

11TH MEETING OF CARIBBEAN NATIONAL
EPIDEMIOLOGISTS & LABORATORY DIRECTORS

Influenza Surveillance in the Caribbean Sub-Region

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Overview

- Background
- Data collection
- Lab operations
- Regional Data
 - Clinical
 - Laboratory
- Challenges
- Requests

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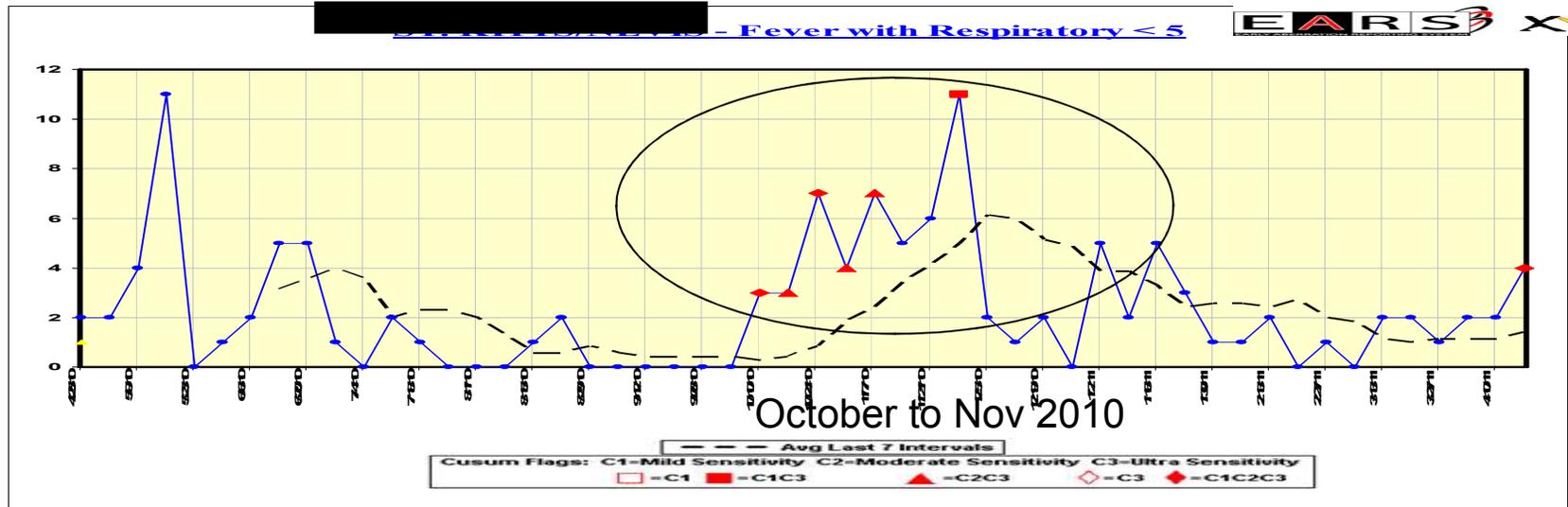
Background

- Information about influenza season based on:
 - Reports from physicians in the community
 - Syndromic surveillance: fever & respiratory category
 - Monitoring laboratory results
 - SARI/ARI surveillance (implemented in 6 CAREC member countries in 2010)
 - SARI related hospitalizations
 - SARI related deaths

