

Meningitis in Infants and Children

Amy Levine

REFERENCES

- Swanson D. Meningitis. *Pediatr Rev* 36: 514, 2015. [PMID: 26628732]
- Janowski AB, Newland J: From the microbiome to the central nervous system, an update on the epidemiology and pathogenesis of bacterial meningitis in childhood. *F1000Research* 6: F1000 Faculty Rev-86, 2017. [PMID: 28184287]
- Crum-Cianflone N, Sullivan E: Meningococcal vaccinations. *Inf Dis Ther* 5: 89, 2016. [PMID: 27086142]
- Rudolph H, Schrotten H, Tenenbaum T: Enterovirus infections of the central nervous system in children. *Pediatr Inf Dis Jour* 35: 567, 2016. [PMID: 26862675]
- Pinheiro TJ, Guimaraes LF, Silva MTT, Soares CN: Neurological manifestations of chikungunya and Zika infections. *Arg Neuropsiquiatr* 74: 937, 2016. [PMID: 27901259]
- Sawanyawisuth K, Chotmongkol V: Eosinophilic meningitis. *Handb Clin Neurol* 114: 207, 2013. [PMID: 23829911]
- Curtis S, Stobart K, Vandermeer B, et al: Clinical features suggestive of meningitis in children: a systematic review of prospective data. *Pediatrics* 126: 952, 2010. [PMID: 20974781]
- Best J, Hughes S: Evidence behind the WHO guidelines: hospital care for children—what are the useful clinical features of bacterial meningitis found in infants and children? *J Trop Pediatr* 54: 83, 2008. [PMID: 18292101]
- Hayes EB, O'Leary DR: West Nile Virus infection: a pediatric perspective. *Pediatrics* 113: 1375, 2004. [PMID: 15121956]
- Greninger AL, Naccache SN, Messacar K, et al: A novel outbreak enterovirus D68 strain associated with acute flaccid myelitis cases in the USA (2012–2014): a retrospective cohort study. *Lancet Infect Dis* 15: 671, 2015. [PMID: 25837569]
- Harris JB, Homes AP: Neonatal herpes simplex viral infections and acyclovir: an update. *J Pediatr Pharmacol Ther* 22: 88, 2017. [PMID: 28469532]
- Vallejo JG, Cain AN, Mason EO, et al: *Staphylococcus aureus* central nervous system infections in children. *Ped Inf Dis J* 36: 947, 2017. [PMID: 28399057]
- Biondi E, Evans R, Mischler M, et al: Epidemiology of bacteremia in febrile infants in the United States. *Pediatrics* 132: 990, 2013. [PMID: 24218461]
- Swanson D. Meningitis. *Pediatr Rev* 36: 514, 2015. [PMID: 26628732]
- Ray P, Badarou-Accossi G, Viallon A, et al: Accuracy of the cerebrospinal fluid results to differentiate bacterial from non bacterial meningitis in case of negative gram-stained smear. *Am J Emerg Med* 25: 179, 2007. [PMID: 17276808]
- Dubos F, Lamotte B, Bibi-Triki F, et al: Clinical decision rules to distinguish between bacterial and aseptic meningitis. *Arch Dis Child* 91: 647, 2006. [PMID: 16595647]
- Dubos F, Korczowski B, Aygun DA, et al: Distinguishing between bacterial and aseptic meningitis in children: European comparison of two clinical decision rules. *Arch Dis Child* 95: 963, 2010. [PMID: 20660523]
- Dubos F, De la Rocque F, Levy C, et al: Sensitivity of the bacterial meningitis score in 889 children with bacterial meningitis. *J Pediatr* 152: 378, 2008. [PMID: 18280844]
- Henry BM, Roy J, Ramakrishnan PK, et al: Procalcitonin as a serum biomarker for differentiation of bacterial meningitis from viral meningitis in children: evidence from a meta-analysis. *Clin Pediatr* 55: 749, 2016. [PMID: 26378091]
- Van den Bruel A, Thompson MJ, Haj-Hassan T, et al: Diagnostic value of laboratory tests in identifying serious infections in febrile children: systematic review. *BMJ* 342, 2011. [PMID: 21653621]
- Messacar K, