0 And what else? 13 Take regular exercise, don't smoke and keep alcohol down to a minimum. Group B: □ ■ □ admitted Dialogue 3 What's the problem? 2 I went to give him his injection and I saw that he'd started to haemorrhage. We'll have to operate. Make sure all the equipment is prepared. I'll go down to the theatre and check. 5 Dialogue 4 6 So, is it serious? 0 Don't worry. It's probably just an allergic reaction. Are you just saying that to reassure me? You're fine. Look, I'm going to give you a prescription for some painkillers... Dialogue 5 Have you got the test results yet? 10 Well, they're still incomplete, but it's clear that it's 11 positive. Any idea when infection took place? Group C: □□■ I'd say five or six weeks ago, but that's just an opinion. Do you want to see her medical history?

3

Extension. Practise the dialogues with a partner.

Word stress 2

One of the keys to English pronunciation is *stress* - emphasis. There are three normal patterns for four-syllable words:

A: ■ □ □ □ vac -ci-na-ted	B: □ ■ □ □ pneu- mo -ni-a	C: □□■□ in-flu- en -za	

<u>Exercise 1</u>. Complete the sentences below using the four-syllable words in the table. The first question has been done for you as an example.

- 1. She appeared to be improving, but a **<u>complication</u>** set in and she died a few hours later.
- 2. Bell's Palsy causes facial ______
- 3. Come right now: it's an _____!
- 4. The patient was having difficulties breathing so we put him on a ______.
- 5. She had an _____ to replace the cornea.
- 6. He was given a general ______ before the surgeons began work.
- 7. As a precaution against AIDS we use _____
- 8. He can't take aspirin: he has an _____
- 9. Rub your hands together to get the _____ going.
- 10. He couldn't ______ the movements of his arms and legs.
- 11. An _____ was organised to test the drug on a small group of people.
- 12. Tests confirmed the _____ of the growth.
- 13. This is the allergen which was _____ for the patient's reaction.
- 14. _____ showed that the food contained bacteria.
- 15. The surgeons are trying to find a _____ donor.
- 16. A diet high in _____ fats increases the risk of heart disease.
- 17. The surgeon ______ to the students how to make the incision.
- 18. As many as 60-70% of diarrhoeal deaths are caused by
- 19. Autistic children do not ______ with anyone.
- 20. _____ is a common antibiotic produced from a fungus.

<u>Exercise 2</u>. Decide which pronunciation pattern is correct for each of the words in the table and tick the appropriate column.

	A ■ □ □ □	B	C
anaesthetic			
analysis			
circulation			
communicate			
compatible			
complication			
coordinate			
dehydration			
demonstrated			
disposable			
emergency			
experiment			
intolerance			
malignancy			
operation			
paralysis			
penicillin			
respirator			
responsible			
saturated			

Present simple

Verbs in the present tense add an 's' in the third person singular: I work, you work, he/she/it works. But the 's' has three different pronunciations. Look at these examples:

A: /s/, for example *treats*B: /z/, for example *heals*C: /ɪz/, for example *changes*

Find the third person present tense verbs in these sentences and classify them by their pronunciation. Put them in the correct columns in the table on the right. Be careful: some sentences have more than one example. There are 27 verbs in total. The first one has been completed for you as an example.

- 1. The patient breathes with difficulty and coughs and sneezes constantly.
- 2. This drug helps to alleviate the symptoms and reduces the risk of reinfection.
- 3. A person whose resistance is low catches diseases more easily.
- 4. When someone panics his heart beats more rapidly and his temperature rises.
- 5. The laboratory analyses the blood samples and then the doctor examines the results and diagnoses the condition.
- 6. He then recommends a course of treatment and prescribes any necessary drugs.
- 7. This drug relaxes the muscles and relieves pain.
- 8. The gland releases hormones into the bloodstream, causing an immediate reaction.
- 9. If the patient sleeps well, he wakes feeling refreshed.
- 10. She suffers constant pain and controls it by using morphine.
- 11. This treatment counteracts the effects of the infection.
- 12. It is a procedure which cures the condition or kills the patient.
- 13. If the surgeon operates now the chance of success increases to about 50%.
- 14. The sinoatrial node regulates the heart beat.

Group A: /s/
1
2
3
4
5
6
7
8
9
Group B: /z/
1breathes
2
3
4
5
6
7
8
9
Group C: /IZ/
1
2
3
4
5
6
7
8
9

Extension. The same rule applies to plural nouns: /s/ patients, /z/ doctors, /ɪz/ nurses. Work with a partner and find five example nouns for each sound.

Past tense

Regular verbs have three different pronunciations in the past tense (or the past participle). The difference is in the sound you use for the ending. Look at these examples:

A: /t/, for example *plac<u>ed</u>*B: /d/, for example *examin<u>ed</u>*C: /ɪd/, for example *injected*

Find the past tense verbs in these sentences and classify them by their pronunciation. Put them in the correct columns in the table on the right. Be careful: some sentences have more than one verb. There are 23 examples in total. The first one has been done for you as an example.

- 1. She was vaccinated against smallpox as a child.
- 2. The doctor diagnosed him as having hepatitis B.
- 3. Her condition improved, so we reduced the dose.
- 4. He consulted a specialist, who recommended surgery.
- 5. The patient coughed and sneezed all through the consultation.
- 6. The surgeons replaced her hip with a metal one.
- 7. The doctor prescribed a course of antibiotics.
- 8. The doctor's speedy action prevented further complications.
- 9. The pharmacist mixed the chemicals in this bottle.
- 10. The surgeons operated immediately on the child.
- 11. He was completely cured.
- 12. The nurse disinfected and dressed the wound.
- 13. She was treated by a heart specialist.
- 14. His pulse rate increased by 10%.
- 15. The attack was preceded by a rise in body temperature.
- 16. The surgical instruments were sterilised before use.
- 17. Nobody noticed that the patient's blood pressure had dropped.
- 18. The surgeon probed the wound with a scalpel.

Group A: /t/
1
2
3
4
5
6
7
8
· · · · · · · · · · · · · · · · · · ·
Group B: /d/
1
2
3
4
5
6
7
Group C: /ɪd/
1vaccinated
2
3
4
5
6
7
8

Good advice

These sentences all give very good advice, but they have been divided into separate halves. Match the half-sentences in Column A with the half-sentences in Column B to make 14 sentences which are correct, complete and true.

	Column A		Column B
1.	Regular exercise is	a)	burn easily in the sun.
2.	A balanced diet should	b)	cause back pain.
3.	Medicines should	c)	be inoculated against diphtheria.
4.	A patient in shock should	d)	be kept out of the reach of children.
5.	Not taking any exercise is	e)	be kept warm and lying down.
6.	Reading in bad light can	f)	about 2.5 litres of fluid each
7.	You should do	.,	day.
8.	A normal adult should drink	g)	good for the heart.
9.	HIV can be transmitted	h)	five minutes' exercise every morning.
10.	Bad posture can	i)	be sterilised before use.
11.	People with fair complexions	j)	make the eyes ache.
12.	Surgical instruments must	k)	provide all the nutrients needed, in the correct proportions.
13.	Babies should	l)	an unhealthy way of living.
14.	Haemorrhage control routinely	m)	be by pressure and elevation.
1-7.	should	n)	by using non-sterile needles.

Extension. Working with a partner, write five pieces of medical advice.

Multiple meanings

Some words have more than one meaning. For example, the word *pulse* means the pressure wave in an artery when the heart beats, but it also refers to a certain type of vegetable: beans and peas. In the table below 19 meanings appear in the column on the left. Match each meaning to one of the seven words across the top. The first one has been done for you as an example.

- GOII				1				
		cold	fit	focus	light	notice	patient	turn
1.	A person who is in hospital or who is being treated by a doctor.							
2.	To attach an appliance correctly.							
3.	The point where light rays converge through a lens.							
4.	To see or be aware of something.							
5.	To change into something different.							
6.	Weighing a comparatively small amount.							
7.	An illness, with inflammation of the nasal passages, in which someone sneezes and coughs and has a blocked and running nose.							
8.	The centre of an infection.							
9.	To move the head or body to face in another direction.							
10.	Being able to wait a long time without getting annoyed.							
11.	A piece of writing giving information, usually put in a place where everyone can see it.							
12.	To have convulsions.							
13.	A slight illness or attack of dizziness.							
14.	A sudden attack of a disorder, especially convulsions and epilepsy.							
15.	The energy that makes things bright and helps a person to see.							
16.	To adjust a lens until an image is clear and sharp.							
17.	Strong and physically healthy.							
18.	Not warm or hot.							
19.	Referring to hair or skin which is very pale.							

