





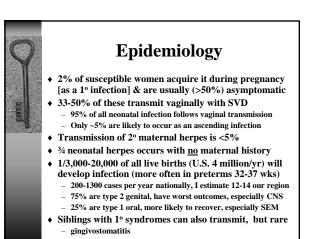
## Approach, setting the tone

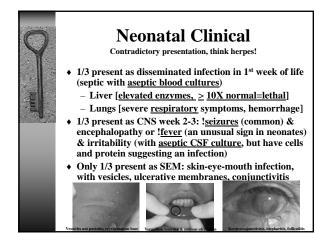
+"White man fool Indian once, shame on white man"

• White man fool Indian twice , shame on Indian", Grandpa Guenther from Iowa when there *still were* plains Indians – *ie*, don't get fooled twice by herpes

 $\bullet$  Herpes knows more Indian tricks than the Indians did

◆*EG*, *Routine* Hot Babe: 16 day newborn from ER presented febrile, R/O sepsis, routine cultures sent, given 1<sup>st</sup> dose antibiotics (Amp & gent or cef) for 3 day rule-out sepsis; consider herpes, ask lab to add CSF.PCR, & send NP & rectal swabs for virus, ask Mom for her history of genital lesions <u>and</u> for her OB's name or Delivery hospital, check CSF protein & cells yourself, check CBC for platelets & watch for seizures, consider LFT's







### Neonatal Pearl

Thinking !sepsis, !sepsis, sepsis! may be wrong!

- Think missed heart disease (HPLHS with ductal closure, really big acidosis)
- Think metabolic disease (low platelets)
- Think adrenal hyperplasia (shock with hyperkalemia)
- THINK HERPES (with all of these signs!)
  - Big acidosis
  - Thrombocytopenia
  - Shock with hyperkalemia
- Do as I say, not as I do slide!

Think sepsis, heart, metabolic, adrenal, & herpes



## **The Mother**

The most often omitted information is the history of a mother with genital lesions!

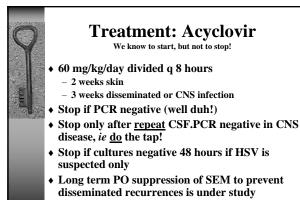
- Might be 1º infection
  - Most often history of other STD's
  - Ask for maternal <u>glvcoprotein B</u> antibody titers <u>and type</u>
    If lacking, it's likely a 1° infection, high risk of transmission to baby >50%, type2 genital, and likely disseminated or CNS virulence at 1 or 2
    - >50%, type2 genital, and likely disseminated or CNS virulence at 1 or 2 weeks of life
- Might be 2° recurrent infection
  - Maternal antibody titer present indicating more likely recurrence with much lower <5% risk transmission, +/- prophylaxis</li>
- Might not be known and baby has skin lesions at birth
  SEM unusual until later in the infection Might be 2° infection in Mom
- C-section <4-6 hour ROM if new 1<sup>st</sup> lesions, no scalp clips if vaginal delivery, conundrum if premature ROM or labor with lesions, consider C-section &/or acyclovir prophylaxis for mother

Do as I say, not as I do!

### Work-up

Think !culture, !culture, cultures!

- Culture vessicles (duh!)
- Mouth and NP and eye, rectal and stool and ETT if intubated (HSV pneumonia with RDS)
- CSF (send PCR, duh!)
   CT/MRI/<u>EEG</u>
- Blood (send for culture and PCR)
- Obtain surface cultures >12-24 hours <u>after</u> birth in SVD asymptomatic baby of mother with genital lesions
- CBC/platelets, liver enzymes (duh!)
- Neonatal titers likely irrelevant, my opinion



- Ophthalmologic herpes add vidarabine 3%
- drops



# Take home

#### Do as I say, not as I do!

- <u>Do</u> the tap, send the PCR if you think of it, send CSF culture for virus too
- <u>Send cultures</u> NP & REC cultures at the very least if not sure, but <u>only after</u> 24 hours from birth; if <u>missed tap</u>, culture everything!
   <u>Ask for maternal history</u>: Mom <u>&</u> her OB
- Acyclovir is not like an Amp & gent reflex, start if dying septic or truly seizing encephalitic, or any culture is HSV+ [Pediatrics 2002, 108:223]
- Stop acyclovir if HSV cultures negative 48 hours in disease that's only suspected
- Known 2° maternal lesions may merit cultures but not knee-jerk empiric treatment for 14 days