



# Piloting Respiratory Syncytial Virus (RSV) Surveillance system in selected sentinel sites in Egypt, 2017

Challenges and needs in implementing RSV surveillance

**WHO Meeting of Mid-term Review of the RSV Surveillance Pilot  
Based on the Global Influenza Surveillance and Response System  
18 – 20 December 2017  
PAHO, Washington DC, USA**

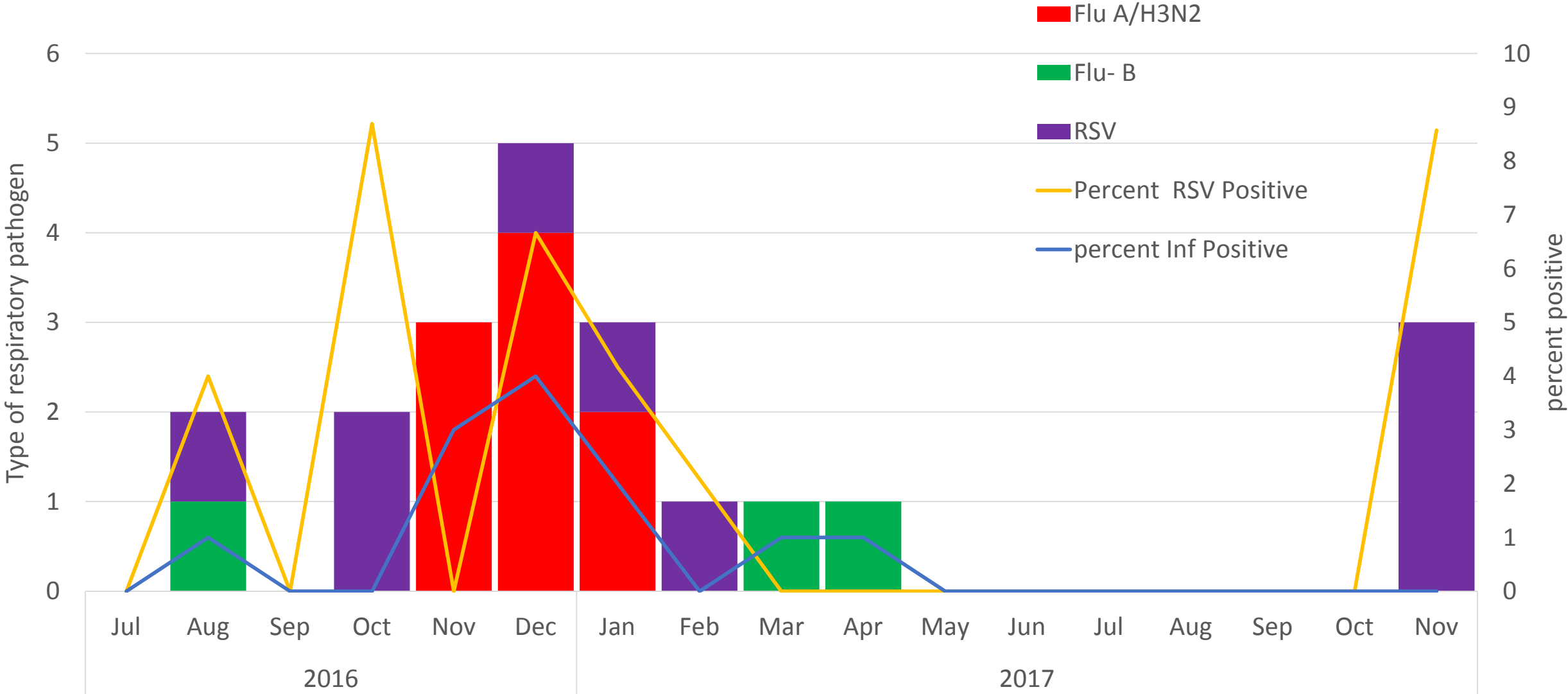
# Enrollment criteria

- Screening done daily for all new cases of pneumonia from all age groups admitted to the inpatient wards and intensive care units of the selected sentinel hospitals. Patients b enrolled according to the following criteria:
- An acute pulmonary illness with cough with at least one of the following symptoms/signs;
- Cough + one or more of the following symptoms: Fever ( $>38.0^{\circ}\text{C}$  or  $>100.4^{\circ}\text{F}$ ) - Tachypnea ( $>25$  respirations/min) - Tachycardia ( $>100$  bpm) - rales / crepitation + confirmed chest X-Ray
- Patients meeting case definition swabbed nasopharyngeal and oropharyngeal swabs tested by PCR for RSV and influenza at CPHL

