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The Buzz on Zika: and Ultrasound of the CNS

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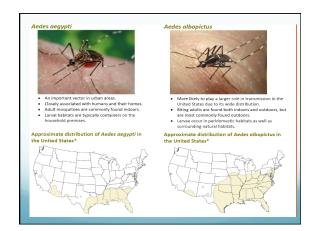
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The Buzz on Zika: and Ultrasound of the CNS





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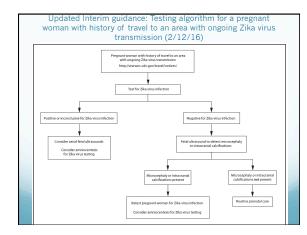
Aedes mosquitoes farther north?

- Recent report demonstrated population persistence of Aedes aegypti mosquitoes in Capitol Hill region of Washington, DC
 - Typically thrives no farther north than Alabama
- Authors suggest a resident DC mosquito population, likely maintained during winter months in subterranean habitat that facilitates year-round survival (subways, etc.)
 - Small population, chances of human transmission low
 - Still, DC has high concentration of global travelers so potential exists for native transmission

Lima A, et al. Am J Trop Med Hygiene 2016; 94: 231-5

Ultrasound surveillance

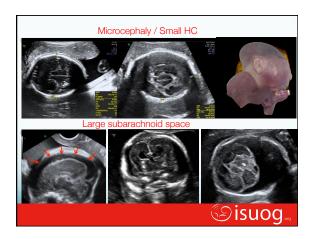
- Microcephaly difficult to diagnose before 22 weeks
 - If exposure early (esp. if symptomatic), could potentially see intracranial findings short of microcephaly before 20-22 weeks: evolving spectrum of disease
 - Using CMV as model, likely need at least 6 weeks post exposure to see possible impact on u/s
- Current guidelines not prescriptive
- If Zika serology negative and reasonably-timed post-exposure ultrasound is normal, then routine surveillance is appropriate





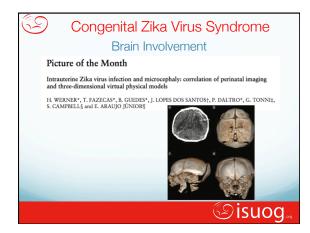
What are the correct planes to evaluate the CNS?

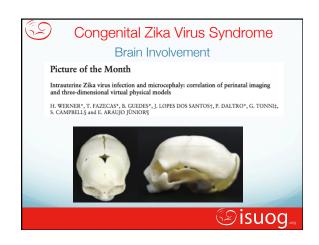
- 1. "I am not sure that I can answer This question due to the perceived difficulty in performing the US examinations in these patients due to the small size of the fontanels/sutures."
- 2. "Ideally you need to obtain the 3 axial planes as described in the ISUOG guidelines plus 4 coronals and 3-5 sagittals. It will be extremely difficult but not impossible to miss a significant finding this way."
- "Personally and according to my own experience and after observing my own team missing findings in patients with CMV, I think that more important that the planes is to know exactly what to look for and where to find it."
- Gustavo Malinger MD Sept 28 2016





