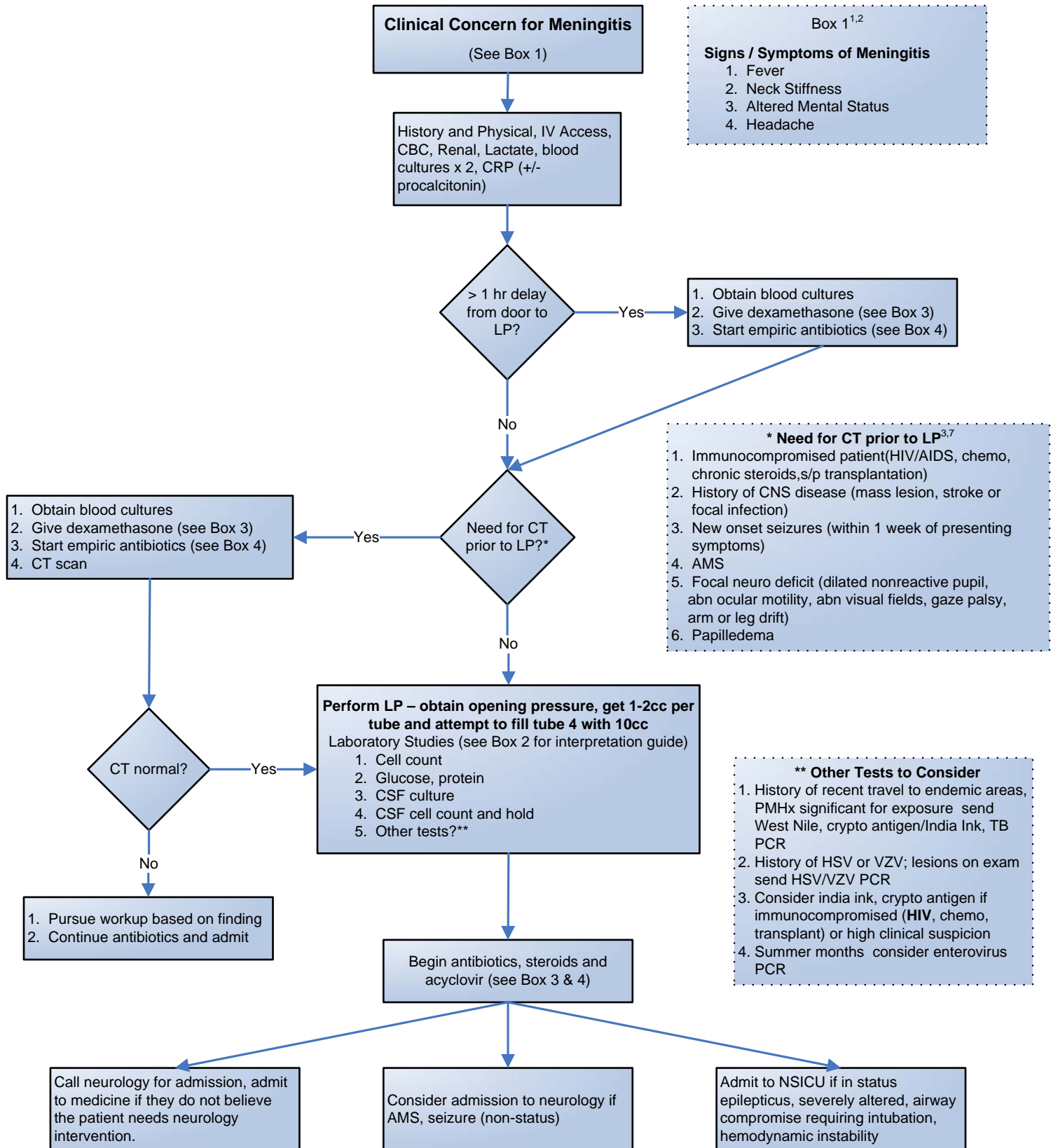


# EmergencyKT: Meningitis



## Box 2<sup>5</sup>: CSF Interpretation

Typical Values in various CNS infections\*

Index	Normal	Bacterial	Viral	Fungal	TB
WBC/mcl	<5	>1,000 (100-10,000)	5-1000	<1000	5-1000
Differential	<15% PMNs	>80% PMNs	<15% PMNs (>50% lymphs)	>50% lymphs	>80% lymphs
Glucose (mg/dL)	45-65	reduced	normal	reduced	<40
CSF:Blood glucose	0.6	<0.4	normal	reduced	reduced
Protein (mg/dL)	20-45	>250 (100-500)	30-150	40-150	>50
Opening Pressure (cm/H2O)	<20	elevated	normal or elevated	elevated	variable

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 UpToDate. Cerebrospinal fluid: Physiology and utility of an examination in disease states. Table CSF analysis in CNS infections.

\*significant overlap in findings can occur between various etiologies of meningitis

**Box 3<sup>6</sup>: Steroids**

Steroids: to be given prior to or in concomitant with first antibiotic

**Dexamethasone: 0.15 mg/kg or 10mg q6hr**

## Box 4<sup>7</sup>: Antibiotics

Neonates (birth-1m)	Children (1m-2y)	Healthy Adults (2y-50y)	Elderly (>50y)	Immunocompromised	Nosocomial Infections	Healthy Adults – Beta-Lactam Allergy
Ampicillin 50mg/kg q8hr + Cefotaxime 50mg/kg q12hr Or Gentamycin 5mg/kg qday	Vancomycin 15mg/kg q12hr + Cefotaxime 50mg/kg q12hr	Vancomycin 15-20 mg/kg q8-12hrs + Ceftriaxone 2g q12-24hr or Cefotaxime 2g q6hr	Vancomycin 15-20mg/kg q8-12hr + Ampicillin 2g q4hr + Ceftriaxone 2g q12-24hr or Cefotaxime 2g q6hr	Vancomycin 15-20mg/kg q8-12hr + Ampicillin 2g q4hr + Cefepime 2g q8hr or Meropenem 2g q8hr	Vancomycin 15-20mg/kg q8-12hr + Cefepime 2g q8hr or Ceftazidime 2g q8hr or Meropenem 2g q8hr	Vancomycin 15-20mg/kg q8-12hr + Meropenem 2g q8hr
Acyclovir 20mg/kg q8hr	Acyclovir 20mg/kg q8hr (0-3m)  10-5mg/kg (>3m-12y)	Acyclovir 10mg/kg q8hr (ideal body weight)	Acyclovir 10mg/kg q8hr (ideal body weight)	Acyclovir 10mg/kg q8hr (ideal body weight)		Acyclovir 10mg/kg q8hr (ideal body weight)

Microorganism	Recommended therapy	Alternative therapies
S. pneumonia	Vancomycin+3 <sup>rd</sup> generation cephalosporin	Meropenem, fluoroquinolone
N. meningitides	3 <sup>rd</sup> generation cephalosporin	Penicillin G, ampicillin, chloramphenicol, aztreonam, fluoroquinolone
L. monocytogenes	Ampicillin, penicillin G	Bactrim, meropenem
S. Agalactiae	Ampicillin, penicillin G	3 <sup>rd</sup> generation cephalosporin
H. influenza	3 <sup>rd</sup> generation cephalosporin	Chloramphenicol, cefepime, meropenem, fluoroquinolone
E. Coli	3 <sup>rd</sup> generation cephalosporin	Cefepime, meropenem, aztreonam, Bactrim, fluoroquinolone

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