

Human defence systems and vaccination

WORK IT!

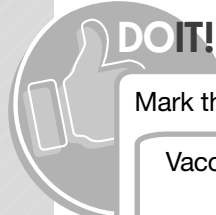
Describe and explain the body's defence against the influenza virus. (4 marks, ★★★)

The influenza virus cannot pass through the skin, which is a non-specific barrier. (1)

Mucus traps any inhaled virus, which is then moved up to the throat by cilia. (1)

Phagocytes will engulf the virus by phagocytosis. (1)

Lymphocytes will produce antibodies against the virus. (1)



DO IT!

Mark the student's answer below using the mark scheme, and suggest how to improve the answer.

Vaccination programmes are used worldwide. Explain how this helps to eradicate disease. (3 marks, ★★★)

If enough people in a country are vaccinated against a disease, the disease cannot be passed from
infected people, as the people around the infected person have been vaccinated.

MARK SCHEME

If enough people in a country are vaccinated against a pathogen, the pathogen cannot be transmitted from infected people, (1) as the people around the infected person have been vaccinated. (1) This is called herd immunity. (1)

Number of marks for student's answer:

How to improve the answer:

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