

# Assessing Potential Role of IPV in India

What we don't know and what we  
can do about it

# IPV Questions

- What is the effect of IPV on circulation of wild poliovirus?
- What is the effect of IPV on circulation of wild poliovirus in India?

# IPV Questions

- Effect of IPV on Individual Immunity
- Effect of IPV of Virus Circulation
- How to achieve cost effective, high coverage

# IPV Questions

- Individual Immunity
  - Seroconversion
    - Age
    - Interval
    - Doses
  - Mucosal Immunity
    - Pharyngeal
    - Intestinal

# IPV Questions

- WPV Circulation
  - Population dynamics
    - Biology
    - Population ecology
    - Route of transmission
    - Heterogeneity (family, community)
  - Contribution of mucosal immunity
    - Natural Boosting
  - Disease vs. Infection
  - Vaccine intervention
    - OPV
    - IPV

# IPV Questions

- Coverage
  - Delivery
    - SIA
    - Routine
  - Access
    - High-risk populations
  - Cost
    - Fractional dose

# IPV Questions in India

- Individual Immunity
  - Studies possible
  - Value of India specific information?
- Effect on WPV Circulation in India
  - Proxy of OPV shedding
    - Avoiding duplication with what has been done
    - Identifying India specific questions?
  - Effect on wild virus transmission
    - How to make information informative/interpretable or generalizable?

# IPV Questions in India

- Coverage
  - How to achieve high coverage
  - How to reach high-risk populations
  - How to improve cost-effectiveness
  - How to achieve integration with routine

# In Search of IPV Answers

- Clarity on questions to be addressed
- Clarity on India specific questions
- Avoiding duplication
- Distinguish short-term versus long-term value of information