

(小学) 2020TEENS报刊课 第23期 (上)

顾小亮 南京师范大学苏州实验学校



Birth of a **vaccine**



南京师范大学苏州实验学校
亮

顾小



Good learning habits can make reading easy.



Watch carefully.



Read deeply.



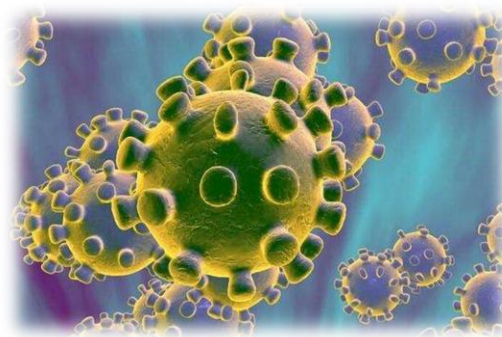
Think and write actively.

Let's learn

新型冠状病毒

novel coronavirus

/'nɒvl / / kə,rəʊnə'veɪərəs /



novel adj. 新奇的, 异常的
 n. 小说



Coronavirus Safety for Children
预防冠状病毒，孩子你可以这样做



Remember



Wear a mask in public places.



Cover your coughs and sneezes with tissue.



Wash your hands often in the right way.



Don't touch your eyes, mouth, nose and ears.

Birth of a vaccine

一株疫苗的诞生记 ★★★



关注微信，点击“听力资源”，按图扫码文章收听。

With the outbreak of the new **novel coronavirus** (新型冠状病毒), many people

are asking the question: When can we get a **vaccine** (疫苗)? In fact, making a

vaccine is not easy. It takes great **effort** and a lot of time.

1 Finding the virus strain 分离病毒株



First, scientists need to take some **virus strains** (病毒株) out of patients' bodies.

2 Making a vaccine 制作疫苗

Scientists use a few special ways to **weaken** the virus strain. This way, the virus cannot harm people when it **enters** (进入) their bodies later.

On Jan 24, Beijing found the first virus strain. Look, this is the novel coronavirus. In February, a vaccine was born and scientists began to test it on animals. Now more places around the country have got the virus strain from patients.



3 Animal test 动物实验

To make sure the vaccine is safe for people, scientists first give it to animals. If the animal is still OK after taking the vaccine, scientists go on to the next step.



How do vaccines protect people?

When a vaccine goes into our body, our **immune system** (免疫系统) thinks it is an **enemy**. The immune system practices fighting this enemy all the time. It becomes stronger and stronger. When the real enemy comes, the immune system can beat it and **protect** us.

4 Clinical test 临床试验

Scientists give the vaccine to about 20 patients. If they feel better, scientists give the vaccine to even more patients. If they all feel better, the vaccine is safe for everyone to take.



From making the vaccine in a lab to giving everyone the vaccine, this **process** can take up to a few years.



Birth of a **vaccine**

/'væksi:n/

Doctors and scientists are trying to invent new **medicine** to **kill virus**.

Scientists are also trying to make a **vaccine** to **prevent** (预防) the **novel coronavirus**.

Word bank | 词汇

- | | | | | |
|---|--------------------------------------|--|------------------------------------|---|
| 1 effort
/'ɛfərt/
■ 名詞 ▲ 动词 ● 形容词 ◆ 副词
■ 努力 | 2 weaken
/'wi:kən/
▲ 减弱 | 3 process
/'prə:səs/
■ 过程 | 4 enemy
/'enəmi/
■ 敌人 | 5 protect
/'prə'tekt/
▲ 保护 |
|---|--------------------------------------|--|------------------------------------|---|

The article mainly tells us about _____.

- A. how vaccines protect people
- B. how scientists make a vaccine
- C. making a vaccine is easy

Birth of a Vaccine

一株疫苗的诞生记 ★★★👤



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1 Finding the virus strain 分离病毒株

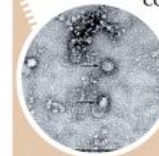


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TEXT: TEENS TUCHONG PHOTOS

Word bank | 词汇

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1 **effort**
/ˈefɜ:t/
■ 努力

2 **weaken**
/ˈwi:kən/
▲ 减弱

3 **process**
/ˈprɑ:səs/
■ 过程

4 **enemy**
/ˈenəmi/
■ 敌人

5 **protect**
/prəˈtekt/
▲ 保护

Read and find out

Is making a vaccine is easy or difficult? Why?

With the outbreak of new novel coronavirus (新型冠状病毒), many people are asking the question: When can we get a vaccine (疫苗)? In fact, making a vaccine is not easy. It takes great effort and a lot of time.