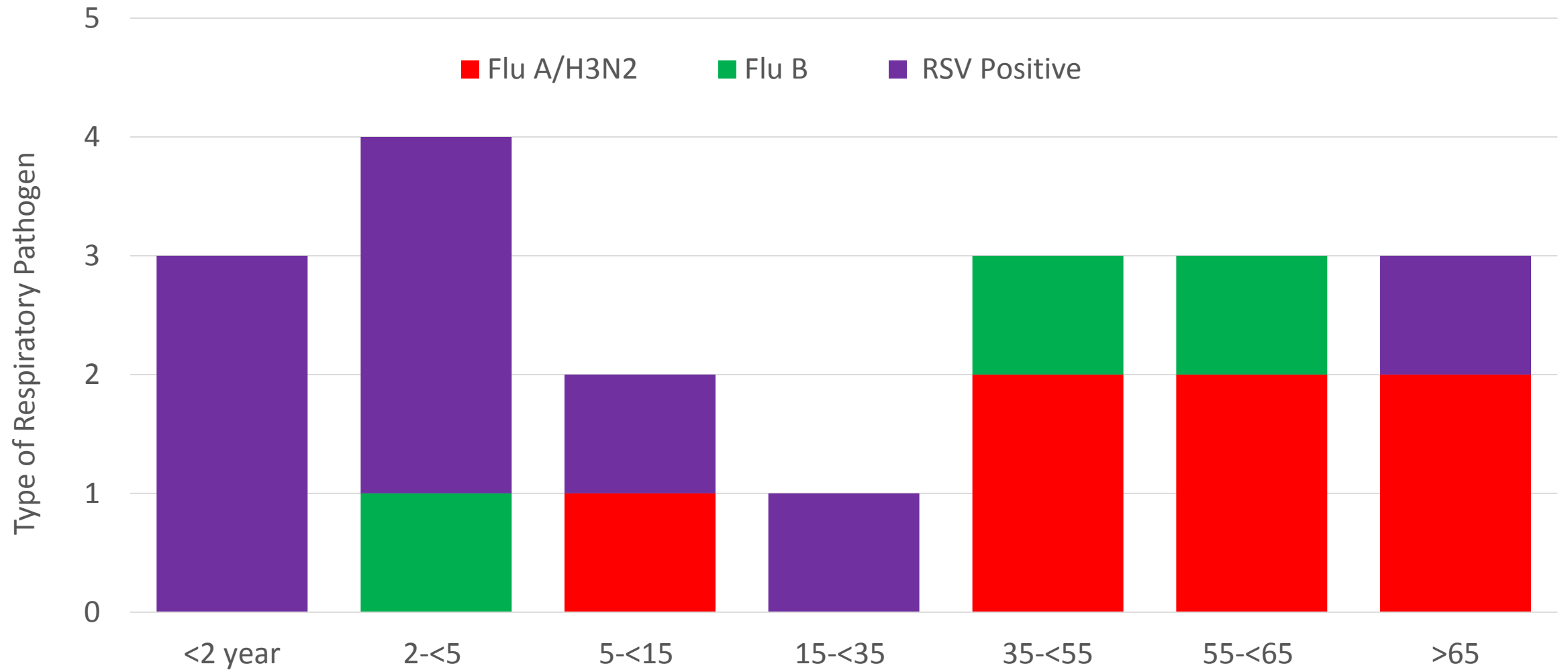
# Epidemiologic characteristics of 5 sentinel pneumonia sites , Egypt 2016-2017

- Number of enrolled cases: 492
- Valid specimens for testing 459
- Age :One month- 91 years (Median = 50 years)
- Males : 50%
- ICU admissions = 52%
- RSV positives among ICU admitted= 1%
- Influenza positives among ICU admitted= 1%
- Fatalities 10 cases =2.2% Negative for RSV and influenza

# Distribution of Influenza and RSV among 5 sentinel pneumonia sites Egypt July 2016- November 2017 ( 459 specimens)



Distribution of Influenza and RSV by PCR and age groups in 5 sentinel pneumonia sites Egypt 2016-2017





# Challenges in implementing RSV surveillance

- Lost Fund from NAMRU-3 used for RSV sample shipment due to complete shut down since 2016
- High turnover of trained personnel Epi and Lab lead to inappropriate application of case definition and sample management
- Limited fund to support training and supervisory visits
- Shortage of storage area at CPHL , overcrowding of deep freezers due to receiving huge amount of samples nationwide



# Needs for implementing RSV surveillance

- Fund to support RSV sample shipment
- Training of sentinel sites staff on Epi and Lab SOPs
- Subtyping and sequencing of RSV on central level
- On site training for RSV sequencing



Questions?