

Seasonal Influenza Prevention and Control

EPI WIN Webinar



Global Influenza Burden

Seasonal Influenza

1 billion cases annually
3-5 million severe cases annually
290,000-650,000 influenza-related
respiratory deaths annually

Zoonotic influenza

H7N9, H9N2, H5NX

Animal viruses continue to spill over into humans

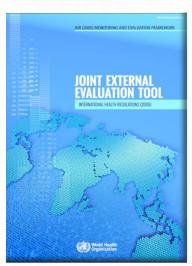
Pandemic influenza

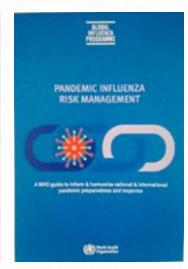
4 pandemics in last century 0.5-4.8% of global GDP lost in each Future pandemics a certainty

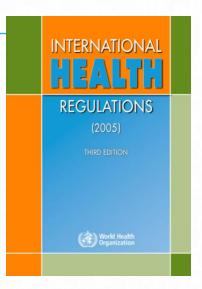
Building Capacity for Influenza

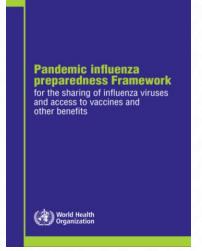
- Influenza is the perfect example of a "poster child" for capacity-building
- Why: Influenza affects every country every year
- Programmes for seasonal influenza surveillance, prevention & control are essential for pandemic preparedness
- Influenza capacity is IHR (2005) core capacity for EIDs



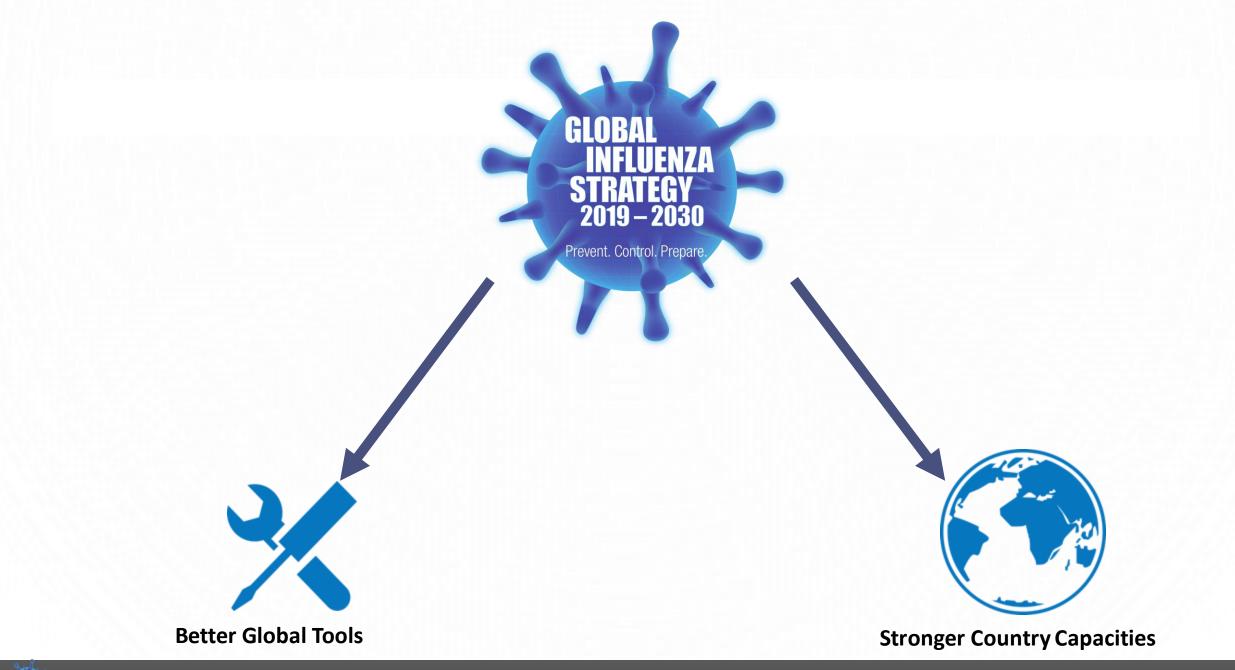








ONE HEALTH APPROACH

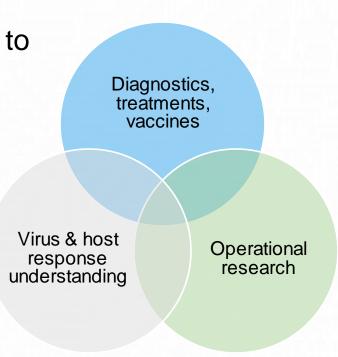


Outcome 1. Better Global Tools

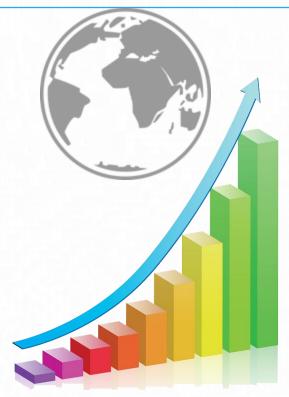


Strategic Objective 1: Promote research and innovation to address unmet needs:

- Improved, novel and universal vaccines
 - Broader immunity, longer lasting
 - Faster, improved technology, timeliness
- More effective therapeutics
 - Antivirals, immune modulators, other drugs
- Better understanding of the virus and host response
- Better detection methods, POC testing
- Optimized use of current tools in the meantime



Outcome 2. Stronger Country Capacities



1. Many countries are unprepared for a pandemic (i.e COVID-19, MERS, Ebola, influenza)



2. Strengthen countries' capacity for seasonal influenza and preparedness planning



- 3. Every country has a **prioritized influenza programme**
 - Evidence based,
 - Optimized to fit their needs, &
 - Contributes to national and global preparedness, response and health security.

Global Influenza Strategy: Four Strategic Objectives



Promote research & innovation to address unmet public health needs



Strengthen global influenza surveillance, monitoring & data utilization



Expand seasonal influenza prevention & control policies/programmes to protect the vulnerable



Strengthen pandemic preparedness & response for influenza to make the world safer

Vision for 2030

Attainment of the highest possible influenza prevention, control and preparedness to safeguard the health of all people



Thank you!



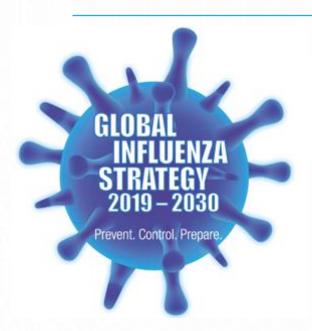


Seasonal Influenza Vaccination: Developing and Strengthening National Programmes

Shoshana Goldin World Health Organization



WHO recommends that all countries should consider implementing seasonal influenza vaccination programmes



Vision for 2030

Attainment of the highest possible influenza prevention, control and preparedness to safeguard the health of all people

OBJECTIVES





Surveillance, monitoring & data utilzation





OUTCOMES

Better global tools

- · Improved, novel and universal vaccines
- . More effective treatments
- · Better understanding of virus & host response
- · Better detection methods
- · Optimized use of current tools

Stronger country capacities

- Integrated capacity building
- · Seasonal influenza prevention programmes
- Early detection capacity
- . Up-to-date preparedness plans

GOALS



Reduce burden of seasonal influenza



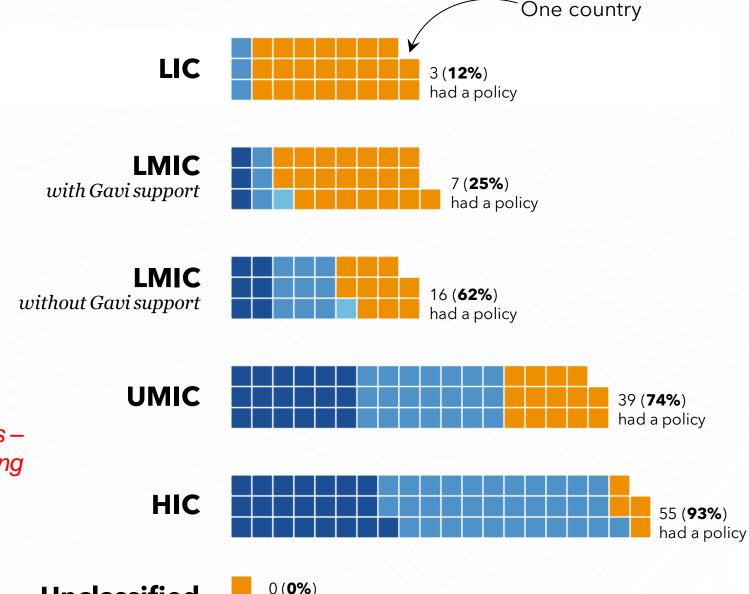




Mitigated impact of pandemic influenza

National influenza vaccination policies

Existed in all income groups but were reported more often in higher income countries and countries that were eligible for support from Gavi.



had a policy

Policy

Public & private sectors

Public sector

Private sector

Preliminary findings – Publication upcoming

No policy

HIC: high income; LIC: low income; LMIC: low er-middle income; UMIC: upper-middle income. Source: 2022 programme data collected via the 2023 WHO/UNICEF eJRF supplemented with the most recent JRF report (2017–2021) when a 2022 report was unavailable | Based on data available 26 September 2023 (n= 194).

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Is influenza vaccination available in your country?