Odd one out

In each set of words one is the *odd one out*: different from the others. Find the word that is different, and circle it.

For example:			
callosum	cerebellum	colliculus	coccyx

Coccyx is the odd one out. It is a bone; the others are all parts of the brain.

1.	aching	bleeding	nagging	throbbing
2.	hand	kidney	leg	liver
3.	ankle	elbow	knee	forearm
4.	ear	eye	face	nose
5.	nurse	orderly	surgeon	patient
6.	bandage	forceps	probe	scalpel
7.	expiration	inspiration	respiration	supination
8.	cataracts	eyelids	nearsightedness	strabismus
9.	improve	get better	recover	relapse
10.	iris	lens	palm	pupil
11.	oval window	semicircular canals	tympanic membrane	vertebral column
12.	aluminium	copper	iron	zinc
13.	break	crack	fracture	wound
14.	metacarpal bone	nasal bone	occipital bone	zygomatic arch
15.	liver	heart	pancreas	spleen
16.	bite	chew	swallow	taste
17.	hepatalgia	hernia	liver	hepatocyte
18.	epidermis	pore	dermis	diabetes

Body parts - categories

In this table there are 38 words for parts of the body and six categories. Decide which category or categories each part belongs to. The first one has been done for you as an example.

example.	I	ĺ	ĺ	1 .	I	I
	arm	hand	leg	foot	torso	head
abdomen					Х	
Achilles tendon						
ankle						
buttock						
calf						
chest						
chin						
ear						
elbow						
eye						
eyebrow						
eyelash						
eyelid						
finger						
forearm						
forehead						
gum						
hip						
knee						
knuckle						
lip						
nail						
navel						
neck						
nipple						
nose						
palm						
rib						
scalp						
shoulder						
sole						
temple						
thigh						
thumb						
toe						
tongue						
tooth						
wrist						
VVIIJC						

Opposites 2

Exercise 1.

Match the words in italics with their opposites in the box on the right. The first one has been done for you as an example.

1. The opposite of back is**front**..... alive 2. The opposite of acute is chronic 3. The opposite of *dead* is closed 4. The opposite of *improve* is deteriorate 5. front The opposite of *healthy* is 6. The opposite of open is ill The opposite of *major* is 7. increase 8. The opposite of *reduce* is malignant 9. The opposite of *smooth* is minor 10. The opposite of benign is rough

Exercise 2.

Complete these sentences using the words from Exercise 1. Use one word from each pair of opposites.

1.	She had an	attack of shingles.	
2.	He became excited, causing his	pulse rate to	·
3.	He was very ill, but now his cor	ndition has begun to	
4.	The calf muscles are at the	of the lowe	er leg.
5.	She put cream on her hands, w	hich were	from heavy work.
6.	The tumour is	and so may reappear eve	en if removed surgically.
7.	The hospital is	to visitors from noon to	five o'clock.
8.	The doctor arrived too late: the	patient was already	
9.	There's nothing wrong with you	u: you're completely	
10.	He had to undergo	surgery on his hea	rt.

Extension. Work with a partner and test each other. One partner closes the book, while the other asks questions such as "What's the opposite of back?".

Abbreviations

Test your medical abbreviations. What do the following stand for? Check the ones you don't know in the dictionary. The first one has been done for you as an example.

1.	A & E	Accident & Emergency
2.	AIDS	
3.	BMR	
4.	CAT	
5.	CHD	
6.	D & V	
7.	DOA	
8.	GP	
9.	HAV	
10.	HIV	
11.	MND	
12.	OTC	
13.	PM	
14.	PMA	
15.	PMT	
16.	RQ	
17.	RSI	
18.	SAD	
19.	SIDS	
20.	STI	
21.	TB	
22.	TBI	
23.	UV	
24.	VDH	
25	WHO	

Extension. Work with a partner and test each other. One partner closes the book, while the other asks questions such as "What does A & E stand for?".

Symptoms & common illnesses 1

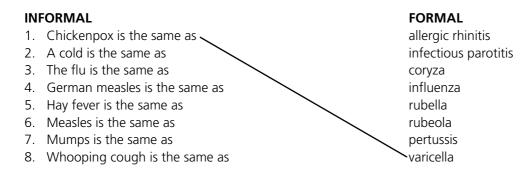
These words are all used to talk about illnesses: their symptoms and effects. Tick the ones you understand. Check the others in the dictionary.

	1. allergic reaction	6.	inflammation	11.	resistance
2	2. blister	7.	itchy	12.	runny nose
3	3. cough	8.	malformation	13.	sneeze
2	1. fever	9.	malaise	14.	spot
į	5. infectious	10.	rash	15.	swelling
Read the ri	·	ind m	atch them to the name	es of th	ne illnesses in the box on
1.	An infectious disease of the muscular aches, which is traepidemics.	ınsmitt	ed by a virus and can occur		allergic rhinitis coryza infectious parotitis influenza
2.	A common infectious viral of swollen lymph nodes and a malformation of an unborn disease while pregnant.	rash. It	can cause stillbirth or	.,	pertussis rubella rubeola varicella
3.	An illness, with inflammatio has a blocked and running i	n of th	e nasal passages, in which	someone	e sneezes and coughs and
4.	An infectious disease of chil spots which turn to itchy bli	sters.	aused by a herpes virus, ar		•
5.	An infectious disease of chil body's resistance to other d can be very serious.		-		
6.	An infectious disease of chil paramyxovirus.	dren, v	vith fever and swellings in t	he saliva	ry glands, caused by a
7.	An infectious disease affecti serious. The patient coughs coughing fit.	very ba		istic 'wh	oop' when inhaling after a
8.	Inflammation in the nose ar dust mites or animal hair.				

Symptoms & common illnesses 2

Exercise 1.

Many illnesses also have informal names. Match the informal and formal names listed below. The first one has been done for you as an example.



Exercise 2.

Complete these six conversations between doctors and patients by writing in the name of the illness. Use the informal terms from the table above.

1. What seems to be the trouble? 4. How are you today? My eyes and my nose are running all the Oh, not very well. I've got a cough and a terrible cold. I feel terrible. Do you have a fever? When did this begin? Umm, yes I do. At the beginning of July. It's probably a touch of It's probably just 5. What's the problem? 2. What's the problem? It's my daughter. She's got a fever and this It's my son. He's got a rash and swelling in swelling. his armpits. Where's the swelling? Does he have a fever? In her throat. Yes. It could be..... Hmm. He may have..... 6. So, what can I do for you? 3. How are you feeling? It's the twins. They're covered in these I've got this terrible cough. dreadful red spots. Are they experiencing any itching? Mm-hmm. And after I cough I make a noise when I try Yes, they are. to breathe. It may be..... Sounds like

Extension. Practise the conversations with a partner.

Diagnosis

Read the eleven descriptions which follow, using your dictionary as and when necessary. What is the disease or illness being described in each case?

1.	A disorder of the nervous system in which there are convulsions and loss of consciousness due to disordered discharge of cerebral neurons.
2.	A condition where tissues die and decay, as a result of bacterial action, because the blood supply has been lost through injury or disease of the artery.
3.	A condition where the lens of the eye gradually becomes hard and opaque.
4.	A progressive nervous disorder without a known cause which is a type of Parkinsonism, the main symptoms of which are trembling hands, a slow shuffling walk and difficulty in speaking.
5.	An infectious disease in which infected lumps form in the tissue. Its commonest form is infection of the lungs, causing patients to lose weight, cough blood and have a fever. It is caught by breathing in germs or by eating contaminated food, especially unpasteurised milk.
6.	A hereditary disease in which there is malfunction of the exocrine glands such as the pancreas, in particular those which secrete mucus, causing respiratory difficulties, male infertility and malabsorption of food from the gastrointestinal tract.
7.	A progressive disease of the liver, often associated with alcoholism, in which healthy cells are replaced by scar tissue.
8.	A serious, infectious disease of children. Its first symptoms are a sore throat, followed by a slight fever, rapid pulse and swelling of the glands in the neck. A fibrous growth like a membrane forms in the throat and can close the air passages. The disease is often fatal, either because the patient is asphyxiated or because the heart becomes fatally weakened.
9.	A disorder of the brain, mainly due to brain damage occurring before birth, or due to lack of oxygen during birth. The patient may have bad coordination of muscular movements, impaired speech, hearing and sight, and sometimes mental retardation.
10.	Inflammation of the membrane lining the intestines and the stomach, caused by a viral infection, and resulting in diarrhoea and vomiting.

