

# 15 Drugs and antibiotics – Part 1

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

## Vocabulary 词汇

*Write each word three times. 把每个单词抄写三遍。*

| English            | 中文   | Write it 3 times (English) |       |       |
|--------------------|------|----------------------------|-------|-------|
| drug               | 药物   | _____                      | _____ | _____ |
| chemical reactions | 化学反应 | _____                      | _____ | _____ |
| Antibiotics        | 抗生素  | _____                      | _____ | _____ |
| bacterial          | 细菌   | _____                      | _____ | _____ |
| infections         | 感染   | _____                      | _____ | _____ |
| viruses            | 病毒   | _____                      | _____ | _____ |

## Recall

A **drug** 药物 is any substance taken into the body that changes its **chemical reactions** 化学反应. Many drugs are medicines.

## New ideas

Read these first, then do the Practice.

### ■ 1 Antibiotics

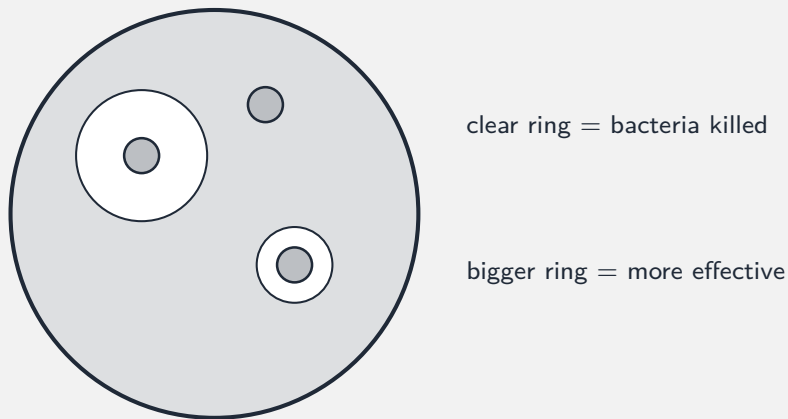
**Antibiotics** 抗生素 are drugs that treat **bacterial** 细菌 **infections** 感染—they kill bacteria or stop them growing. They have **no** effect on **viruses** 病毒, so they cannot cure a cold or the flu:

antibiotic +  bacterium → killed

antibiotic +  virus → no effect

## ■ 2 Testing antibiotics

To find which antibiotic works best, discs soaked in different antibiotics are placed on a plate covered with bacteria. A **clear ring** with no growth shows the antibiotic killed the bacteria:



**Watch out:** antibiotics kill *bacteria* only—they have **no** effect on **viruses**, so they cannot cure a cold or flu. On a test plate, a *bigger* clear ring means a *more* effective antibiotic.

## Practice

Try these in order.

15.1 What is a *drug*? [1]

15.2 What do antibiotics treat? [1]

**15.3** Why can't antibiotics cure a cold or the flu? [1]

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**15.4** On a test plate, what does a clear ring around a disc show? [1]

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**15.5** What does a bigger clear ring mean? [1]

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**15.6 Challenge.** A doctor refuses to give antibiotics for a patient's cold. Explain why this is the right decision. [2]