

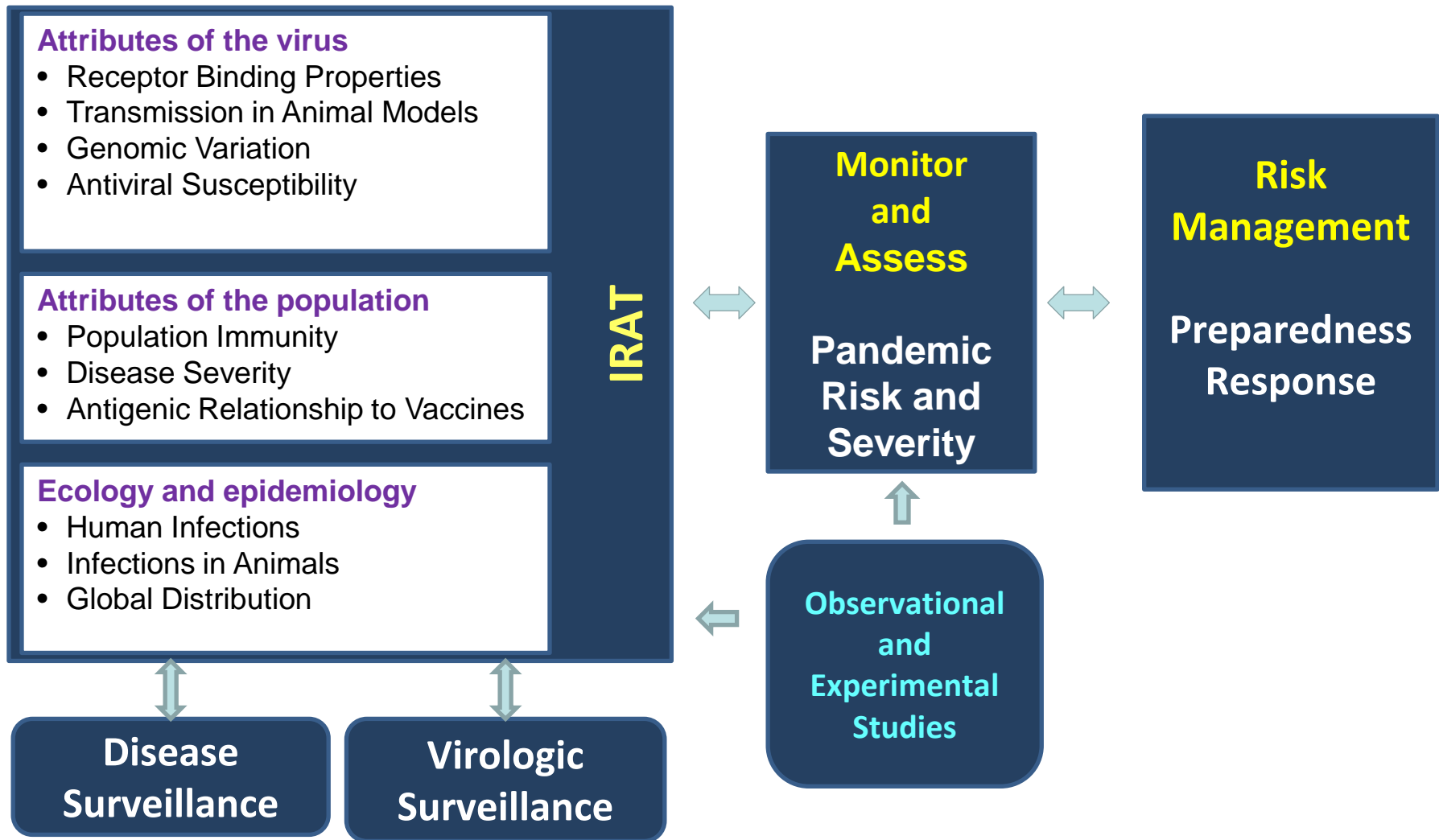


United States Department of
Health & Human Services
Office of the Assistant Secretary for Preparedness and Response



Risk Management: Pre-pandemic Influenza Vaccines

Rick Bright, PhD
Director, Influenza Division
Biomedical Advanced Research and
Development Authority (BARDA)