Extension. Write a description of a disease or illness and see if your partner can recognise it.

How it works

Match the half-sentences in column A with the half-sentences in column B to make 18 sentences which are correct, complete and true. The first one has been done for you as an example.

	Column A		Column B
1.	Fluid accumulates in the tissue	a)	the acetabulum at the hip and the tibia at the knee.
2.	The autonomic nervous system works	b)	the chest muscles relax and the lungs
3.	Cartilage is thick connective tissue which		become smaller.
4.	A blood vessel is any tube (artery, vein, capillary) that	c) d)	as a man grows older of patients suffering from dropsy.
5.	The pituitary gland secretes hormones that	e)	according to the ABO system.
6.	The femur joins	f)	deoxygenated blood from the heart to the lungs for oxygenation.
7.	Expiration takes place when	g)	lines the joints and acts as a cushion.
8.	The pulmonary arteries take	h)	to digest fatty substances and to neutralise acids.
9.	The trachea runs	i)	is about 72 beats a minute.
10.	Bile is produced by the liver, stored in the gall bladder and used	j)	derived from the carotid artery.
11.	The colon is divided	k)	when a person is asleep or even unconscious.
12.	Holocrine glands	1)	to human life.
13.	The prostate gland tends to enlarge	m)	carries blood round the body.
14.	The very high frequency waves of ultrasound	n)	from the larynx to the lungs.
15.	Oxygen is essential	0)	can be used to detect and record organs or growths inside the body.
16.	The supply of blood to the sublingual region is	p)	into four distinct sections.
17.	The normal adult pulse	q)	are secretory only.
18.	Blood groups may be classified	r)	control the functioning of the other glands.

Instruments and equipment

Match each of the following instruments and items of equipment with its correct description below. The first one has been done for you as an example.

bandage catheter curette drain forceps gag hook pipette probe scalpel sling splint stethoscope stretcher syringe thermometer tourniquet wheelchair

١.	<u>wheelchair</u> = a chair with wheels in which someone can sit and move around
2.	= a small sharp-pointed knife used in surgery
3.	= an instrument used to explore inside a cavity or wound
4.	= a surgical instrument with handles like a pair of scissors, made in different sizes and with differently shaped ends, used for holding and pulling
5.	= a surgical instrument like a long thin spoon, used for scraping the inside of an organ
6.	= a thin glass tube used for taking and measuring samples of liquid
7.	= an instrument or tight bandage wrapped round a limb to constrict an artery, so reducing the flow of blood and stopping bleeding from a wound
8.	= a surgical instrument with a bent end used for holding structures apart in operations
9.	= a tube used to remove liquid from the body
10.	= an instrument placed between the teeth to stop the mouth from closing
11.	= a medical instrument made of a tube with a plunger which either slides down inside the tube, forcing the contents out through a needle as in an injection, or slides up the tube, allowing a liquid to be sucked into it
12.	= a tube passed into the body along one of the passages in the body
13.	= a piece of cloth which is wrapped around a wound or an injured limb
14.	= a triangular bandage attached around the neck, used to support an injured arm and prevent it from moving
15.	= a folding bed, with handles, on which an injured person can be carried by two people
16.	= a stiff support attached to a limb to prevent a broken bone from moving
17.	= two earpieces connected to a tube and a metal disc, used to listen to sounds made inside the body
18.	= an instrument for measuring temperature

Extension. Work with a partner and test each other. For example: "What do you call a chair with wheels in which someone can sit and move around?"

Chemistry

What are the names for the symbols of the chemical elements and compounds in the table below? Complete the 'name' column and connect each substance to the notes which refer to it. The first one has been done for you as an example.

	Symbol	Name	Notes	
1.	Na	sodium (e)	(a)	acid found in the gastric juices which helps to break apart the food
2.	Са		(b)	acid which forms cyanide
3.	Pb		(c)	main alkaloid substance found in tobacco
4.	Ti		(d)	used as a contrast when taking X-ray photographs of soft tissue
5.	Ва		(e)	the basic substance in salt
6.	Zn		(f)	metallic element which is the basis of a radioactive isotope used to treat cancer
7.	Fe		(g)	colourless gas with a sweet smell, used in combination with other gases as an anaesthetic in dentistry and surgery
8.	Со		(h)	colourless gas which is present in air and essential to human life
9.	CI		(i)	one of the common non-metallic elements which is an essential component of living matter and organic chemical compounds
10.	Не		(j)	an essential part of the red pigment in red blood cells, found in liver and eggs
11.	S		(k)	gas which combines with oxygen to form water
12.	Au		(1)	heavy soft metallic element which is poisonous in compounds
13.	0		(m)	very light gas used in combination with oxygen, especially to relieve asthma or sickness caused by decompression
14.	Н		(n)	light metallic element which does not corrode
15.	HCI		(o)	gas which is the main component of air and an essential part of protein
16.	N		(p)	metallic element which is the major component of bones and teeth
17.	HCN		(q)	powerful greenish gas, used to sterilise water
18.	С		(r)	soft yellow-coloured precious metal, used as a compound in various drugs, and sometimes as a filling for teeth
19.	N ₂ O		(s)	white metallic trace element
20.	C ₁₀ H ₁₄ N ₂		(t)	yellow non-metallic element found in some amino acids

Extension. Check the pronunciation of the 20 elements and compounds, then work with a partner to test each other: one person writes the symbol, while the other says the names.

Anagrams 1

Solve the anagrams by reading the clues and putting the letters in order to form words. Write your answers in the grid to find the mystery word spelled by their initial letters.

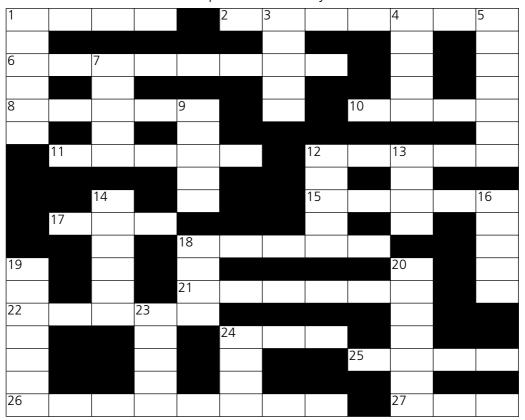
1.	Action of breathing	RAEINOPRIST
2.	Sensitivity to certain substances, such as pollen or dust which cause a physical reaction	AEGLLRY
3.	A female child of a parent	ADEGHRTU
4.	Cut in a person's body made by a surgeon using a scalpel	CIIINNOS
5.	Surgical intervention	AEINOOPRT
6.	Study of the process of ageing and the diseases of old people	EGGLNOOORTY
7.	Becoming worse after seeming to get better	AEELPRS
8.	Equipment used in a laboratory or hospital	AAAPPRSTU
9.	Give instructions for a person to receive a specific dosage of a drug	BCEEIPRRS
10.	Place where sick or injured people are looked after	AHLIOPST
11.	Physical or mental activity	CEEEIRSX
12.	The ability of a person not to get a disease	ACEEINRSST

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

Mystery word: a person specially trained to operate a machine to take X-ray photographs

Parts of the body crossword 1

All the answers in this crossword are parts of the body.



