



Importance of Measles, Mumps, and Rubella Vaccine and its Effects on Children

Greshna Kaur*

Department of Public Health, Auckland University of Technology, Auckland, New Zealand

DESCRIPTION

The Measles, Mumps, and Rubella (MMR) vaccine stands as a cornerstone in pediatric healthcare, offering protection against three potentially serious viral infections. Its introduction has dramatically reduced the incidence of these diseases and their associated complications worldwide. Despite its proven efficacy and safety, the MMR vaccine has occasionally faced unfounded controversies and misinformation, leading to vaccine hesitancy among some parents. This aims to elucidate the importance of the MMR vaccine and its effects on children's health. The MMR vaccine is a combination vaccine designed to protect against measles, mumps, and rubella. It contains weakened or inactivated forms of the viruses that cause these diseases, activating the body's immune response without causing illness. By introducing the immune system to these antigens, the vaccine helps the body recognize and fight off these viruses more effectively if encountered in the future.

Importance of the MMR vaccine

Measles, mumps, and rubella are highly contagious viral infections that can lead to severe complications, especially in children. Measles, for example, can cause pneumonia, encephalitis, and even death in some cases. Mumps can lead to complications such as meningitis and deafness, while rubella infection during pregnancy can result in congenital rubella syndrome, causing birth defects in the unborn child. Vaccination is the most effective means of preventing these diseases and their associated complications. High vaccination rates within a community form herd immunity, which protects those who cannot be vaccinated due to medical reasons or age, such as infants and individuals with certain medical conditions. Herd immunity helps prevent outbreaks of these diseases and protects vulnerable populations. The widespread use of the MMR vaccine has led to significant reductions in the incidence

of measles, mumps, and rubella globally. In countries with high vaccination coverage, these diseases have become rare, highlighting the vaccine's vital role in public health.

The MMR vaccine is generally safe and well-tolerated. Most children experience no serious side effects beyond mild reactions such as fever, rash, or soreness at the injection site, which typically resolve on their own within a few days. Serious adverse reactions to the MMR vaccine are rare. Extensive research and monitoring have consistently shown that the benefits of vaccination far outweigh the risks. Despite overwhelming scientific evidence supporting the safety and efficacy of the MMR vaccine, misinformation and misconceptions persist.

CONCLUSION

The MMR vaccine has played a pivotal role in protecting children from measles, mumps, and rubella, significantly reducing the burden of these diseases and their associated complications. Its safety and efficacy are supported by extensive scientific research and real-world evidence. By ensuring high vaccination rates and dispelling misinformation, can continue to safeguard the health of our communities and future generations against these preventable diseases. Parents are encouraged to consult with healthcare providers to understand the importance of the MMR vaccine and make informed decisions regarding their children's immunization. Some parents express concerns about a purported link between the MMR vaccine and autism, stemming from a discredited study published in the late 1990s. Numerous subsequent studies have thoroughly debunked this claim, and the original study has been retracted due to ethical concerns and scientific inaccuracies. It is essential for parents to rely on credible sources of information, such as healthcare professionals and reputable medical organizations, when making decisions about vaccination.

Correspondence to: Greshna Kaur, Department of Public Health, Auckland University of Technology, Auckland, New Zealand, E-mail: greshna_kaur4567@gmail.com

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