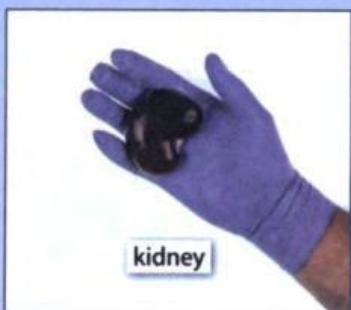


48 Medical advances

A revolutionary era in medical advances

In recent decades, we have seen radical changes in conventional medicine:

- 60 years ago, scanners did not exist. Diagnostic tools were restricted to basic X-ray machines.
- Children suffered from **infectious** diseases, for which there was no effective cure. Now vaccines have eradicated some of these illnesses and diseases.
- In the past, if you had a major **operation**, you would be **confined to bed** for weeks. Today, many operations use **procedures** requiring day **surgery** only.
- In the past, the **mortality rate** for patients with **organ** failure, such as heart, lung or **kidney** failure, could be 100%. Today, **transplants** enable many patients to **resume** a normal life.
- The **survival rate** for many cancers has improved considerably over the last forty years.
- **Vitamins** and **minerals** are necessary for good health. There are more **supplements** on the market now for people who do not get enough of certain vitamins or minerals from their normal diet.



GLOSSARY

revolutionary era	producing great changes revolution <i>n</i> a period of time that has a particular quality or character	be confined to bed / a wheelchair	have to stay in bed / a wheelchair
advance (in sth)	progress made in science, medicine, technology, etc.	procedure	a medical operation that may or may not require your body to be cut open
radical	new, different and likely to have a great effect	rate	the number of times sth happens within a particular period: survival rate , birth rate , mortality rate
conventional	usual or traditional; not new or different	organ	a part of the body that has a particular function e.g. the heart, the brain
diagnostic	used for finding out what physical or mental problem sb has diagnose <i>v</i> ; diagnosis <i>n</i>	transplant	an operation in which a damaged organ is replaced with one from a donor (= sb who gives part of their body, blood, etc.)
restrict	limit the size, number or amount of sth	enable sb/sth to do sth	transplant <i>v</i> make it possible for sb/sth to do sth
infectious	(of a disease / an illness) can easily be passed on to another person infection <i>n</i> ; infect <i>v</i>	resume formal	begin sth again after an interruption
cure	a medical treatment that makes a sick person well again cure <i>v</i>	vitamin	one of several substances in certain foods that help us grow and be healthy, e.g. vitamin C , vitamin D
vaccine	a substance which is put into the blood and protects the body from disease. The process of giving vaccine is vaccination .	mineral	a natural substance, such as coal, salt, etc. Some minerals are present in food and drink and important for good health.
eradicate <i>formal</i>	vaccinate <i>v</i> destroy or get rid of sth completely SYN wipe (sth) out	supplement	sth that is added to sth else. Vitamin supplements , usually taken in the form of tablets, add vitamins to your diet.

SPOTLIGHT *surgery*

Surgery is medical treatment in which your body is cut open so that a part can be removed or repaired. SYN **an operation**, **operate** *v*. The place where this happens is an **operating theatre**, and the person who does it is a **surgeon**. **surgical** *adj*

1 Is the pronunciation of the underlined letters the same or different? Write S or D.

Use the  to help you.

1 revolutionary <u>era</u>	4 vaccine <u>vaccinate</u>	7 <u>era</u> <u>enable</u>
2 vitamin <u>mineral</u>	5 <u>confined</u> <u>vaccine</u>	8 revolutionary <u>advances</u>
3 radical <u>diagnose</u>	6 <u>confined</u> <u>conventional</u>	9 <u>resume</u> <u>infectious</u>

2 Complete the table.

NOUN	VERB	ADJECTIVE
revolution	-
.....	restrict	-
surgery	-
vaccine,.....	-
diagnosis
.....	transplant	-
infection

3 Yes or No?

1 If a disease is eradicated, does it mean it has been restricted?	4 If you have a disease which is diagnosed, does it mean you are better?
2 Does an organ donor receive an organ from someone else?	5 Does it matter if your diet doesn't contain any vitamins?
3 Does a radical change mean a very big change?	6 Is conventional medicine new and different?
	7 If a disease is infectious, can you catch it?
	8 Does surgery involve an operation?

4 Complete the sentences.

- 1 Her injuries were serious, so they took her straight to the operating
- 2 There are prizes for the most important technological
- 3 Most people get the vitamins and minerals they need, but doctors recommend for some people if they lack certain things in their diet.
- 4 Many changes have taken place since the Victorian
- 5 I wanted to know the current survival for breast cancer.
- 6 The involves inserting a tube into the ear to reduce infection.
- 7 His life was saved thanks to an organ
- 8 Some foods contain a lot of vitamins and
- 9 There are some treatments available, but sadly no effective
- 10 Alongside conventional, other forms of treatment have become popular in recent years.

5 Complete the dialogues.

- 1 Polio has been, I believe. ~ Yes, it's been almost completely
- 2 In some areas, lung cancer treatment is to non-smoking patients only. ~ Yes, I think that may be true for patients needing an organ as well.
- 3 The government has a policy to the elderly against flu. ~ I know, but there's often a shortage of the appropriate when it's needed.
- 4 I don't like all these drugs some doctors give you. I don't trust medicine. ~ Really? But there have been some fantastic in drugs in recent decades.
- 5 Are hospitals much cleaner places than they were many years ago? ~ Yes. Better hygiene has greatly reduced the spread of
- 6 The surgeons had to on Jason; it was a difficult ~ Yes, he was to bed for ages. Fortunately he's now recovering.
- 7 My aunt is having a new procedure for her damaged hip. ~ I know. If it succeeds, she'll be able to walk again and a normal life.
- 8 Why did doctors fit the tube in Malcolm's throat? ~ I think it him to breath more easily.

 TEST YOURSELF