ACROSS

- 1. Joins the femur and the tibia (4)
- 2. The organ into which food passes after being swallowed and where the process of digestion continues (7)
- 6. The first part of the small intestine (8)
- 8. Hinged joint in the arm (5)
- 10. It grows on your head (4)
- 11. The upper chambers of 18 across (5)
- 12. Breathing organs (5)
- 15. They carry blood to 11 across (5)
- 17. Part of the body with which a person sees (3)
- 18. The organ which moves blood around your body (5)
- 21. Cell in the nervous system which transmits impulses (6)
- 22. An organ which secretes substances which act elsewhere in the body (5)
- 24. A white oily substance in the body, which stores energy and protects the body against cold (3)
- 25. Tissue which forms the outside surface of the body (4)
- 26. Type of nerve ending or cell (8)
- 27. For hearing with (3)

DOWN

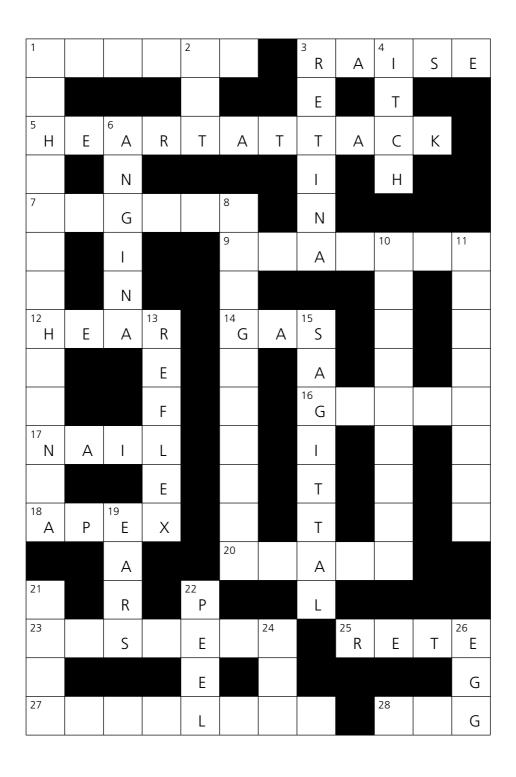
1.

- It cleans your blood (6)
- 3. Main part of the body, without the arms, legs and head (5)
- 4. A major artery (5)
- 5. Connected to 8 across, funnily enough (7)
- 7. Eye socket (5)
- 9. Narrow part of the body below the chest and above the buttocks (5)
- 12. The major detoxicating organ (5)
- 13. Hard growth which forms on the top surface at the end of each finger and toe (4)
- 14. Cheekbone (6)
- 16. Protects the brain (5)
- 18. At the end of your arm (4)
- 19. The throat or neck, major artery (7)
- 20. The back of each joint on a person's hand (7)
- 23. Bundle of fibres which take impulses from one part of the body to another (5)
- 24. End part of the leg on which a person stands (4)

Communicative crossword 1 sheet A

This crossword is not complete: you have only half the words. The other half are on sheet B. Check that you know the words in your crossword. Then work with a partner who has sheet B to complete the two crosswords. Follow these three rules:

- 1. Speak only in English.
- 2. Don't say the word in the crossword.
- 3. Don't show your crossword to your partner.



Communicative crossword 1 sheet B

This crossword is not complete: you have only half the words. The other half are on sheet A. Check that you know the words in your crossword. Then work with a partner who has sheet A to complete the two crosswords. Follow these three rules:

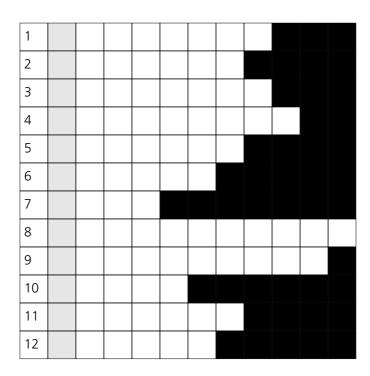
- 1. Speak only in English.
- 2. Don't say the word in the crossword.
- 3. Don't show your crossword to your partner.

1 S	L	Е	E	2 P	Υ		3		4		
С				А							
5 H		6		Т							
1											
7 Z	Y	G	0	Т	8 E						
0					9 P	L	А	С	10 E	В	11 O
Р					1				Υ		V
12 H			13		14 G		15		E		Е
R					L				L		R
Е					0		16 G	L	А	N	D
17 N					Т				S		0
I					Т				Н		S
18 A		19			ı				Е		Е
					20 S	С	А	N	S		
21 H				22							
23 	N	S	Р	E	С	24 T		25			26
Р						I					
27 S	Н	0	U	L	D	Е	R		28 L	Е	G

Anagrams 2

Solve the anagrams by reading the clues and putting the letters in order to form words. Write your answers in the grid to find the mystery word spelled by their initial letters.

1.	Main part of the brain	BCEEMRRU
2.	Value calculated by adding together several quantities and dividing the total by the number of quantities	AAEEGRV
3.	Effect produced by a stimulus	ACEINORT
4.	Way of acting	ABEHIORUV
5	To notice or to see something and understand it	BEEORSV
6.	Spasm causing sudden inhalation followed by closure of the glottis which makes a characteristic sound	CCHIPU
7.	Reflex action when tired or sleepy	ANWY
8.	To become worse	ADEEIORRTTE
9.	Reducing strain or stress	AAEILNORTX
10.	Not asleep	AAEKW
11.	Operating room	AEEHRTT
12.	Causing vomiting	TMECEI



Mystery word: found in sugar and starch, and provides the body with energy

Word search

Find the 28 medical terms and expressions hidden in the letters below; 14 read across and 14 read down. The first word has been found for you as an example. The clues listed beneath will help you to find all of the words.

P	Α	T	Н	0	L	0	G	+	S	Ŧ	W
Е	\cup	Ν	0	S	Т	R	ı	L	Р	R	0
N	L	S	С	R	E	Е	Ν	1	0	I	М
D	ı	М	М	U	Ν	Е	А	V	Т	С	В
Е	Ν	В	С	S	L	ı	D	Е	W	Е	Т
М	ı	L	В	Е	D	S	0	R	Е	Р	Н
I	C	0	R	Т	ı	S	0	N	Е	S	Е
С	Н	С	Р	А	Ν	C	R	Е	Α	S	R
D	0	U	Е	Т	Α	Р	Α	Α	G	Т	N
F	S	М	L	ı	S	Р	S	S	Е	А	I
Α	Т	0	N	Υ	А	G	Н	Е	Н	K	Α
I	R	0	N	Α	L	L	E	R	G	E	N

- 1. Number of years that a person has lived
- 2. Substance which produces hypersensitivity
- 3. Lack of tone or tension in the muscles
- 4. Decubitus ulcer
- 5. Small hospital or department in a large hospital which deals only with walking patients or which specialises in the treatment of certain conditions
- 6. Hormone secreted in small quantities by the adrenal cortex
- 7. To make pain or worry less
- 8. Referring to any disease which is very common in certain places
- 9. Condition where an organ bulges through a hole or weakness in the wall which surrounds it
- 10. Person or animal on which a parasite lives
- 11. Protected against an infection or allergic disease
- 12. Chemical element essential to the body, found in liver, eggs, etc.
- 13. Large gland in the upper part of the abdomen
- 14. Speech defect where the patient has difficulty in pronouncing 's' sounds and replaces them with 'th'
- 15. Doctor who takes the place of another doctor for a time
- 16. Referring to the nose
- 17. One of the two passages in the nose through which air is breathed in or out
- 18. Gland which lies across the back of the body between kidneys
- 19. Doctor who examines dead bodies to find out the cause of death
- 20. Mass of small spots which stays on the skin for a period of time, and then disappears
- 21. Light wall, sometimes with a curtain, which can be moved about and put round a bed to shield the patient
- 22. Piece of glass, on which a tissue sample is placed, to be examined under a microscope
- 23. Small round mark or pimple
- 24. To swallow a medicine
- 25. To remove or drain liquid from part of the body
- 26. Muscle formed of three parts, which are joined to form one tendon
- 27. Not dry
- 28. Uterus

Communicative crossword 2 sheet A

This crossword is not complete: you have only half the words. The other half are on sheet B. Check that you know the words in your crossword. Then work with a partner who has sheet B to complete the two crosswords. Follow these three rules:

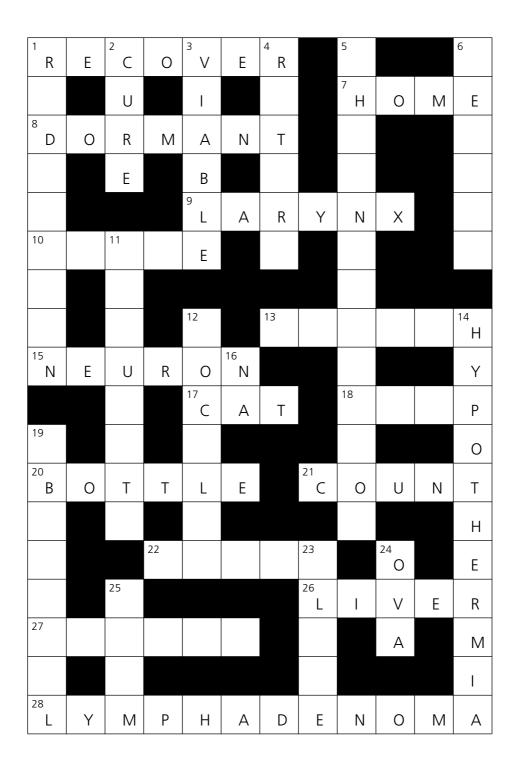
- 1. Speak only in English.
- 2. Don't say the word in the crossword.
- 3. Don't show your crossword to your partner.