Vaccines against influenza: WHO position paper – May 2022

New position paper published on 13 May 2022:

- SAGE decision-making process reflected in evidence-to-recommendation tables
- Replaces the previous 2012 WHO position paper on influenza vaccines

Focus is on vaccines and vaccination against seasonal influenza

- Intended for use by national public health officials and immunization programme managers
- May also be of interest to funding agencies, vaccine advisory groups, vaccine manufacturers, health professionals, researchers, scientific media, and the general public

Selection of target groups

For countries considering initiation or expansion of seasonal influenza vaccination programmes, WHO recommends the following as priority target groups (alphabetical order):

- Health workers
- Individuals with comorbidities and underlying conditions
- Older adults
- Pregnant women

Other groups to consider:

Children

Individuals living in congregate-living settings (e.g., prisons, refugee camps, group homes)

Disadvantaged populations Indigenous populations

Selection of target groups is ultimately based on local context (e.g., burden of disease, national goals and policies) and programme feasibility (e.g., capacity, resource availability)

When to vaccinate?

WHO recommends annual seasonal influenza vaccination prior to the beginning of the influenza season

For tropical and subtropical areas with multiple peaks of influenza activity, WHO recommends seasonal influenza vaccination **prior to the start** of the primary period of increased influenza activity.

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Have you been vaccinated against influenza this year?

Materials to Support Influenza Vaccination Programmes

Policy Brief

 Key elements to include in seasonal influenza vaccination policy

BeSD Tool

 Tool to better understand behavioral and social drivers for influenza vaccination

Will be published in 2024

<u>Vaccination</u> Toolbox

 Training, guidance, campaign materials, and other useful resources

https://www.who.int/publications/i/item/9789240084636

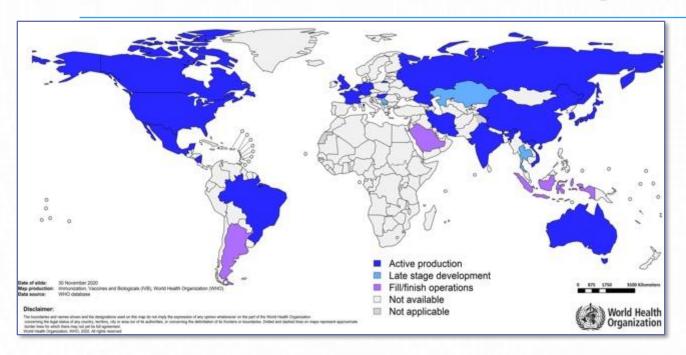
https://www.who.int/teams/globalinfluenza-programme/vaccines/influenzavaccination-toolbox

Policy Brief: Key components of national policies

- Rationale
- Surveillance, burden of disease, and economic burden
- NITAG roles and responsibilities, national recommendations, and estimates of target groups
- Preferred vaccine types and costs
- Vaccine supply and market authorization
- Distribution and administration (E.g. timing, sites, supplies, cold chain, waste, inventory)
- Risk communications, community engagement, and demand generation
- Documentation and reporting
- M&E and research
- Funding
- Process for updating the policy

Links to helpful resources (e.g. WHO recommendations, manuals, and tools)

Global influenza vaccine production capacity



- 31 manufacturers (2019)
- Maximum annual production capacity

Seasonal: 1.48 billion doses

Pandemic: up to 8.31 billion doses (best case)

Production capacity largely concentrated in HICs

Income status	# of facilities	% capacity seasonal	% capacity pandemic	% of world population
LIC	0	0%	0%	9%
LMIC	5	2%	1%	38%
UMIC	15	29%	19%	37%
HIC	20	69%	80%	16%

	Seasonal influenza	Pandemic influenza				
By vaccine type						
//V	89.6%	88.9%				
LAIV	5.0%	3.4%				
Recombinant	5.4%	7.7%				
By substrate						
Eggs	84.5%	79%				
Cell culture	15.5%	21%				

Sparrow E, Wood JG, Chadwick C, Newall AT, Torvaldsen S, Moen A, et al. Global production capacity of seasonal and pandemic influenza vaccines in 2019. Vaccine. 2021;39(3):512-20.

