

Cerebrospinal Fluid Analysis

	Neutrophilic (PMN predominant)	Lymphocytic (monocyte predominant)
<p>Low Glucose (40% of serum ½ hour before or simultaneous) (usually < 2.2 if not DM)</p>	<p>Bacterial meningitis</p> <ul style="list-style-type: none"> • Pneumococcus • Meningococcus • Haemophilus • Streptococcus • Listeria <p>Ruptured brain abscess Amebic meningoencephalitis DIAM (rarely)</p>	<p>Tumour</p> <ul style="list-style-type: none"> • Meningeal carcinomatosis <p>Infection</p> <ul style="list-style-type: none"> • TB meningitis • Fungal meningitis @ • Viral meningitis (usually N glucose) Occasionally <p>Autoimmune</p> <ul style="list-style-type: none"> • Sarcoid • Wegener's granulomatosis
<p>Normal Glucose</p>	<p>Drug-induced Aseptic Meningitis (DIAM) 75%</p> <ul style="list-style-type: none"> • NSAIDs • Antibiotics • IVIG • OKT3 Monoclonal antibodies <p>Subarachnoid bleed (recent)</p>	<p>Bacteria</p> <ul style="list-style-type: none"> • Listeria meningitis <p>Infectious Virions</p> <ul style="list-style-type: none"> • Viral meningitis* <p>Parameningeal infection**</p> <p>Atypicals</p> <ul style="list-style-type: none"> • Syphilis meningitis • Lyme meningitis • Mycoplasma meningitis <p>Parasitic meningitis</p> <p>CNS vasculitis Lupus cerebritis and vasculitis Acute demyelinating encephalomyelitis Medications - DIAM (25%) Sarcoid (usually low glucose)</p>

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Parameningeal infection **AT SERB**

Abscess

- Subdural
- Epidural (spinal)
- Retropharyngeal
- Brain

Thrombophlebitis (cerebral)

Fungi @ **ABC HCC**

- Aspergillus* species
- Blastomyces dermatitidis*
- Candida* species
- Histoplasma capsulatum*
- Coccidioides immitis*
- Cryptococcus neoformans*

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Viral **HAVE HILA**

Herpes

- HSV 1 and 2
- Varicella Zoster
- Epstein Bar

Adenovirus

Various

Enteroviruses

- Polio
- Coxsackievirus
- Echovirus

HIV

Influenza A and B

LCMV

Arbovirus (West Nile)