

Meningitis

EVIDENCE REPOSITORIES

Evidence repositories are collections of best available resources and evidence (clinical guidelines, peer reviewed literature, systematic reviews, etc.), collated by our knowledge synthesis team and content advisors. This evidence repository is not intended to be an exhaustive list of resources for a topic, but rather a curated list of current, evidence-based resources, based on expert consensus of relevance and usability for a general emergency department setting. We search databases (Cochrane Library, PubMed, TRIP Database) and web search engines (Google, Google Scholar) to locate evidence. Additionally, hospital websites are browsed for guidance documents, such as clinical practice guidelines (CPG) for healthcare professionals.

Every effort is made to identify resources that are open access (i.e. publicly available, free of charge, not requiring a subscription).

More information about the creation of our evidence repositories can be found at <https://pubmed.ncbi.nlm.nih.gov/28537762/>

CONTENT TEAM

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TREKK developed resources for healthcare providers and parents & families can be found [here](#).

Bacterial Meningitis

Clinical Guidelines

1. The Royal Children's Hospital Melbourne. [Meningitis and encephalitis](#). The Royal Children's Hospital Melbourne. 2020.
2. The Royal Children's Hospital Melbourne. [Lumbar puncture](#). The Royal Children's Hospital Melbourne. 2020.
3. The Royal Children's Hospital Melbourne. [CSF interpretation](#). The Royal Children's Hospital Melbourne. 2019.
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Systematic Reviews

1. April MD, Long B, Koyfman A. [Emergency medicine myths: Computed tomography of the head prior to lumbar puncture in adults with suspected bacterial meningitis - due diligence or antiquated practice?](#) J Emerg Med. 2017;53(3):313-21.
2. Maconochie IK, Bhaumik S. [Fluid therapy for acute bacterial meningitis](#). Cochrane Database Syst Rev. 2016;11(11):Cd004786.
3. Dorsett M, Liang SY. [Diagnosis and treatment of central nervous system infections in the emergency department](#). Emerg Med Clin North Am. 2016;34(4):917-42.
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9. Sakushima K, Hayashino Y, Kawaguchi T, et al. [Diagnostic accuracy of cerebrospinal fluid lactate for differentiating bacterial meningitis from aseptic meningitis: A meta-analysis](#). J Infect. 2011;62(4):255-62.
10. Curtis S, Stobart K, Vandermeer B, et al. [Clinical features suggestive of meningitis in children: A systematic review](#)

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[of prospective data](#). Pediatrics. 2010;126(5):952-60.

11. Joffe AR. [Lumbar puncture and brain herniation in acute bacterial meningitis: A review](#). J Intensive Care Med. 2007;22(4):194-207.
12. Fox JL. [In children with bacterial meningitis, does the addition of dexamethasone to an antibiotic treatment regimen result in a better clinical outcome than the antibiotic regimen alone?: Part A: Evidence-based answer and summary](#). Paediatr Child Health. 2006;11(1):33-4.

Key Studies

1. Glimåker M, Sjölin J, Åkesson S, et al. [Lumbar puncture performed promptly or after neuroimaging in acute bacterial meningitis in adults: A prospective national cohort study evaluating different guidelines](#). Clin Infect Dis. 2018;66(3):321-8.
2. Costerus JM, Brouwer MC, Sprengers MES, et al. [Cranial computed tomography, lumbar puncture, and clinical deterioration in bacterial meningitis: A nationwide cohort study](#). Clin Infect Dis. 2018;67(6):920-6.
3. Salazar L, Hasbun R. [Cranial imaging before lumbar puncture in adults with community-acquired meningitis: Clinical utility and adherence to the infectious disease's society of America guidelines](#). Clin Infect Dis. 2017;64(12):1657-62.
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Lyme Disease

Clinical Guidelines

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Key Studies

1. Cohn KA, Thompson AD, Shah SS, et al. [Validation of a clinical prediction rule to distinguish Lyme meningitis from aseptic meningitis.](#) Pediatrics. 2012;129(1):e46-53.
2. Garro AC, Rutman M, Simonsen K, et al. [Prospective validation of a clinical prediction model for Lyme meningitis in children.](#) Pediatrics. 2009;123(5):e829-34.
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Viral Meningitis

Clinical Guidelines

1. The Royal Children's Hospital Melbourne. [Meningitis and encephalitis](#). 2020.
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Overviews

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1. Dorsett M, Liang SY. [Diagnosis and treatment of central nervous system infections in the emergency department](#). Emerg Med Clin North Am. 2016;34(4):917-42.
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