1 R		2		3		4 R		5 C			6 T
Е						E		7 H			Е
8 D						Т		А			N
U						I		I			D
С				9		R		N			0
10 T	R	11 A	U	E		E		R			N
1		М						Е			
0		Р		12 C		13 H	Е	А	L	Т	14 H
15 N		U		0	16			С			
		Т		17 C				18 T	R	ı	Р
19 A		А		Н				ı			
20 B		Т		L			21	0			
N		Е		Е				N			
0			22 M	А	N	I	23 C		24		
R		25 S					26 L				
27 M	А	L	I	G	N		0				
А		I					S				
28 L		М					Е				

Communicative crossword 2 sheet B

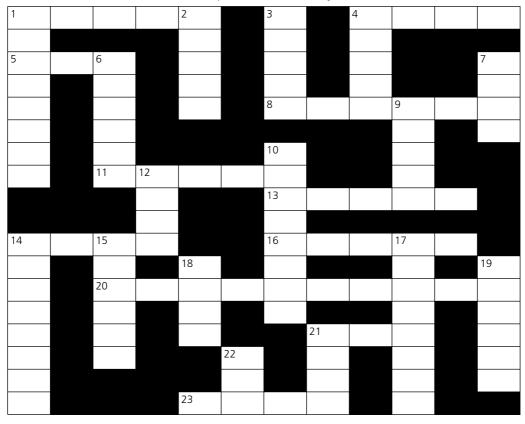
This crossword is not complete: you have only half the words. The other half are on sheet A. Check that you know the words in your crossword. Then work with a partner who has sheet A to complete the two crosswords. Follow these three rules:

- 1. Speak only in English.
- 2. Don't say the word in the crossword.
- 3. Don't show your crossword to your partner.



Parts of the body crossword 2

All the answers to this crossword are parts of the body.



ACROSS

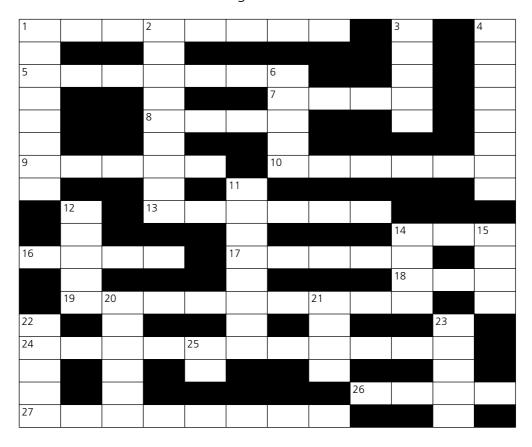
- 1. Ligament (5)
- 4. One of the calcified pieces of connective tissue which make 1 down (4)
- 5. Organ used for hearing (3)
- 8. Sight, hearing, smell, taste and touch (6)
- 11. It connects your foot to your leg (5)
- 13. Thorax (5)
- 14. Other side to the front (4)
- 16. Egg-producing organ (5)
- 20. Clavicle (10)
- 21. One of twenty-four inside 13 across
- 23. Plural of foot (4)

DOWN

- 1. All the bones which make up a body (8)
- 2. Joint between the hand and the forearm (5)
- 3. Branch of a nerve, artery or vein (5)
- 4. Encephalon (5)
- 6. Inside layer of the eye which is sensitive to light (6)
- 7. In the middle of your face (4)
- 9. Cavity inside the body, including the cavities inside the head behind the cheekbone, forehead and nose (5)
- 10. Main muscle in 13 across (8)
- 12. Part of the body which joins the head to the body (4)
- 14. Air passage from the trachea to the lungs(8)
- 15. Human tail, at the end of the backbone (6)
- 17. One of two muscles in the top part of the back which moves the shoulder blades (8)
- 18. Soft, fat flesh (4)
- 19. Wall between two parts of an organ (6)
- 21. Radix, point from which a limb grows (4)
- 22. One of ten found on 23 across (3)

Gap fill crossword

Complete the crossword with the missing words from the sentences.

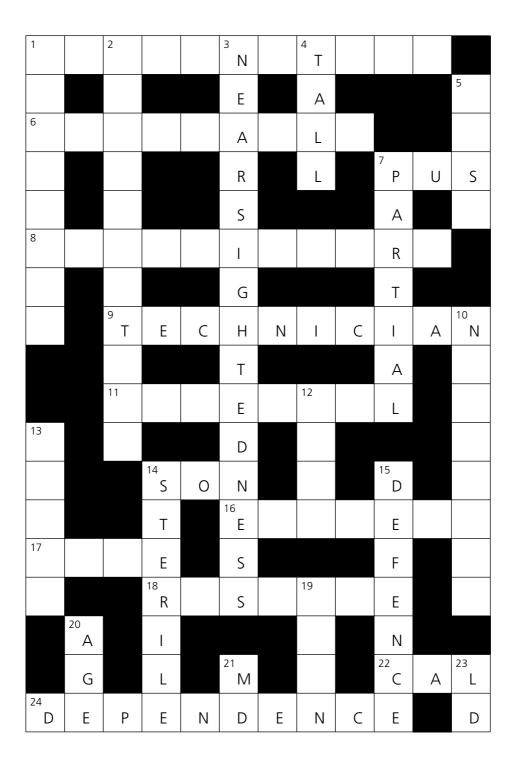


ACRO	OSS	DOW	N
1.	He a new type of catheter. (8)	1	The catheter is into the passage.
5.	Blood were taken from all the staff		(8)
	in the hospital. (7)	2.	How can you afford this
7.	There is a of names in alphabetical		treatment? (9)
	order. (4)	3.	She gave to twins. (5)
8.	She must have a cold - her is	4.	The surgeon was able to move the organ
	running. (4)		back to its position. (8)
9.	We will the operating theatre with	6.	The doctor put her to with a
	the latest scanning devices. (5)		powerful narcotic. (5)
10.	Fear of snakes is a common (6)	11.	The patient suffers from an allergic
13.	Sugar is a source of (6)		to oranges. (8)
14.	The doctor the patient's broken	12.	Her rate was very irregular. (5)
	arm. (3)	14.	The lining of the uterus is during
16.	When she cut her finger it (4)		menstruation. (4)
17.	He breathed in the smoke from the fire	15.	When you add the reagent, the solution
	and it made him (5)		will blue. (4).
18.	He went to see an specialist about	20.	We have out the extent of the
	his deafness. (3)		tumour. (6)
19.	Anorexic patients may become and	21.	The drug begins acting after a very short
	may need hospitalisation. (9)		(4)
24.	Can I make an to see Dr Jones?	22.	There were two hundred of
	(11)		cholera in the recent outbreak. (5)
26.	The box is so heavy she can't it off	23.	The clinic has a of 100. (5)
	the floor. (4)	25.	The is the ratio of a person's
27.	He became hysterical and had to be put		mental age, given by an intelligence test,
	under . (8)		to the person's actual age. (2)

Communicative crossword 3 sheet A

This crossword is not complete: you have only half the words. The other half are on sheet B. Check that you know the words in your crossword. Then work with a partner who has sheet B to complete the two crosswords. Follow these three rules:

- 1. Speak only in English.
- 2. Don't say the word in the crossword.
- 3. Don't show your crossword to your partner.



Communicative crossword 3 sheet B

This crossword is not complete: you have only half the words. The other half are on sheet A. Check that you know the words in your crossword. Then work with a partner who has sheet A to complete the two crosswords. Follow these three rules:

- 1. Speak only in English.
- 2. Don't say the word in the crossword.
- 3. Don't show your crossword to your partner.

