Socrative Room

ABX2018

Clinical Scenario

12yo M with chronic kidney disease presenting with fever, headache, photophobia, nausea, and neck stiffness.

T	HR	RR	BP	SpO_2
39.1	142	27	113/68	99%

Physical Exam

Well-developed male in moderate distress. GCS 15. +Pain with concurrent knee extension and hip flexion. +Knee flexion upon passive chin-to-chest while lying supine. CTAB. Cap refill 3 seconds. Soft, non-tender abdomen. No CVA tenderness. No rash or jaundice.

Workup

CSF: nucleated cells 35, PMN 90%, RBC 1, glucose 37, protein 48

Meningoencephalitis PCR panel & BCx: pending

Of the following, the most appropriate management of this patient with bacterial meningitis is:

A. Ceftriaxone + vanc for unstable VS

B. Ceftriaxone + vanc due to increased risk of pneumococcal disease

C. Ceftriaxone alone for stable VS

D. Observe without abx until ME panel returns

JUNE 22

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Of the following, the most appropriate management of this patient with bacterial meningitis is:

A. ~~Ceftriaxone + vanc for unstable VS~~

False. Both VS and exam reveal relatively stable patient.

B. Ceftriaxone + vanc due to increased risk of pneumococcal disease

C. ~~Ceftriaxone alone for stable VS~~

Both partially (C) and untreated (D) bacterial meningitis meningitis puts this patient at significant risk of morbidity and mortality.

D. ~~Observe without abx until ME panel returns~~

Covers the two most common causes of bacterial meningitis: S. pneumoniae and N. meningitidis. 20-25% of kids with pneumococcal meningitis have predisposing factors like hx of invasive CNS process (trauma, cochlear implants, VP shunt) and/or immunodeficiency (HIV, asplenia, CKD, sickle cell). Adding vancomycin to cover strepto-coccal strains that are NOT susceptible to ceftriaxone is especially important in these high risk patients.

Bugs & Drugs Rapid Review

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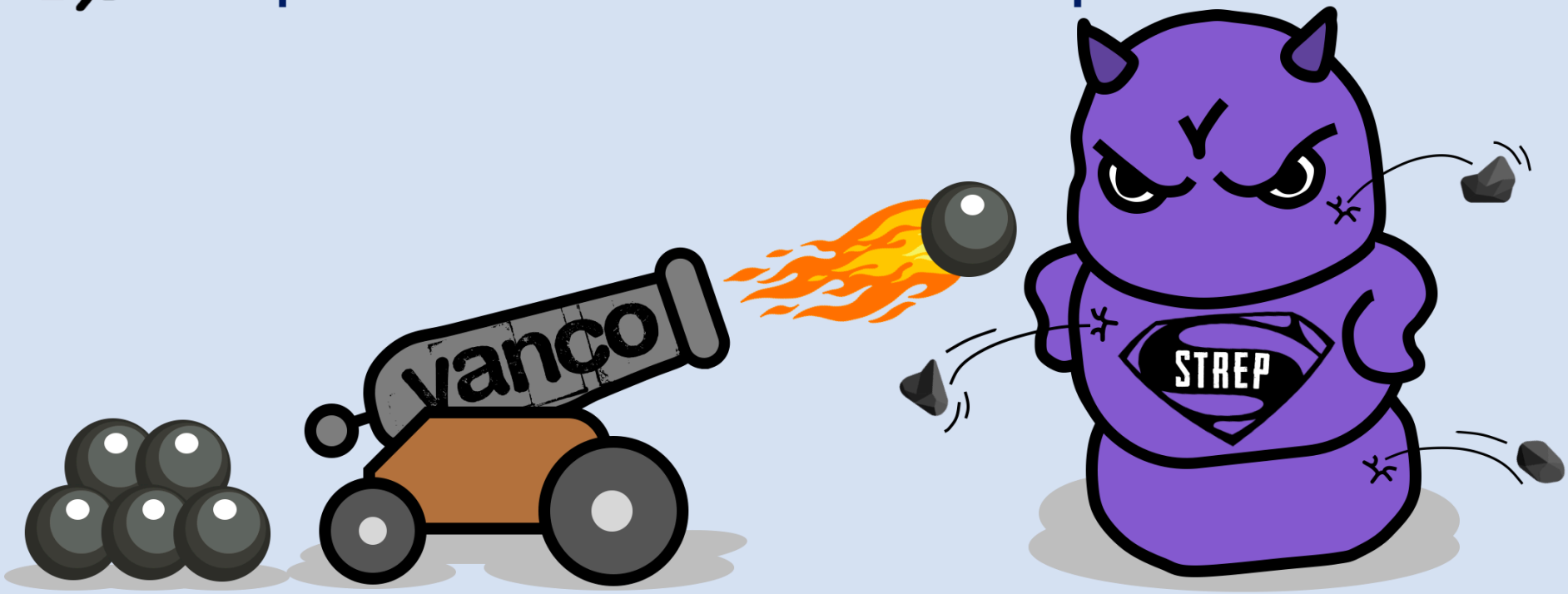
℞

Empiric treatment of meningitis requires vancomycin to cover pneumococcal strains that are not susceptible to ceftriaxone.



antibiotic czar — SIGNATURE

06-22-2018 — DATE

Mann et al 2016 PMID: 19047432. Erdem et al 2014 PMID: 24211227.