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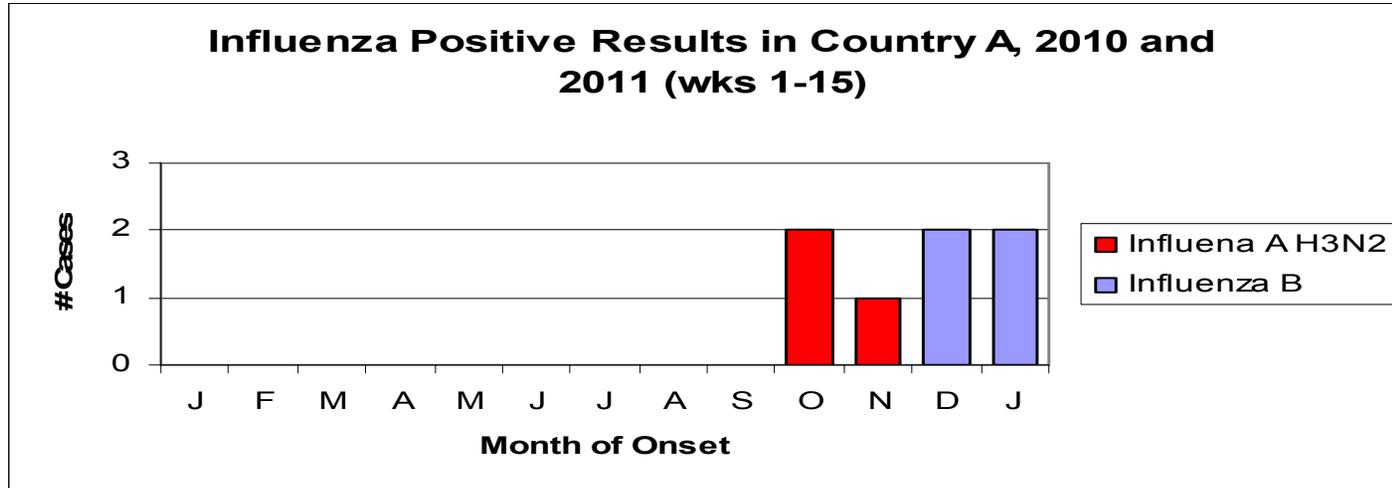


Syndromic Surveillance



- Look at cases throughout the year, not just during outbreaks or peaks
 - Age, gender, location, hospitalized and/or died
- Ensure specimens are collected for cases (recommend 6 NP swabs per week at least)

Laboratory Surveillance



- Laboratory confirmations in 2010
 - Influenza A H3N2 (Oct/Nov) and Influenza B (Dec/Jan)
- % positivity: 2010: 63% 2011 to date: 25%
- Age of all 2010 cases
 - Range: 24-66, Median: 30 yrs

