

48 Medical advances

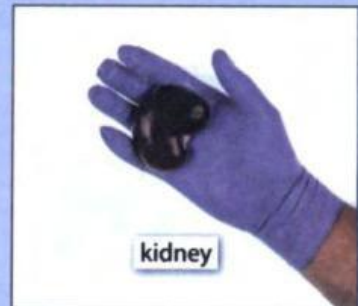
A revolutionary era in medical advances

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.



scanner



kidney

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 convention <i>n</i>	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 restriction <i>n</i>	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 . vaccinate <i>v</i>	mineral	a natural substance, such as coal, salt, etc. Some minerals are present in food and drink and important for good health.
eradicate formal	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 **app** to help you.

- | | | |
|-----------------------------|---|------------------------------|
| 1 revolutionary <u>gr</u> a | 4 vaccine vacc <u>i</u> nate | 7 <u>gr</u> a <u>en</u> able |
| 2 vitamin m <u>i</u> neral | 5 confined vaccine | 8 revolutionary advances |
| 3 radical d <u>i</u> agnose | 6 <u>co</u> n <u>fi</u> ned <u>co</u> n <u>ve</u> ntional | 9 resume infect <u>i</u> ous |

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.

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

5 Complete the dialogues.

- Polio has been, I believe. ~ Yes, it's been almost completely
- 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.
- 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.
- 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.
- Are hospitals much cleaner places than they were many years ago? ~ Yes. Better hygiene has greatly reduced the spread of
- The surgeons had to on Jason; it was a difficult
~ Yes, he was to bed for ages. Fortunately he's now recovering.
- 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.
- Why did doctors fit the tube in Malcolm's throat? ~ I think it him to breath more easily.

