



# Vaccine Medical Update Protection beyond Flu

Issue No. 4 JUNE 2024

## Affairs of the Month

**OHE REPORT:**  
Adult Vaccination Programs play a crucial role to living longer and healthier

### Special Feature:

Expert Insights:

*Influenza Exposed:  
Unmasking the hidden burden and solutions beyond the respiratory illness*

## Changing Perspectives

**Influenza Vaccines are NOT all the same**

## AFFAIRS OF THE MONTH:

### Is there a socioeconomic benefit to investing in adult immunization programs?

The world is currently experiencing significant demographic shifts, with aging populations. This, combined with the rise in chronic diseases among younger people and the unpredictability of infectious diseases, is putting immense pressure on healthcare systems.

A recent report commissioned by IFPMA and published by the Office of Health Economics has revealed that **adult vaccination programs can yield returns of up to 19 times their initial investment** when considering the full spectrum of economic and societal benefits. This translates to billions of dollars in monetary benefits for society, **amounting to up to \$4,637 for a complete vaccination course for one individual.**

This groundbreaking analysis looked at the delivery of adult vaccine programs in 10 countries (Australia, Brazil, France, Germany, Italy, Japan, Poland, South Africa, Thailand, and the United States), focusing on influenza, pneumococcal disease, respiratory syncytial virus, and herpes zoster. Despite these findings, there are still significant gaps leading to the underestimation of the value of vaccination and suboptimal policy decisions.

The report **calls for governments, in collaboration with public health authorities and individuals**, to:

- **Adopt a prevention-first mindset**
- **Implement and optimize robust adult immunization programs, emphasizing the importance of expanding to a broader adult population to generate higher value and greater cost savings for healthcare systems and society**
- **Expand and enhance the evidence base for the value of adult immunization programs**

Want to know more about this report, click here to read [report](#).

Reference: Office of Health Economics Report: The Socio-Economic Value of Adult Immunization Programs. Available at: <https://www.ohe.org/publications/the-socio-economic-value-of-adult-immunisation-programmes/>. Accessed June 24, 2024

## Special Feature: Expert Insights

### More than meets the **I**nfluenza



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**Influenza Exposed: Unmasking the Hidden Burden and Solutions Beyond the Respiratory Illness**

This [article](#) delves into the concealed weight of influenza, the essential paradigm shift, and the necessary recalibration of approaches in preventing this disease. Despite these challenges, the call to action remains: Your strong recommendation can make a difference. Click here to read [article](#)

Reference: Sanofi material in MIMS Education Portal  
Links: <https://www.mims.com/specialty/topic/needed-now-or-no-more--review-of-evidence-and-intricacies-of-influenza-vaccination>. Accessed May 22, 2024; <https://www.mims.com/specialty/topic/influenza-exposed--unmasking-the-hidden-burden-and-solutions-beyond-the-respiratory-illness>. Accessed May 22, 2024

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This material is strictly for Healthcare Professionals only.  
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If you had the chance to choose the type of influenza vaccine technology for your patient, what would you consider as important parameters?

Click on the **WATCH NOW** icon to find out more about the benefits of these different technologies.



Egg-based Vaccine <sup>1-3</sup>	Cell-based Vaccine <sup>1-3</sup>	Recombinant Vaccine <sup>1-3</sup>
<p><b>Adaptation</b> of wild type virus in egg cells</p> <p>Virus can shift and change in the eggs as it replicates during manufacturing</p>	<p><b>Adaptation</b> of wild type virus in mamalian cells</p> <p>Virus can shift and change in the cells as it replicates during manufacturing</p>	<p><b>NO adaptation required</b></p> <p>Proteins of viral strains are transcribed into a DNA sequence</p> <p>Does not rely on the virus replicating itself Only a portion of the genome is replicated</p>
<p>No viral pathogens used in manufacturing</p>	<p>No viral pathogens used in manufacturing</p>	<p>With viral pathogens used in manufacturing</p>

\*Mutations occurring during **virus adaptation** or **replication** can result in **reduced vaccine effectiveness**<sup>1-3</sup>

\*Recombinant vaccines are not subject to virus adaptation, thus the rHA is an exact match to circulating strains<sup>1-3</sup>

\*Standard influenza Vaccine: Egg-based influenza vaccine with a viral dose of 15mcg/strain<sup>1-3</sup>

\*High dose influenza Vaccine: Egg-based influenza vaccine with a viral dose of 60 mcg/strain<sup>1-3</sup>

Reference:

- Chen JR, Liu YM, Tseng YC, et al. Better influenza vaccines: an industry perspective. *J Biomed Sci.* 2020;27(1):33.
- Harding AT, Heaton NS. Efforts to Improve the Seasonal Influenza Vaccine. *Vaccines (Basel).* 2018;6(2)
- CDC Different Types of Flu vaccines. <https://www.cdc.gov/flu/prevent/different-flu-vaccines.htm>. Accessed June 24, 2024
- Video Link: Neede Now or No more: Review of Evidence and Intricacies of Influenza vaccination <https://www.mims.com/specialty/topic/needed-now-or-no-more-review-of-evidence-and-intricacies-of-influenza-vaccination>. Accessed June 24, 2024

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