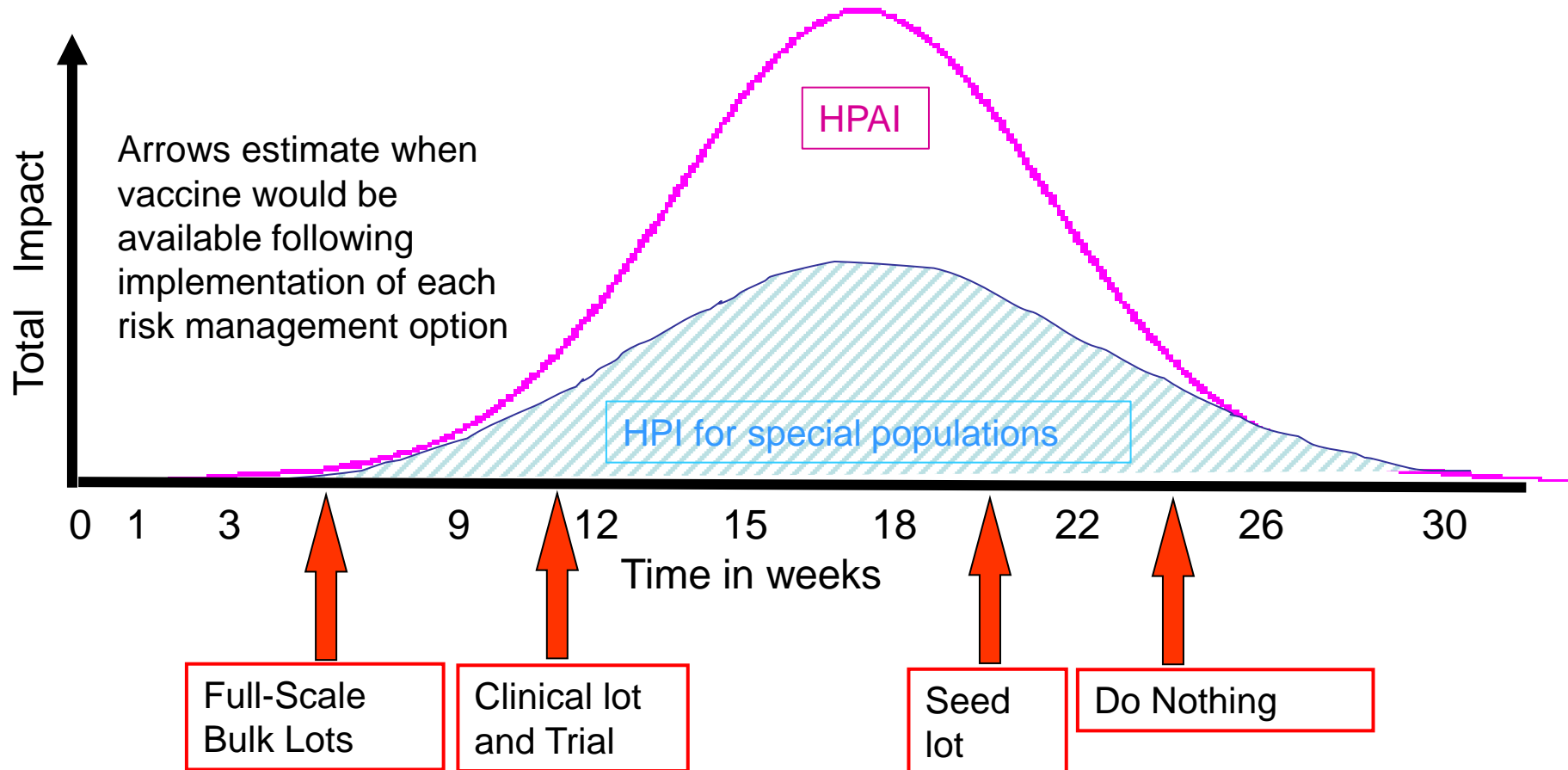
Making Decisions about Pre-pandemic Influenza Vaccines

- HHS uses the Pandemic and Seasonal Influenza Risk Management Meeting (FRMM) to make decisions about influenza strains for inclusion in the pre-pandemic vaccine stockpile
 - Senior-level forum for decision-makers from stakeholder agencies to identify and address risk management issues related to the development, acquisition, deployment and utilization of medical and public health countermeasures for influenza
 - Decisions are evidence-based and use a metered approach to response, ranging from monitoring novel strain emergence to a full pandemic vaccine production response



Pre-Pandemic Influenza Vaccine Availability by Risk Management Option

Two pandemic scenarios represented here: HPAI = high pathogenicity avian influenza
HPI = high pathogenicity influenza





U.S. Pre-Pandemic Influenza Vaccine Stockpile: Risk Based, Metered Approach



- 2005 H5N1 outbreak in SE Asia
 - Established stockpile and met stockpile goals
 - Implemented innovative Mix and Match program
- 2009 H1N1 Pandemic
 - 186 M doses of H1N1 vaccine were filled by the manufacturers
 - 120 M doses of bulk adjuvants (AS03 & MF59) purchased as a contingency
- 2012 H3N2v outbreak in the US
 - Clinical lots were made and clinical trials conducted
- 2013 H7N9 outbreak in China
 - Clinical lots were made and clinical trials conducted
 - Stockpiled bulk antigen



U.S. Pre-Pandemic Influenza Vaccine Stockpile: A National Asset



Expands the scientific knowledge base of diverse influenza viruses and antigens

— Physical properties

- Production experience for a variety of influenza viruses
- Antigen / adjuvant stability
- Storage conditions

— Immunological properties

- Mix and Match antigen / adjuvant combinations
- Heterologous prime / boost strategies
- Contributes to research agenda for systems biology and development of more effective, next generation influenza vaccines