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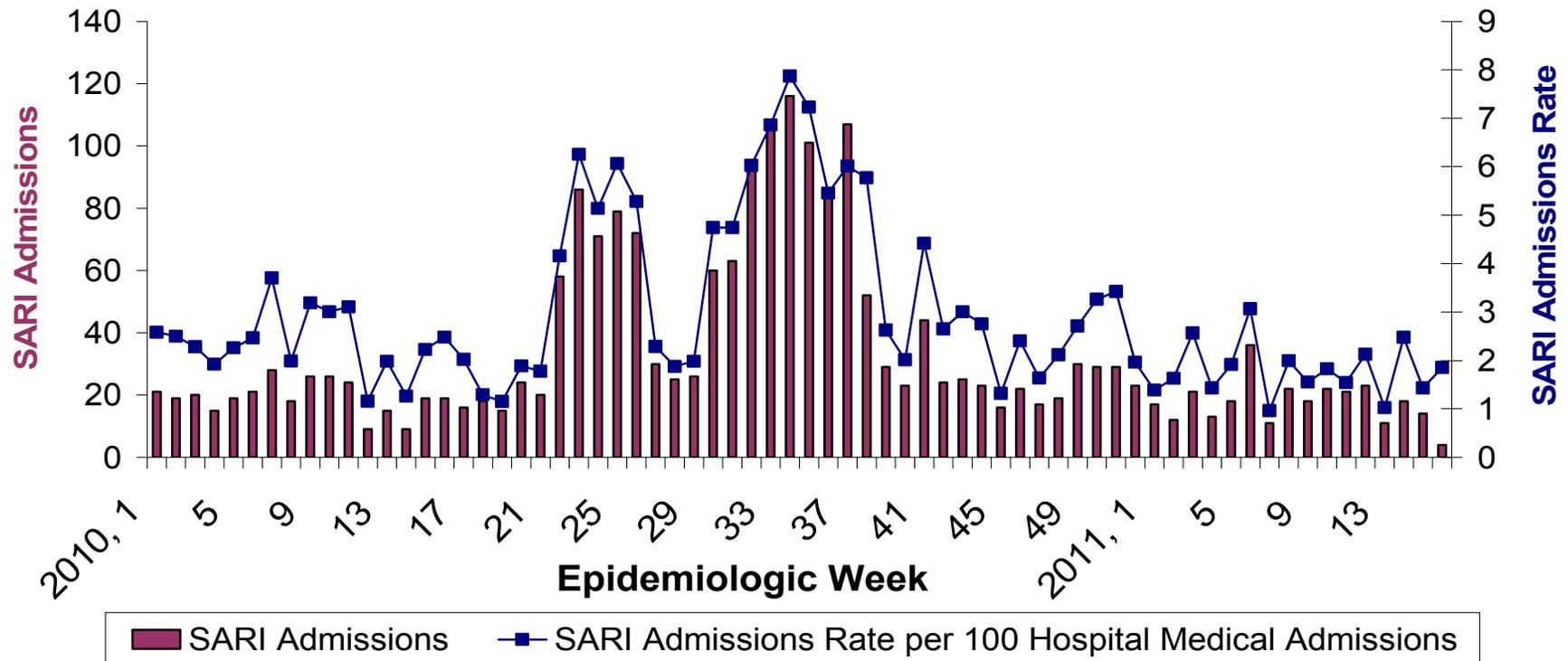


SARI Activities

- Enhanced surveillance for persons with severe acute respiratory illness (SARI) at sentinel sites (usually 1 hospital per country)
- Technology transfer in 6 SARI sentinel countries including training in IFA test and PCR for influenza and other respiratory viruses

SARI Admissions and SARI Admissions Rate per 100 Hospital Medical Admissions from Sentinel Sites in Select CAREC Member Countries

