

FINDINGS	SIGNIFICANCE
Pressure	
More than 20 cm H ₂ O	Indicates increased spinal pressure, most often from bleeding, tumors, or infection within the CNS
Color/Appearance	
Clear, colorless	Normal
Pink-red to orange	Red blood cells present
Yellow	Bilirubin present owing to hemolysis of red blood cells; possible causes include subarachnoid hemorrhage, jaundice, increased cerebrospinal fluid (CSF) protein, hyperanemia, or hemoglobinemia
Brown	Methemoglobin present, indicating previous meningeal hemorrhage
Unclear or hazy	Cell count is elevated
Cells	
0-5 small lymphocytes/mm ³	Normal
More than 5 lymphocytes/mm ³	Reaction to infection, tumor, chemical substance, or blood
Protein	
Total	
15-45 mg/dL (up to 70 mg/dL in older adults)	Normal
45-100 mg/dL	Paraventricular tumor
50-200 mg/dL	Viral infection
More than 500 mg/dL	Bacterial infection, Guillain-Barre syndrome
Less than 15 mg/dL	Meningitis, pseudotumor cerebri, hyperthyroidism, normal finding after lumbar puncture
Immunoglobulin G (IgG, the most important protein)	
3%-12% of total protein	Normal
More than 12% of total protein	Multiple sclerosis, neurosyphilis, or viral infection
Albumin:Globulin Ratio	
8 : 1	Normal
Glucose	
50-75 mg/dL, or 60%-70% of blood glucose level	Normal
Less than 50 mg/dL (usually accompanied by the presence of pathologic organisms)	Bacterial, fungal, or viral meningitis; central nervous system (CNS) leukemia; or cancer
Other Characteristics	
Lactic Acid	
10-25 mg/dL	Normal
More than 25 mg/dL	Systemic acidosis or increased CSF glucose metabolism
Glutamine	
6-15 mg/dL	Normal
More than 15 mg/dL	Hepatic coma or cirrhosis of liver
Lactate Dehydrogenase	
10% of serum level or 2.0-2.2 units/mL	Normal
More than 10% of serum level	Bacterial meningitis, inflammatory diseases of CNS

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the main pathway for info connecting the brain to the peripheral nervous system. 31 paired nerves: 8 cervical, 12 thoracic, 5 lumbar, 5 sacral, and 1 coccygeal. 5 main regions: skull, cervical vertebrae, thoracic vertebrae, lumbar vertebrae, and sacral vertebrae (sacrum). Contained within a system of fluid filled cavities called ventricles.

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