1 E	Х	2 A	М	ı	3 N	А	4 T	ı	0	N	
Р		N									5 H
6 	N	С	U	R	А	В	L	Е			0
L		Υ							7		S
Е		L									Т
8 P	R	0	Р	R	I	Е	T	А	R	Υ	
S		S									
Υ		9 T									10 N
		0									А
		11 M	А	Т	Е	R	12 N	А	L		R
13 W		А					0				С
R			14				S		15		0
1					16 E	L	E	М	Е	N	Т
17 S	I	Т	Е								I
Т			18 R	E	S	0	19 L	V	Е		С
	20						0				
					21				22		23
24							N				

How many of these questions can you answer?

- 1. Name four sources of Vitamin D.
- 2. Complete the following sentence. "In human anatomy, the hand has a dorsal and a palmar surface, and the foot a dorsal and a _____ surface."
- 3. What is the difference between myopia and hypermetropia?
- 4. Which of the following substances are poisonous?
 - arsenic
 - cyanide
 - fructose
 - alucose
 - polyunsaturated fat
 - starch
 - strychnine
- 5. Fill the gaps in the sentence with the correct numbers.

"Permanent teeth,	otherwise known	as adult teeth, are formed of eight incisors, _	
canines,	premolars and	molars."	

- 6. What is the term for an organisation responsible for overseeing the provision of primary healthcare and the commissioning of secondary care in a district. Key members include GPs, community nurses, social services and lay members?
- 7. If a patient is living at home and going to a hospital for treatment, is he/she classed as an "inpatient" or an "outpatient"?
- 8. What is the child's term for the stomach or abdomen?
- 9. Are the following statements true or false?
 - [T / F] Blood is formed of red and white corpuscles, platelets and plasma.
 - [T / F] The liver maintains the circulation of the blood around the body by its pumping action.
 - [T / F] A mastectomy is a surgical operation to deliver a baby by cutting through the abdominal wall into the uterus.
- 10. What is the normal average human body temperature?
- 11. To which part of the body do words beginning with "gastr-" refer?
- 12. Formerly, burns were classified by degrees (first-degree burn and second-degree burn). The modern classification is into two categories. What are these categories?

Extension. Work with a partner and write a medical knowledge quiz. Make sure you know the answers. Then ask the questions to another pair of students in the class.

Vocabulary Record Sheet

WORD	CLASS	NOTES (Translation, definition, example, etc.)
This page can be pho		

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Word-building

Word association 1: missing links (p. 1)

- 1. body
- 2. pain
- 3. bone
- muscle
- 5. eye
- 6. cell

Word formation: nouns (p. 2)

Exercise 1.

diagnosis
 examination
 prescription
 suffering
 operation
 cure
 recovery
 analysis
 infection
 carrier
 replacement
 degeneration
 referral
 paralysis
 obstruction

Exercise 2.

- My diagnosis was that the patient had a heart condition.
- 2. I made a full examination of the patient.
- 3. I wrote a prescription for a course of antibiotics.
- 4. He experienced very little suffering.
- 5. The operation was performed immediately.
- 6. There is no cure for this disease.
- 7. He has made a full recovery.
- 8. The lab made an analysis of the blood sample.
- 9. We found an infection in the tissue.
- 10. Ten per cent of the population are thought to be carriers of the bacteria.
- 11. The patient was given a hip replacement.
- 12. There has been a degeneration in his condition.
- 13. The patient was given a referral to a specialist.
- 14. He suffered paralysis of the arm after the stroke.
- 15. The blood clot formed an obstruction in the artery.

Two-word expressions (p. 3)

heart attack
 general anaesthetic
 bone marrow
 surgical intervention
 primary tooth
 plastic surgery
 brain death
 bedside manner
 allergic reaction
 clinical trial
 malignant tumour
 general practitioner
 biological clock
 digestive system
 balanced diet

Plural formation (p. 4)

	'1 '		
1. strata	2. feet 3	3. fibulae	4. glomeruli
5. abscesses	6. joints	7. bullae	8. testes
9. septa 1	0. oesophagi	11. diagnoses	12. humeri
13. syringes	14. acetabula	15. larvae	16. chordae
17. varices	18. fungi	19. gangli	a 20. villi
21. atria	22. pontes	23. ova	24. bouts
25. cortices	or cortexes		

Word formation: adjectives (p. 5)

- The surgeons operated to repair the patient's defective heart valve.
- 2. His diet is calcium-deficient.
- 3. She is physically *dependent* on amphetamines.
- 4. The doctor noted an excessive amount of bile in the patient's blood.
- 5. A *hypoglycaemic* attack can be prevented by eating glucose or a lump of sugar when feeling faint
- 6. The vaccine should make you *immune* to tuberculosis.
- 7. They have periods when they are completely *inactive*.
- 8. His foot is so *painful* that he can hardly walk.
- 9. I suffered *spinal* injuries in the crash.
- 10. She complained of *stiff* joints.

Word association 2: partnerships (p. 6)

Exercise 1.

- 1. administer a drug
- 2. analyse a sample
- 3. arrange an appointment
- 4. burp a baby
- 5. catch a cold
- 6. detect an improvement
- 7. discontinue the treatment
- 8. ease the pain
- 9. resist some infections
- 10. prescribe antibiotics

Exercise 2.

- 1. The doctor will administer a drug to the patient.
- 2. She was prescribed antibiotics.
- 3. As soon as the patient reported severe side-effects, the doctor *discontinued the treatment*.
- 4. I've *caught a cold* from one of my colleagues at work.
- 5. The laboratory *analysed a sample* of the food and found traces of bacteria.
- 6. A healthy body can *resist some infections*.
- 7. I would like to *arrange an appointment* with the dental hygienist for 10.00am tomorrow.
- 8. She had an injection to ease the pain in her leg.
- 9. The health visitor advised the new parents to burp the baby after feeding.
- 10. The nurses *detected an improvement* in the patient's condition.

Opposites 1: prefixes (p. 7)

Exercise 1.

il- ir

illegal
 irreducible
 irregular

im-

1. immovable 2. impalpable

- 1. unconscious 2. uncontrollable 3. undigested
- 4. unfit

in-

3. impure

- 5. unhealthy 6. unhygienic 7. unqualified 1. inactive 8. unstable 2. inadequate 3. incoherent 9. unwell
- 4. incompatible 5. incomplete
- 6. independent
- 7. indirect
- 8. infertile
- 9. inoperable 10. insanitary
- 11. insoluble

Exercise 2.

- 1. unconscious 2. unwell 3. incapable 4. unhealthy 5. irregular 6. unfit 7. unpasteurised 8. insanitary
- 9. unstable 10. uncontrollable

Word formation: verbs (p. 8)

Exercise 1.

1. abuse 2. admit 3. bandage 4. blood 5. breathe 6. coagulate 7. consult 8. convalesce 11. immunise 9. fertilise 12. implant 10. identify 14. manage 15. occur 16. perspire 13. macerate 17. prepare 18. provide 19. reabsorb 20. regenerate 21. register 22. regurgitate 23. rehabilitate 25. resuscitate 24. reproduce 26. sedate 27. stammer 28. stitch 29. suppress 30. sweat

Word association 3: mind maps (p. 9)

Exercise 1.

2. theatre nurse 3. A&E 1. operating theatre department 4. major surgery 5. surgeon 6. local 7. consultant 8. heart surgery 9. scrub anaesthetic 10. surgery

Parts of Speech

Nouns (p. 10)

1. allergy 2. paroxysms 3. overdose 4. surgery 5. course 6. recurrence 7. tendency 8. examination 9. injection 10. exercise 11. ambulance 12. intake 13. biopsy 14. consent 15. progress 16. treatment 17. excess 18. accident 19. vaccination 20. rash

Adjectives 1 (p. 11)

2. poisonous 3. compatible 4. inoperable 5. lethal 6. inborn 7. incipient 8. inactive 9. severe 11. motionless 12. hygienic 10. confused 13. predisposed 14. aware 15. delicate 16. insanitary 17. depressed 18. regular 19. infectious 20. hoarse

Adjectives 2 (p. 12)

1. lethal 2. critical 3. persistent 4. subjective 5. infirm 6. inflamed 7. mobile 8. painful 9. viable 10. deaf 11. premature 12. excessive 14. bedridden 15. latent 16. obsessive 18. severed 19. depressed 20. harmful

Verbs 1 (p. 13)

a) diagnose b) treat c) cure d) endanger e) prescribe f) specialise g) suffer h) operate i) vaccinate j) soothe k) dress l) suppress

Verbs 2 (p. 14)

a) transfer b) harm d) perforate c) penetrate e) probe f) save g) limp h) admit i) prevent respond k) faint l) perform

Verbs: past tense ~ regular verbs (p. 15)

1. received 2. strained 3. recovered 4. fainted 5. required 6. suffered 7. adapted 8. developed 9. fractured 10. reacted 11. weighed 12. prolonged 13. aggravated 14. examined 15. trembled

Verbs: mixed tenses (p. 16)

2. overcame 3. rebuilt 4. undergone 1. visit 5. froze 6. bruised 7. measures 8. expelled 10. heal 11. burnt 12. controls 13. amputated 14. bitten 15. progressing

Phrasal verbs (p. 17)

2. looking after 3. picked up 1. got over 5. passed out 6. broke down 7. takes after 9. bringing up 10. got around 11. give 12. knocked out 13. propped up 14. go down 15. coughing up

Verbs: active/passive (p. 18)

- A rise in the patient's pulse was noticed by the
- He is being allowed by the consultant to watch 2. the operation.
- 3. The tablets are sold by all chemists.
- 4. Appendicitis was diagnosed by the doctor.

