

# Do You Understand Vaccine?

## Answers for Part 1

**1. Which are the possible side-effects after vaccination?**

A: Injection site inflammation, allergy, and fever

*Learn more: Vaccines will stimulate immune response in one's body, therefore producing antibodies. However, mild inflammation, allergy, and fever will concur occasionally.*

**2. One can be immunologically protected by \_\_\_\_ after vaccination.**

A: Antibody

*Learn more: Vaccines induce production of antibodies mainly through the antigens in the immunological process.*

**3. Which vaccine must be injected within 24 hours after birth?**

A: Hepatitis B vaccine

*Learn more: Hepatitis B virus will be vertically transmitted to newly-born infants during the process of giving a birth. As a result, babies need to immediately take hepatitis B vaccine within one day.*

**4. Now babies have to take five-in-one vaccine. Not only can it keep people from infection of *Hemophilus influenzae* type B (Hib), but also what diseases listed below will be prevented?**

A: Tetanus, pertussis, diphtheria and poliomyelitis

*Learn more: In Taiwan, since 2010, five-in-one vaccine has been in place to protect people from the infection of *Hemophilus influenzae* type B (Hib), tetanus, pertussis, diphtheria, and poliomyelitis.*

**5. Why do we have to take influenza vaccines annually?**

Ans: Influenza virus will mutate quickly

*Learn more: Influenza virus is an RNA virus with highly variable strains as a result of frequent mutations. This variation causes seasonal epidemics every year. Human beings acquiring immunological protection have an ability to memorize the structures of pathogens and hence to swiftly hinder the secondary infection from taking place. Although vaccine will be metabolized, it will not affect the establishment of memorization or effectiveness of the immune system.*

**6. If one is allergic to \_\_\_\_\_ , that means he or she cannot take influenza vaccine?**

Ans: Egg.

*Learn more: At-present influenza vaccine antigens are generated by chicken embryo culture. Accordingly, people who are allergic to eggs should avoid taking influenza vaccine for safety purpose. In the worst situation, people with severe allergy may die without medical intervention.*

**7. If you have a mild fever after vaccination, would you need to take drugs?**

Ans: No, you don't.

*Learn more: After vaccination, mild fever is a normal physiological response. Taking antipyretics may relieve some mild cold symptom.*