

biology vaccine

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Vaccination in United State

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Purpose

- ▶ There is an existing dilemma among new parents in the United States on which vaccines to give to their new-born babies.
- ▶ Vaccination for new-borns is very overwhelming especially for new parents
- ▶ The new parents need have a good knowledge and understanding on what vaccine to give babies
- ▶ The purpose of this presentation is to help new parents to make informed decision on which vaccines to give their babies

Background

- ▶ The young babies have under developed immune system
- ▶ Most of them are unable to fight off infections
- ▶ Vaccines are used as immune boosters in new-borns
- ▶ Young children are always at a greater risks
- ▶ they can easily contract vaccine preventable infections
- ▶ The delaying or spacing out of vaccines is associated with risks.
- ▶ The vaccination requires adherence to schedule recommended by the healthcare workers.
- ▶ Scheduling is important since it is the best ways to protect babies at early life (CDC, 2020).

How vaccines work

- ▶ Vaccines, works by preparing the immune system in recognizing and combating pathogens
- ▶ Pathogens may be caused by bacteria or even viruses.
- ▶ During vaccination antigens are introduced into the body
- ▶ These antigens then triggers immune system.

How vaccines work

- ▶ The antigens triggers the immune system to learn and identify viruses and bacteria as aggressive invader
- ▶ This makes the create antibodies.
- ▶ antigens are recognized by immune system, they are attacked before pathogen spread to cause illness (Public Health Organization, 2020).

Traditional Vs. Recent Technological Methods Of Creating Vaccines

- ▶ The traditional approach of making vaccines was based on the intentional reduction of the pathogen while modern vaccines are prepared through recombinant DNA technology to produce a relevant microbial protective protein antigens.
- ▶ The traditional vaccines were made centred on the entire disease-causing agent while the modern vaccines are produced based on the immunologic prevention of the spread of an infectious disease, (Rauch, *et al*, 2018).
- ▶ Traditionally, the development of a new vaccine did not require a complex licensure and an expensive process as it is now in most commercial manufacturers.

Types of vaccines

- ❖ Chickenpox
- ❖ Diphtheria
- ❖ Tetanus
- ❖ whooping cough
- ❖ Haemophilus influenza type b(Hib)

Types of vaccines

- ❖ Hepatitis A (HepA)
- ❖ Hepatitis B (HepB)
- ❖ Measles
- ❖ Pumps
- ❖ Rubella
- ❖ Polio
- ❖ BCG

How vaccines have impacted USA For the last 100 years

- ▶ over the past 100 years active vaccination in the United States of America has impacted the frequency of diseases.
- ▶ There has been a reduction in most infectious diseases.
- ▶ The frequency of spread of disease like
 - ❖ Hepatitis A,
 - ❖ Rotavirus, Varicella and
 - ❖ Lyme disease have significantly been reduced (Denney,2001).
- ▶ Reduction in deaths resulting from most vaccinated diseases

Reason why parents are worried about vaccinating their children

- ▶ Personal reasons
- ▶ Safety issues.
- ▶ Religious beliefs.

Conclusion

- ▶ Vaccines are important because they can save the life of your child.
- ▶ Vaccines are very safe and effective hence no need for fears, (US Department of Health and Human Services, 2015).
- ▶ Immunization is a sign of care for the child.
- ▶ Immunization saves time and money
- ▶ Immunization protects the future generations

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