**THE EXCITING JOURNEY FROM FLU VIRUS TO VACCINE**

**SURVEILLANCE ACTIVITIES BEFORE MANUFACTURING**

**INFLUENZA**
5-10% adults and 20-30% children worldwide are affected every year!

**GISRS**
Global influenza surveillance is driven by the World Health Organization's (WHO) Global Influenza Surveillance and Response System.

**World Health Organization**
Thousands of scientists worldwide collaborate and analyze viruses and surveillance data.

**These centers send representative samples and isolated strains of the virus to the 6 WHO collaborating centers**

**More than 110 countries have such centers that collect samples and get practical support as part of the WHO network**

**A doctor anywhere in the world takes virus samples from a patient and sends them to their national influenza center**

**Once these 6 centers receive the virus strains, they run advanced antigenic and genetic analyses**

**The collaborating centers monitor changes in the strains and determine the composition of the new vaccine. They then ship the viruses to specialized labs to develop a special form of viruses for the vaccine production**

**Other virus of pandemic potential**

**The WHO Scientific Committee for Influenza vaccine composition meets twice per year to decide which virus strains should go into vaccine manufacturing**

**Six months later**

**High priority groups for flu vaccination: children aged 6-59 months - pregnant women - elderly - health-care workers - individuals with specific chronic medical conditions**

**The concerted year-round effort by thousands of healthcare professionals, scientists, and vaccine manufacturers worldwide is a vital step in developing the flu vaccine**

**Every year, the selected viruses are shipped to manufacturers worldwide to start the vaccine production, in big quantities, high quality, and within specific timelines**

International Federation of Pharmaceutical Manufacturers & Associations

IFPMA