Epidemiologic week 27, 2010 to week 16, 2011*

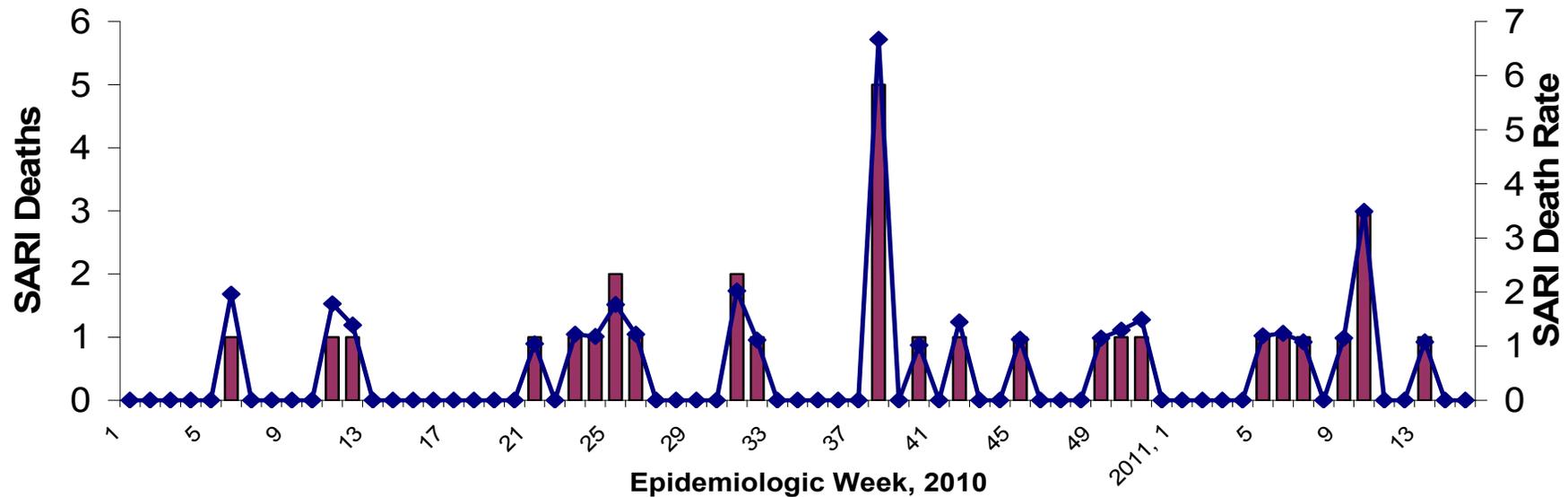


* Note: Graph includes data from Barbados, Dominica, Jamaica, St. Lucia, St. Vincent & the Grenadines, and Trinidad & Tobago.

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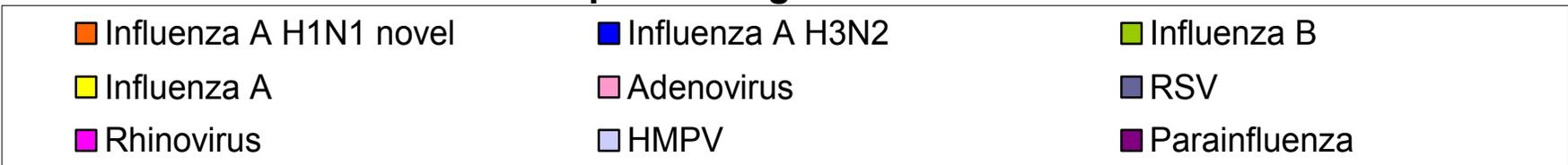
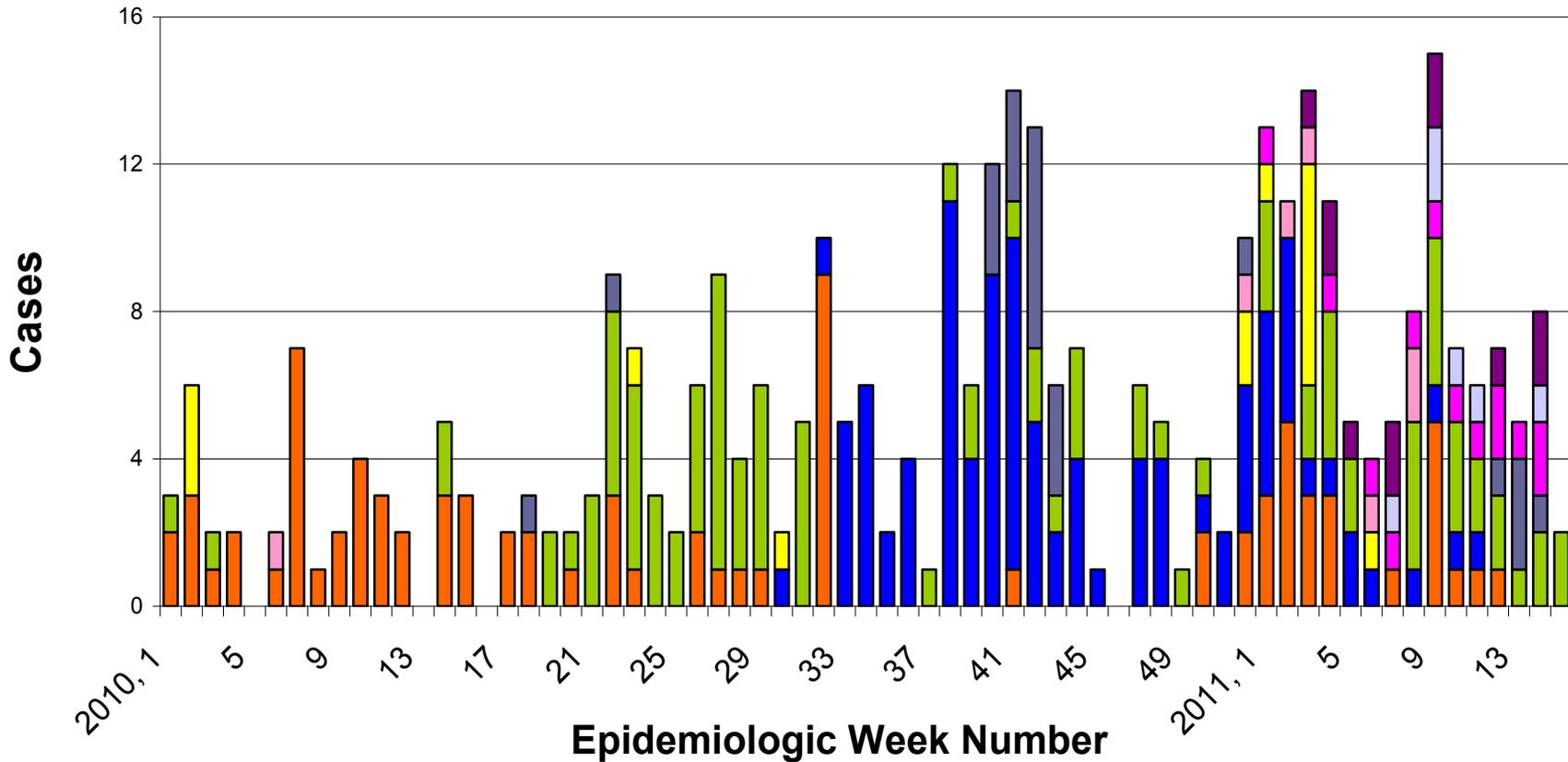


