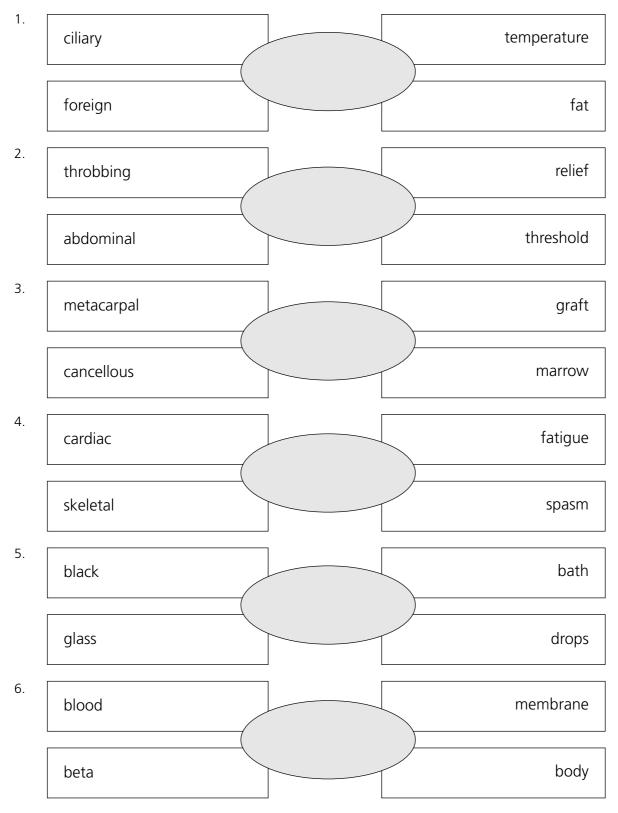
# Word association 1: missing links

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 <b>infected</b> .  We found an
My diagnosis was that the patient had a heart	
<ul><li>2. I examined the patient fully.</li><li>I made a full</li></ul>	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 <b>prescribed</b> a course of antibiotics.  I wrote a	11. We <b>replaced</b> the patient's hip.  The patient was given a hip
4. He <b>suffered</b> very little.  He experienced very little	12. His condition has <b>degenerated</b> .
5. We <b>operated</b> immediately.  The	13. The patient was <b>referred</b> to a specialist.  The patient was given a
6. This disease cannot be <b>cured</b> .  There is no	14. His arm was <b>paralysed</b> after the stroke.  He suffered
7. He has <b>recovered</b> fully.  He has made a full	15. The artery was <b>obstructed</b> by a blood clot.  The blood clot was forming an
8. The lab <b>analysed</b> 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>	<b>rug</b> 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

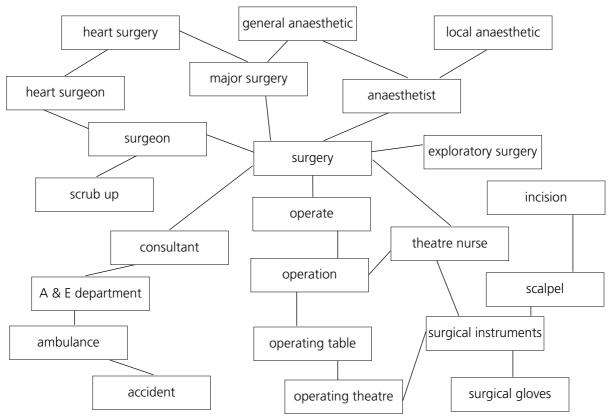
#### Exercise 2.

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 <del>safe</del> 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	tende	r 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 <del>admitted</del> 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 hu 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 awkward because of pain, stiffness or
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 somethin 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 bette 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 <del>visit</del>

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	<pre>prop up = to support a person, e.g. with pillows</pre>
	blood.	take after = to be like one or other parent
		take off = to remove something, especially clothes
		The state of the s

**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 <del>in</del> ^Tuesday.	on
3	unnecessary preposition	I'll telephone <del>to</del> 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.