Public Health and Zika Virus

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U.S. Numbers

- Locally acquired vector-borne: 0
- Total: 544
  - Pregnant: 157
  - Sexually transmitted: 10
  - Guillain–Barré syndrome: 1
- California: 49 Total

Florida, New York, California
CDC’s U.S. Pregnancy Registry

- Asymptomatic + Symptomatic
- Track outcomes
- Track infant development
- Long term health effects
Sexual Transmission

- ALL SYMPTOMATIC
  - (so far)
- Male to Female
  - Vaginal
  - Oral
  - Anal
- Male to Male
  - Anal
- Female to Female?
- Female to Male?
How long does Zika virus remain infectious in semen?

- 62 days (1 case)
- CDC call for cases
- 9 months?
- Current recommendations
  - Condoms/ Abstinence
- New push to test male returned travelers
Interesting Public Health Side Effects

- Contraceptives in Catholic culture
- The Pope
- Pregnancy terminations
- Condom shortage
- Will other STD rates drop?
- Direct Relief supplies
Zika Testing: The Latest

- Evolving on a weekly basis
- PCR
  - Blood: Must be viremic (7 days)
  - Urine (21 days) – BETTER THAN BLOOD
  - Other fluids
- IgM
  - Blood (2–12 weeks)
- State, CDC
- LA County
- Commercial tests (future?)

- IgM cross-reactivity
  - Dengue
  - Chikungunya
  - CDC plague reduction assay (PRNT)
  - 3 week results
Aedes in California: The Role of Vector Control Dept.

Aedes aegypti and Aedes albopictus Mosquitoes
Detection Sites in California

Updated weekly on Fridays as new infestations are detected

- Aedes aegypti
- Aedes albopictus

*Unincorporated Census-Designated Places
NASA Helps Forecast Zika in July 2016
Who is in charge here?