SARI Deaths and SARI Death Rate per 100 Hospital Medical Admissions from Sentinel Sites in Select CAREC Member Countries Week 1, 2010 to week 15, 2011*



Laboratory Confirmed Respiratory Illness Cases by Aetiologic Agent

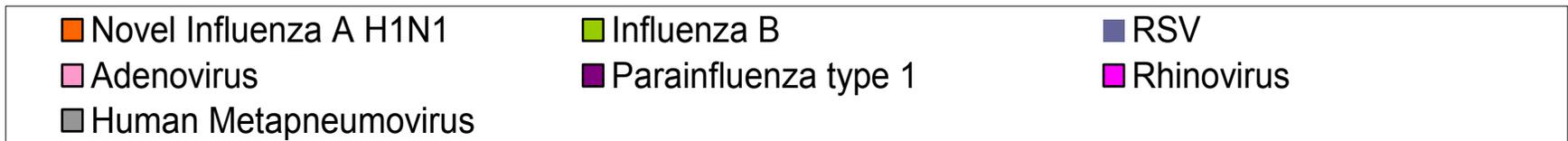
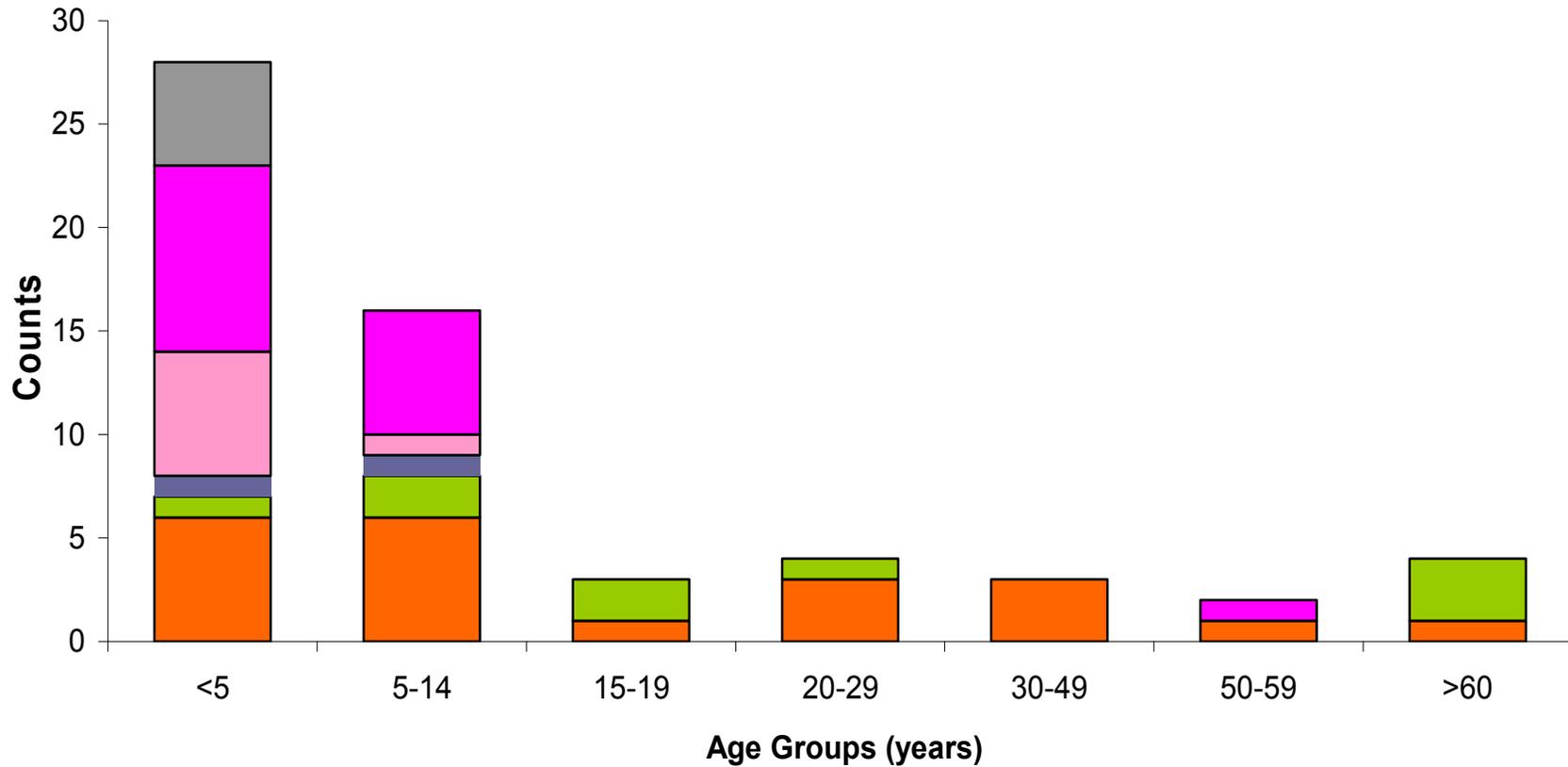
CAREC Member Countries, Week 1, 2010 to Week 15, 2011