- 5. The injured person was comforted by the paramedics until the ambulance arrived.
- 6. The twins were delivered by the midwife.
- 7. An excess of hormones was being produced by the gland.
- 8. He was very well looked after in hospital.
- 9. The tissue was examined under the microscope.
- 10. I was given an unpleasant mixture to drink by the doctor.
- 11. The lotion cannot be taken orally.
- 12. The workers were poisoned by toxic fumes.
- 13. A rise in cases of whooping cough is being predicted by doctors.
- 14. The body's natural instinct to reject the transplanted tissue is suppressed by the drug.

Adverbs (p. 19)

- 1. The bandage was *loosely* tied around her wrist.
- 2. *Mentally*, she is very advanced for her age.
- 3. If the patient sweats *excessively*, it may be necessary to cool his body with cold compresses.
- 4. The tumour is *awkwardly* placed and not easy to reach.
- 5. She manages all her patients very *efficiently*.
- 6. The relief team *urgently* requires more medical supplies.
- 7. This is a *mildly* antiseptic solution.
- 8. *Physically*, he is very weak, but his mind is still alert.
- 9. He became ill *immediately* after he came back from holiday.
- 10. The herb can be used *medicinally*.
- 11. He has been working as a doctor only for a *fairly* short time.
- 12. Her breathing was severely affected.

Prepositions (p. 20)

- 1. The hospital has installed new apparatus through the physiotherapy department. *ir*
- 2. Her lips were cracked of the cold. from
- 3. The boy's little toe was crushed the door. by
- 4. The tissue was examined on ^ the microscope. under
- 5. It is important that needles used at△ injections should be sterilised. *for*
- 6. He is recovering from a bout flu.
- 7. She was given $\frac{1}{100}$ a pain-killing injection.
- 8. Some types of wool can irritate to the skin.
- This report quotes the number of cases of cervical cancer from thousand patients tested. per
- 10. The doctor put the patient to sleep within a strong narcotic.
- 11. She burnt her hand at he hot frying pan. or
- 12. We have no spare beds on the hospital at the moment. *in*

- 13. He will have an operation to remove of an ingrowing toenail.
- 14. Please ensure that the patient takes of his medicine.

Pronunciation

Word stress 1 (p. 21)

Group A: hospital regular exercise alcohol minimum haemorrhage operate theatre serious painkillers positive medical history

Group B: admitted improvement condition develop injection equipment allergic reaction prescription infection opinion

Group C: recommend reassure incomplete

Word stress 2 (p. 22)

Exercise 1.

1. complication	2. paralysis	3. emergency
4. respirator	5. operation	6. anaesthetic
7. disposable	8. intolerance	9. circulation
10. coordinate	11. experiment	12. malignancy
13. responsible	14. Analysis	15. compatible
16. saturated	17. demonstrated	18. dehydration
19. communicate	20. Penicillin	

Exercise 2.

	A ■ □ □ □	B □ ■ □ □	C
	A ■ U U U		
anaesthetic			Х
analysis		Х	
circulation			Х
communicate		Х	
compatible		Х	
complication			х
coordinate		Х	
dehydration			Х
demonstrated	Х		
disposable		Х	
emergency		Х	
experiment		Х	
intolerance		Х	
malignancy		Х	
operation			х
paralysis		Х	
penicillin			Х
respirator	Х		
responsible		Х	
saturated	Х		

Present simple (p. 23)

Group A: coughs helps panics beats sleepswakes counteracts operates regulatesGroup B: breathes examines recommends

prescribes relieves suffers controls cures kills

Group C: sneezes reduces catches rises analyses
diagnoses relaxes releases increases

Past tense (p. 24)

Group A: reduced coughed replaced mixed dressed increased noticed dropped

Group B: diagnosed improved sneezed prescribed cured sterilised probed

Group C: vaccinated consulted recommended prevented operated disinfected treated preceded

Vocabulary in Context

Good advice (p. 25)

1. g)	8. f)
2. k)	9. n)
3. d)	10. b)
4. e)	11. a)
5. l)	12. i)
6. j)	13. c)
7. h)	14. m)

Multiple meanings (p. 26)

1. patient 2. fit 3. focus 4. notice 5. turn 6. light 7. cold 8. focus 9. turn 10. patient 11. notice 12. fit 13. turn 14. fit 15. light 16. focus 17. fit 18. cold 19. light

Odd one out (p. 27)

- 1. bleeding; the others are words which describe types of pain
- 2. liver; you have two of all the others
- 3. forearm; the others are all joints
- 4. face; the others are all specifically sense organs
- 5. patient; the others are all jobs
- 6. bandage; the others are all instruments
- 7. supination; the others are all connected to breathing
- 8. eyelids; the others are all eye conditions
- 9. relapse; the others all mean to return to normal after an illness
- 10. palm; the others are all parts of the eye
- 11. vertebral column; the others are all part of the
- aluminium; the others are all normally found in the body
- 13. wound; the others refer principally to damage to

bones

- 14. metacarpal bone; the others are all in the skull
- 15. pancreas; the others deal with blood
- 16. taste; the others are all physical actions
- 17. hernia; the others relate to the liver
- 18. diabetes; the others are all part of the skin

Body parts - categories (p. 28)

abdomen - torso knuckle - hand Achilles tendon - foot lip - head ankle - leg (or foot) nail - hand (or foot) buttock - torso navel - torso neck - torso calf - leg chest - torso nipple - torso chin - head nose - head ear - head palm - hand elbow - arm rib - torso eye - head scalp - head shoulder - torso (or arm) eyebrow - head

eyelash - head sole - foot
eyelid - head temple - head
finger - hand thigh - leg
forearm - arm thumb - hand
forehead - head toe - foot
gum - head tongue - head

hip - torso (or leg) tooth - head knee - leg wrist - arm (or hand)

Opposites 2 (p. 29)

Exercise 1.

front
 chronic
 alive
 deteriorate
 ill
 closed
 minor
 increase
 rough
 malignant

Exercise 2.

1. acute 2. increase 3. improve 4. back 5. rough 6. malignant 7. open 8. dead 9. healthy 10. major

Abbreviations (p. 30)

- 1. A & E: Accident & Emergency
- 2. AIDS: Acquired Immunodeficiency Syndrome
- 3. BMR: Basal Metabolic Rate
- 4. CAT: Computerised Axial Tomography
- 5. CHD: Coronary Heart Disease
- 6. D & V: Diarrhoea & Vomiting
- 7. DOA: Dead On Arrival
- 8. GP: General Practitioner
- 9. HAV: Hepatitis A Virus
- 10. HIV: Human Immunodeficiency Virus
- 11. MI: Motor Neurone Disease
- 12. OTC: Over The Counter
- 13. PM: Post Mortem
- 14. PMA: Progressive Muscular Atrophy
- 15. PMT: Premenstrual Tension
- 16. RQ: Respiratory Quotient
- 17. RSI: Repetitive Strain Injury

18.	SAD: Seasonal Affective Disorder
19.	SIDS: Sudden Infant Death Syndrome
20.	STI: Sexually Transmitted Infection
21.	TB: Tuberculosis
22.	TBI: Total Body Irradiation
23.	UV: Ultraviolet
24.	VDH: Valvular Disease of the Heart
25.	WHO: World Health Organization

Symptoms & common illnesses 1 (p. 31)

 influenza 	rubella	coryza	varicella
5. rubeola	6. infectious	parotitis	7. pertussis
8 allergic rhini	tis		

Symptoms & common illnesses 2 (p. 32)

Exercise 1.

