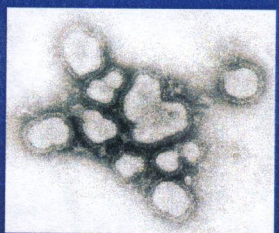


# H1N1 Update



Helene M. Calvet, M.D.

Long Beach City Health Officer  
Long Beach Department of Health  
and Human Services

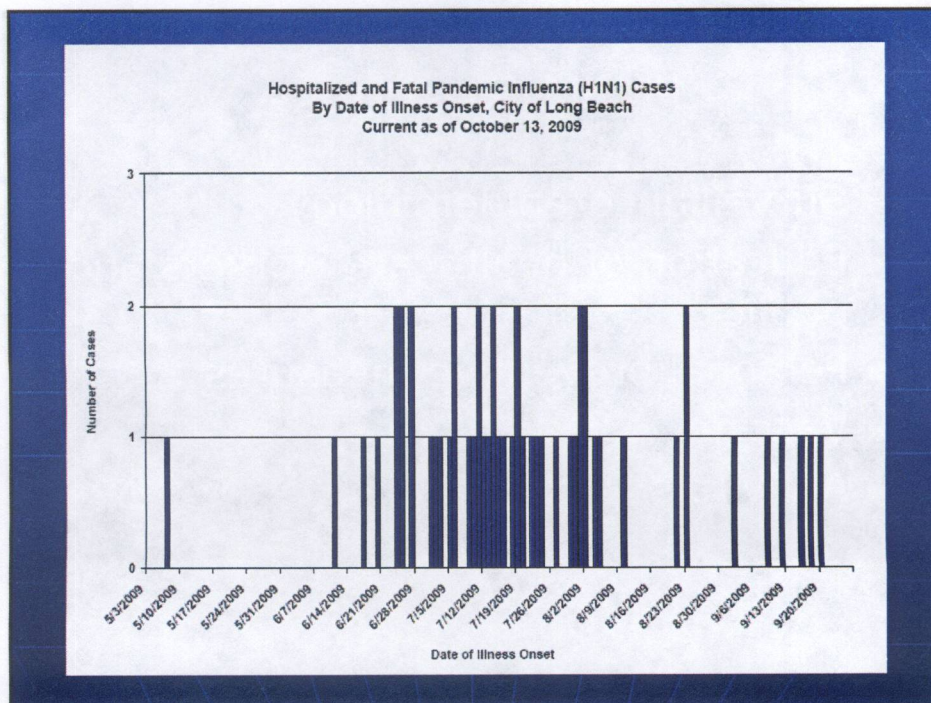
# H1N1 Response

- Surveillance/epidemiology
- Education of healthcare workers and public
- Personal preventive measures
- Vaccine
- Antivirals

## Case Numbers (Hospitalized and Deaths Only)

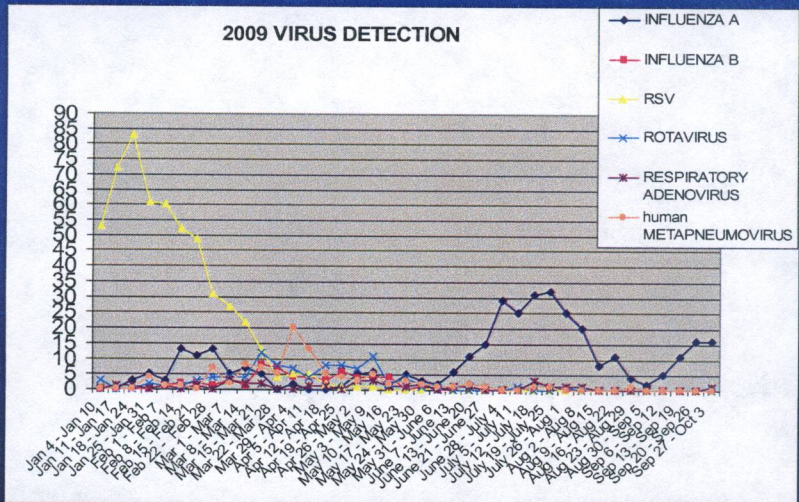
- California (as of October 2): 2748 hospitalizations, 206 deaths
- Long Beach (as of Oct. 7): 49 hospitalizations, 2 deaths
  - Majority of cases under 35 y.o., mean age 17
  - 33% needed ICU care

3



# LBMMC Virus Surveillance

10/5/09



5

## Potential Long Beach Impact Population 461,000

Up to 30% of population may become ill	138,300
Up to 14% of population may require outpatient visits	65,000
Up to .5% of population may require hospitalization	2000
Up to .1% of population may die of flu-related causes	415*

\*Conservative estimate, based on "mild pandemic", mortality 0.3%; mortality due to 1918 Spanish flu 1%

6

# H1N1 Influenza Vaccine

- **Formulations**
  - Injection (single-dose, multi-dose; +/- thimerosal)
  - Live, attenuated nasal mist
- Nasal vaccine available now; others late October or early November?
- **1 dose** likely for healthy adults
- **2 doses** for kids < 10 years old
  - 4 weeks apart will be needed
- Vaccine itself will be *free* for all recipients



7

## H1N1 Vaccine Target Groups

Priority Group	Rationale	Est. LB Volume 2009-10
Pregnant women	↑ risk for complications; can ↓ risk to infants who are vaccine ineligible	9,000
Caregivers/Household contacts of infants < 6 months old	'cocoon' infants at ↑ risk for complications, are vaccine ineligible	13,500
All 6 months – 24 years old	Highest rates of illness	120,000
Non-elderly (25-65 yrs) w/ hi risk med conditions	↑ risk for complications	75,000
Healthcare workers/EMS	Risk of spread to patients; absenteeism ↓ healthcare capacity	20,000

**TOTAL: about 240,000**

MMWR 2009

8

# Vaccine Safety

- ✓ Protects against infection (but not 100%)
- ✓ Lessens symptoms if infected
- ✓ Prevents hospitalizations and deaths

- ✓ ?? 1/million GBS\*
- ✓ Sore arm, body aches

Benefits

Risks



\*Guillain-Barre Syndrome (GBS) is a rare condition in which the body's immune system attacks the nervous system, causing paralysis that can last for weeks to months but is completely reversible in the majority of people affected

9

# Vaccine Distribution Plans

- Private providers/Retail Pharmacies/Medical Groups
  - Must register to offer vaccine (<http://www.calpanflu.org>)
  - >170 providers in Long Beach registered; currently ~10 have nasal vaccine
- School-based mass vaccinations
  - LBUUSD (Middle, High Schools during school)
  - After school clinics (Grades K-5, Pre-schools, Private & Parochial schools)
  - CSULB and LBCC
- Mass vaccination clinics for the public
  - Convention center
  - Jordan High School
  - Drive thru clinic at Vet's Stadium
  - ? CSULB campus
- Hospitals handle their own distribution for their HCW

10

## Antivirals

- Strategic National Stockpile (SNS) deployed in May
- Working with LA County to develop protocol for distribution of antivirals to community clinics to be available for uninsured individuals
- Hospitals will have access to more antivirals through healthcare Preparedness Program (HPP)

11

Questions?

12