Resources

- Vaccines against influenza: WHO position paper May 2022: https://www.who.int/publications/i/item/who-wer9719
- Evidence-to-recommendations tables: https://cdn.who.int/media/docs/default-source/immunization/position_paper_documents/influenza/influenza-sage-annexes-04-05-22.pdf?sfvrsn=566a6082_1
- Influenza vaccination toolbox: https://www.who.int/teams/global-influenza-programme/vaccines/influenza-vaccination-toolbox
- Influenza vaccines overview for policymakers: https://apps.who.int/iris/handle/10665/336951
- Guidance on the economic evaluation of influenza vaccination: https://apps.who.int/iris/bitstream/handle/10665/250086/WHO-IVB-16.05-eng.pdf
- WHO Flutool plus seasonal influenza immunization costing tool (SIICT) and training: https://openwho.org/courses/influenza-costing-tool
- Understanding the behavioural and social drivers of vaccine uptake position paper: https://apps.who.int/iris/bitstream/handle/10665/354458/WER9720-eng-fre.pdf

Thank you





Seasonal Influenza Vaccination (Jordan)

Context:

- Influenza vaccines have been used in Jordan since 2003.
- A formal seasonal influenza vaccination policy will strengthen the programme. The Ministry of Health (MOH)
 in collaboration with the National Immunization Technical Advisory Group and national stakeholders
 developed the first draft of the influenza vaccination policy
- The policy development was supported by WHO and the Task Force for Global Health's Partnership for International Vaccination Introduction. The policy is currently under legal review to be endorsed.

To support uptake of the vaccine, MOH is also:

- 1. Conducting educational sessions for MOH, health workers, primary health care centers, and hospitals to address barriers for influenza vaccination.
- 2. Educating the public on the importance of influenza vaccination before the season through national interviews on media outlets.
- 3. Refining the WHO tools for Understanding Behavioural and Social Drivers of Seasonal Influenza Vaccination by field testing them in two primary health centers.



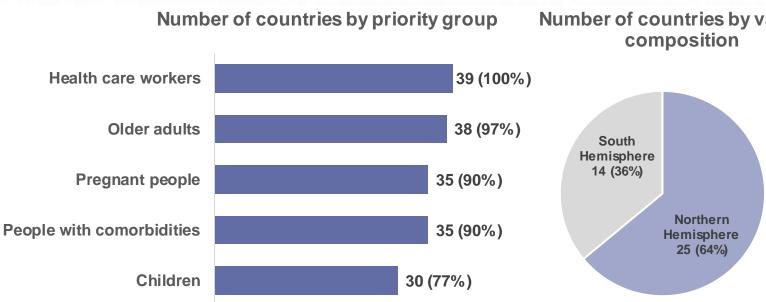
Number of doses distributed through PAHO



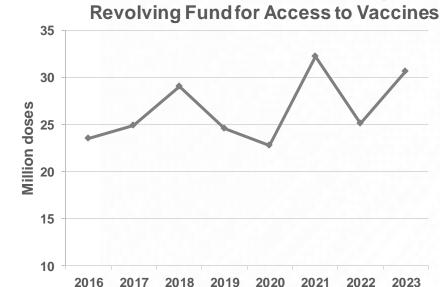


Seasonal influenza vaccination in the Americas

39 (89%) of the countries in the American Region have seasonal influenza vaccination



Number of countries by vaccine



2023





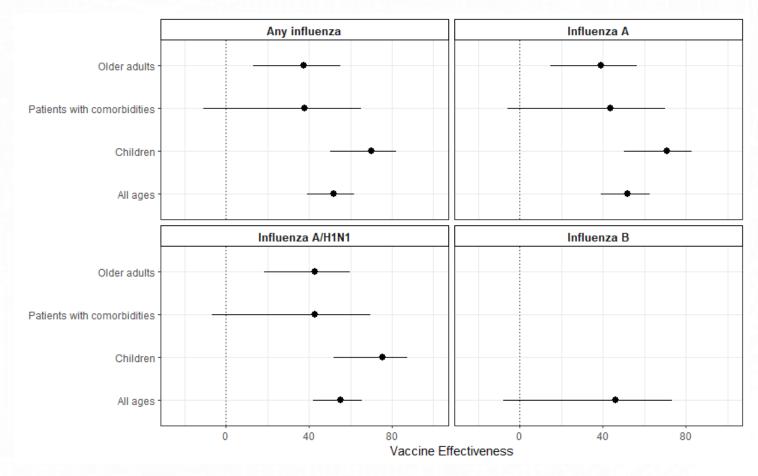


Regional Vaccine Effectiveness Network





Influenza vaccine effectiveness against hospitalization, SH 2023



Antivirals (Japan)

- Recommended and available antivirals for influenza in Japan
 - Oseltamivir (Oral), Zanamivir (Inhaled), Peramivir (Intravenous), Laninamivir (Inhaled),
 Baloxavir (Oral)
- Antivirals are commonly prescribed to patients with influenza
 - Antivirals are recommended for those at higher risk of influenza complications
 - Clinicians can prescribe antivirals to non-high-risk patients based on clinical judgement
 - Antivirals for prophylaxis can be considered in certain settings (e.g. outbreaks in hospitals and long-term care facilities)
- Antivirals should be given as soon as possible (< 48 hours after onset of illness)
- Antivirals for treatment and rapid antigen tests are covered by the health insurance

We welcome your questions through the Q&A feature!