- 1. Chickenpox is the same as varicella
- 2. A cold is the same as coryza
- 3. The flu is the same as influenza
- 4. German measles is the same as rubella
- 5. Hay fever is the same as allergic rhinitis
- 6. Measles is the same as rubeola
- 7. Mumps is the same as infectious parotitis
- 8. Whooping cough is the same as pertussis

Exercise 2.

hay fever
 German measles
 whooping cough
 flu
 mumps
 chickenpox

Diagnosis (p. 33)

epilepsy
 gangrene
 cataracts
 Parkinson's
 stuberculosis
 cystic fibrosis
 cirrhosis
 diphtheria
 cerebral palsy
 gastroenteritis

How it works (p.34)

1. d)	10. h)
2. k)	11. p)
3. g)	12. q)
4. m)	13. c)
5. r)	14. o)
6. a)	15. l)
7. b)	16. j)
8. f)	17. i)
9. n)	18. e)

Instruments and equipment (p. 35)

1. wheelchair	2. scalpe	el 3. probe	4. forceps
5. curette	6. pipette	7. tourniquet	8. hook
9. drain	10. gag	11. syringe	12. catheter
13. bandage	14. sling	15. stretcher	16. splint
17 stethoscor	ne 18 ther	mometer	

Chemistry (p. 36)

- 1. Na, sodium, (e) the basic substance in salt
- 2. Ca, calcium, (p) metallic element which is the major component of bones and teeth
- 3. Pb, lead, (l) heavy soft metallic element which is poisonous in compounds
- 4. Ti, titanium, (n) light metallic element which does not corrode
- 5. Ba, barium, (d) used as a contrast when taking X-ray photographs of soft tissue
- 6. Zn, zinc, (s) white metallic trace element
- 7. Fe, iron, (j) an essential part of the red pigment in blood cells, found in liver and eggs
- 8. Co, cobalt, (f) metallic element which is the basis of a radioactive isotope used to treat cancer
- 9. Cl, chlorine, (q) powerful greenish gas, used to sterilise water
- 10. He, helium, (m) very light gas used in combination with oxygen, especially to relieve asthma or sickness caused by decompression
- 11. S, sulphur, (t) yellow non-metallic element found in some amino acids
- 12. Au, gold, (r) soft yellow-coloured precious metal, used as a compound in various drugs, and sometimes as a filling for teeth
- 13. O, oxygen, (h) colourless gas which is present in air and essential to human life
- 14. H, hydrogen, (k) gas which combines with oxygen to form water
- 15. HCI, hydrochloric acid, (a) acid found in the gastric juices which helps to break apart the food
- 16. N, nitrogen, (o) gas which is the main component of air and an essential part of protein
- 17. HCN, hydrocyanic acid, (b) acid which forms cyanide
- 18. C, carbon, (i) one of the common non-metallic elements which is an essential component of living matter and organic chemical compounds
- N₂O, nitrous oxide, (g) colourless gas with a sweet smell, used in combination with other gases as an anaesthetic in dentistry and surgery
- 20. C₁₀H₁₄N₂, nicotine, (c) main alkaloid substance found in tobacco

Puzzles & Quizzes

Anagrams 1 (p. 37)

- 1. **R**espiration
- 2. **A**llergy
- 3. **D**aughter
- 4. Incision
- 5. **O**peration
- 6. **G**erontology
- 7. **R**elapse
- 8. **A**pparatus
- 9. **P**rescribe
- 10. **H**ospital
- 11. **E**xercise
- 12. **R**esistance

Parts of the body crossword 1 (p. 38)

ares or the body crossword r (pr. 50)											
1 K	N	Е	Е		2 S	3 T	0	М	4 A	С	5 H
1						R			0		U
6 D	U	7 O	D	Е	N	U	М		R		М
N		R				N			T		Е
8 E	L	В	0	9 W		К		10 H	А	1	R
Υ		ı		А							U
	11 A	Т	R	1	А		12 L	U	13 N	G	S
				S			1		А		
		14 Z		Т			15 V	Е	ı	N	16 S
	17 E	Υ	Е				Е		L		K
		G		18 H	Е	А	R	Т			U
19 J		0		А					20 K		L
U		М		21 N	Е	U	R	0	N		L
22 G	L	А	23 N	D					U		
U			Е		24 F	А	Т		С		
L			R		0			25 S	K	ı	N
А			V		0				L		
26 R	Е	С	Е	Р	Т	0	R		27 E	А	R

Anagrams 2 (p. 41)

- 1. **C**erebrum
- 2. **A**verage
- 3. **R**eaction
- 4. **B**ehaviour
- 5. **O**bserve
- 6. **H**iccup
- 7. **Y**awn
- 8. **D**eteriorate
- 9. **R**elaxation
- 10. **A**wake
- 11. **T**heatre
- 12. **E**metic

Word search (p.42)

P	Α	Т	Н	0	L	0	G	-	S	Ŧ	W
E	Ų	Ŋ	0	_5_	Т	R	-	+	Р	R	φ
N	L	S	C	R	Е	E	-N	I	0	I	М
Þ	+	М	М	U	N	-E	А	V	Т	С	В
E	N	В	С	5	L	-	D	E	₩	E	Ŧ
M	I	Ļ	В	E	D	S	0	R	E	Р	Н
I	\leftarrow	0	R	T	-	_S	0	N	Æ	S	E
Ç	Η	¢	P	Α	N	\vdash	R	E	1	_5	R
D	0	Ψ	Е	T	A	P	A	A	G	T	N
F	S	М	Ł	-	S	P	S	S	Ė	А	ı
A	+	0	N	<u></u>	A	G	Н	E	Н	K	A
+	R	0	N	A	4	L	E	R	G	Е	H

Parts of the body crossword 2 (p. 45)

1 S	I	N	Е	2 W		3 R		4 B	0	N	Е
K				R		А		R			
5 E	А	6 R		1		М		А			7 N
L		Е		S		U		I			0
Е		Т		Т		8 S	Е	N	9 S	E	S
Т		1							1		Е
0		N				10 P			N		
N		11 A	12 N	K	L	Е			U		
			Е			13 C	Н	Е	S	Т	
			С			Т					
14 B	А	15 C	К			16 O	V	А	17 R	Υ	
R		0		18 F		R			Н		19 S
0		20 C	0	L	L	А	R	В	0	N	Е
N		С		А		L			М		Р
С		Υ		В			21 R	1	В		Т
Н		Х			22 T		0		0		U
U					0		0		_		М
S				23 F	Е	Е	Т		D		

Gap fill crossword (p. 46)

1 	N	V	2 E	N	Т	E	D		3 B		4 O
N			X						ı		R
5 S	А	М	Р	L	Е	6 S			R		ı
Е			E			7 L	1	S	Т		G
R			8 N	0	S	Е			Н		ı
Т			S			E					N
9 E	Q	U	ı	Р		10 P	Н	0	В	ı	А
D			V		11 R						L
	12 P		13 E	N	Е	R	G	Υ			
	U				А				14 S	Е	15 T
16 B	L	Е	D		17 C	0	U	G	Н		U
	S				Т				18 E	А	R
	19 E	20 M	А	С	ı	А	21 T	Е	D		N
22 C		А			0		1			23 S	
24 A	Р	Р	0	25 	N	Т	М	Е	N	Т	
S		Р		Q			Е			А	
Е		Е						26 L	I	F	Т
27 S	Е	D	А	Т	1	0	N			F	

Quiz (p. 49)

- 1. butter, egg yolk, fish liver oils, oily fish, yeast (Vitamin D is also produced in the skin when exposed to sunlight.)
- 2. plantar
- 3. Myopia is a condition where the patient can see clearly objects which are close, but not ones which are far away, whereas with hypermetropia, the patient sees more clearly objects which are a long way away, but cannot see objects which are close. (More common words for myopia are *shortsightedness* or *nearsightedness*. A more common word for hypermetropia is *longsightedness*.)
- 4. arsenic; cyanide; strychnine
- 5. four canines, eight premolars and twelve molars
- 6. primary care group
- 7. outpatient
- 8. tummy
- 9. True, False (The organ described here is the *heart*), False (The operation described here is a *caesarean*.)
- 10. about 37° Celsius or 98° Fahrenheit
- 11. stomach
- 12. deep; superficial