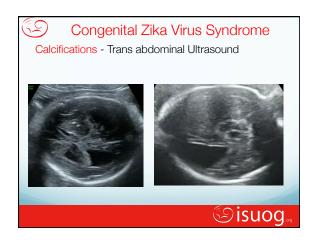






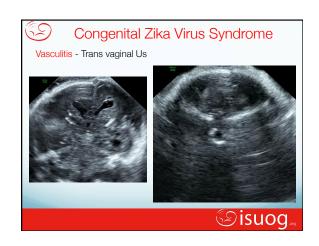




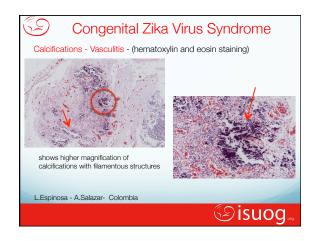


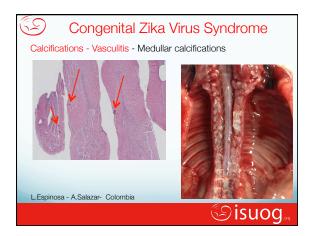


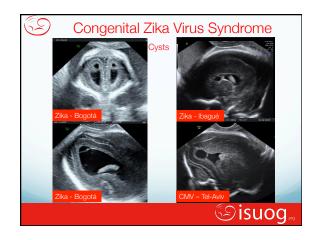


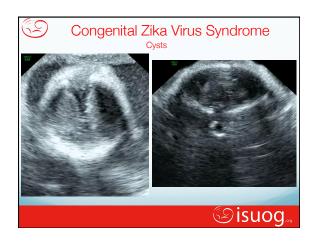




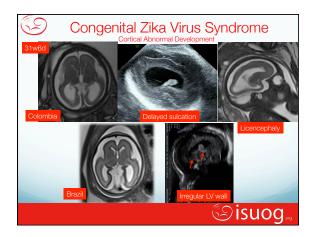


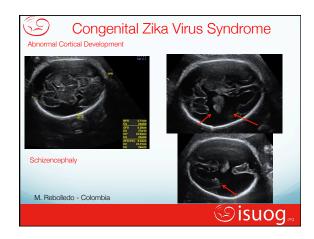






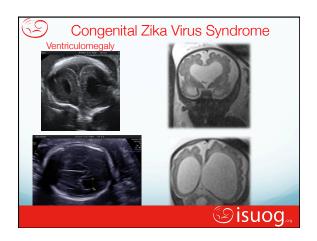






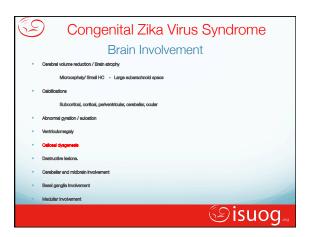


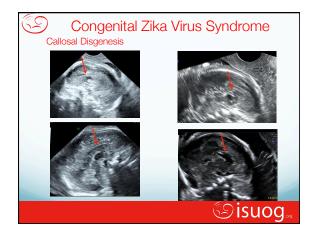




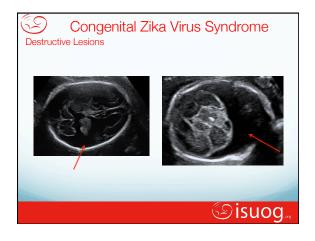


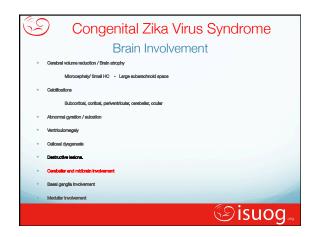


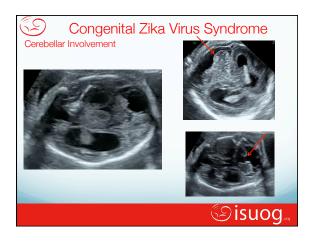


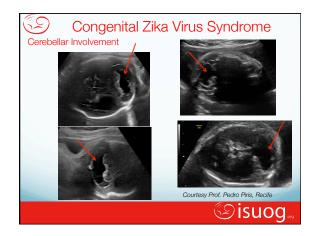




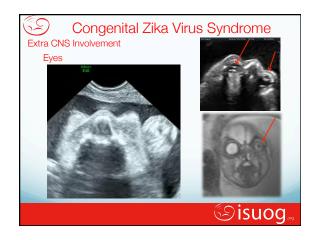




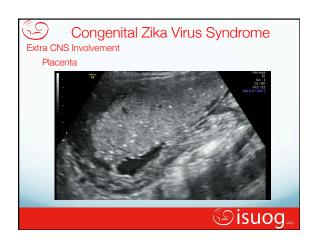


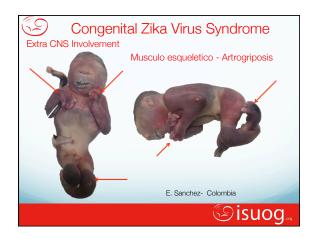


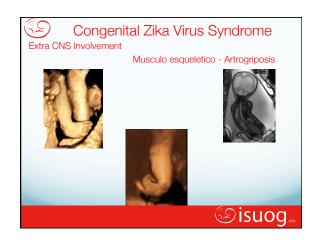


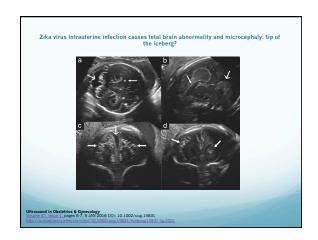




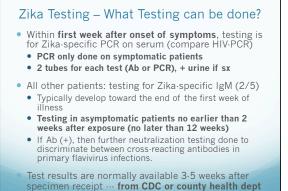














New Zika Threat to Infants: Late-Onset Microcephaly WebMD Health News, Brenda Goodman, Au

• CDC researchers reported seeing late-onset microcephaly among 1,200 pregnancies in Brazilian women infected with Zika virus during the third trimester

WHO Emergency Committee on Zika and microcephaly 9/1/2016

- 4th meeting of the Emergency Committee convened on regarding microcephaly, other neurological disorders and Zika virus
 - Briefing on Temporary Recommendations
 - Updated on situation during/after the Olympic Games held in Brazile

 - Update on Zika virus geographic spread
 Natural history, epidemiology, microcephaly and other neonatal complications associated with Zika virus, Guillain-Barré syndrome
 - Current knowledge on sexual transmission of Zika