/'efərt/

Word in use:

great effort 巨大的努力

it takes ... to do 耗费……去做……

e.g.

It takes me one hour to read English.

Birth of a Vaccine

一株疫苗的诞生记 ★★★🎧👤

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关注
击“+”
应文

How many steps are there to make a vaccine?

1 Finding the virus strain

2 Making a vaccine

3 Animal test

4 Clinical test

Birth of a Vaccine

一株疫苗的诞生记 ★★★🎧👤



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How do vaccines protect people?

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1 Finding the virus strain 分离病毒株



First, scientists need to take some *virus strains* (病毒株) out of patients' bodies.



First, scientists need to take some virus strains (病毒株) out of patients' bodies.

Word in use:

virus strains 病毒株

take sth. out of sth. 把……从……中取出

patient /'peɪfnt/ 病人

On Jan 24, Beijing found the first virus strain. Look, this is the novel coronavirus. In February, a vaccine was born and scientists began to test it on animals. Now more places around the country have got the virus strain from patients.



Word in use:

find --- found

begin ---

What do you think of the novel coronavirus?



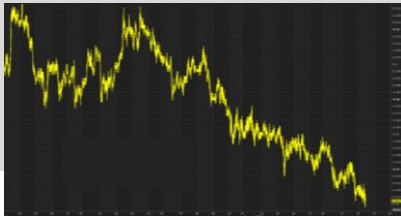
2 Making a vaccine 制作疫苗

Scientists use a few special ways to **weaken**² the virus strain. This way, the virus cannot harm people when it **enters** (进入) their bodies later.

Word in use:

special 特殊的

weaken



Scientists use a few special ways to weaken the virus strain. This way, the virus cannot harm people when it enters (进入) their bodies later.

↓
hurt



Why do scientists weaken the virus strain?




Why do scientists give the vaccine to animal first?

To make sure the vaccine is safe for people, scientists first give it to animals. If the animal is still OK after taking the vaccine, scientists go on to the next step.

3 Animal test
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安全性(safety)测试

将临床前疫苗注射给实验动物
(experimental animals)

如果动物挨针后生病或者有明显不良反应
(adverse reaction)
说明疫苗不安全



Word in use:

make sure 确信

be safe for sb. / doing 对于……是安全的

e.g. Water is that clean is safe for drinking

take the vaccine 接种疫苗

e.g. take some medicine



Why do scientists do many tests?

Scientists give the vaccine to about 20 patients. If they feel better, scientists give the vaccine to even more patients. If they all feel better, the vaccine is safe for everyone to take.

4 Clinical test 临床试验

Scientists give the vaccine to about 20 patients. If they feel better, scientists give the vaccine to even more patients. If they all feel better, the vaccine is safe for everyone to take.

brave volunteers

1st Give the vaccine to about 20 patients.

2nd Give the vaccine to more patients.

3rd Give the vaccine to everyone.



It takes great effort and a lot of time.

From making the vaccine in a lab to giving everyone the vaccine, this process can take up to a few years.

The process of making the vaccine

1 Finding the virus strain

2 Making a vaccine

3 Animal test

4 Clinical test

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How do vaccines protect people?

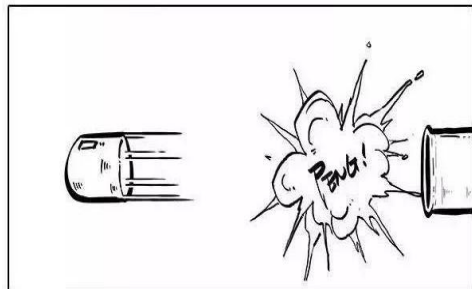
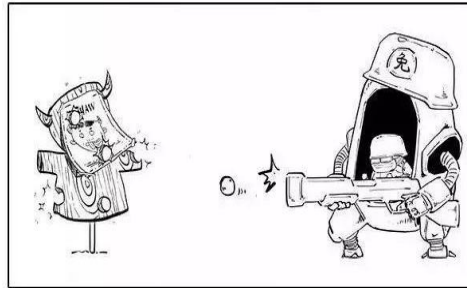
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Word in use:

enemy /'enəmi / 敌人

protect /prə'tekt / 保护



Pondering

What do you think of the doctors / nurses / and scientists?

Brave.
Selfless.
Fearless.



What should we do to protect our bodies?

Have good personal hygiene habits.
Care for each other.
Do sports.
Don't eat wild animals.

Assignment

1. Tell your parents / friends about the process of making a vaccine.
2. Make a poster about the birth of vaccine.



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