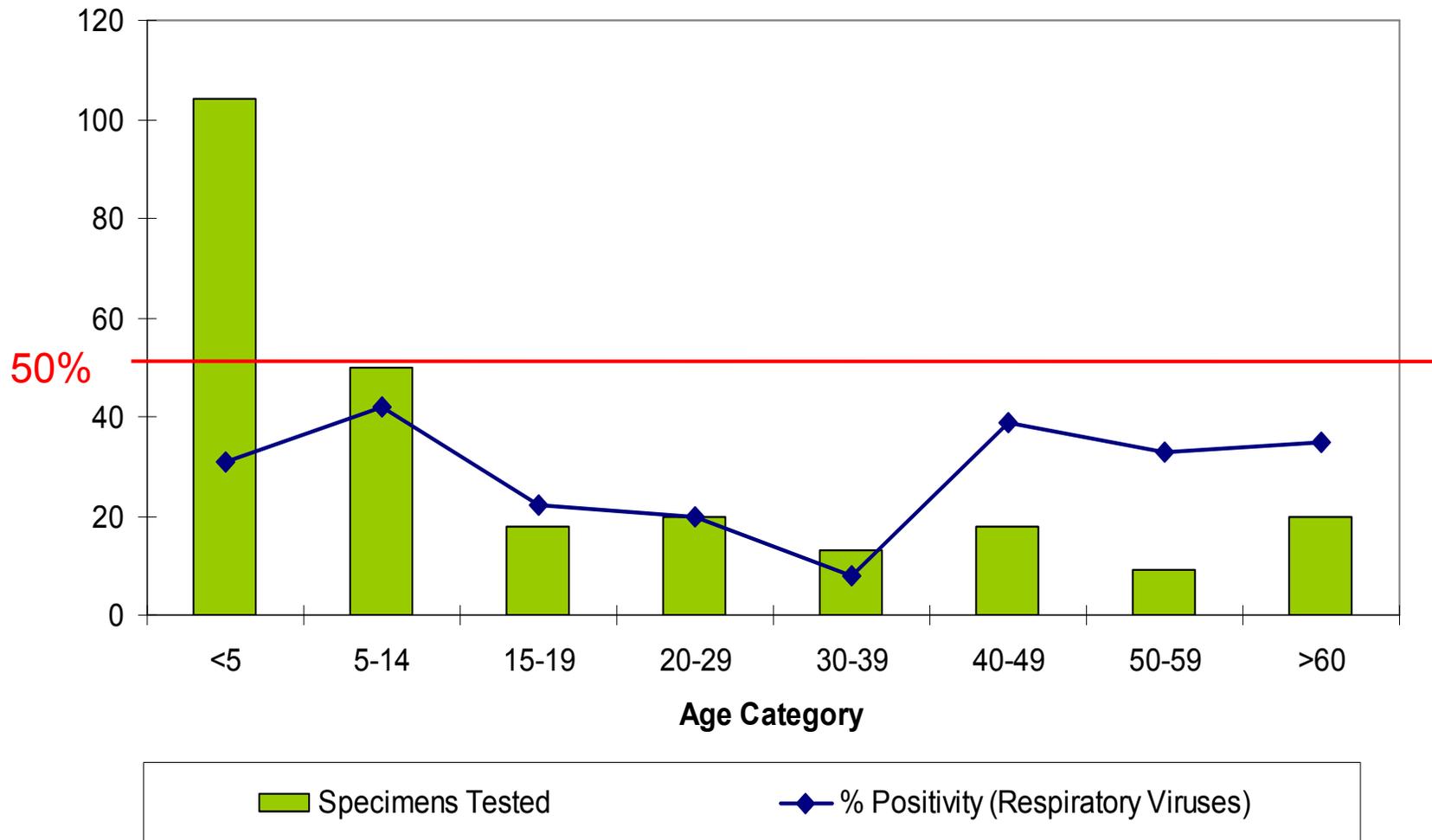
Influenza Confirmations

- 2010: influenza confirmed in 12 of 21 CAREC member countries
- 2011 to date: influenza confirmed in 9 of 21 countries
- *Question: do you think influenza and other respiratory viruses are not circulating in the countries without lab confirmed cases?*

**Distribution of Laboratory Confirmed Influenza Cases by Age Group
at the CAREC Laboratory and in Selected CAREC Member Countries
Epidemiologics week 1-15, 2011***



Specimens Tested and % Positivity by Age Group, CAREC, Weeks 1 to 15, 2011



Thank you



- Questions?

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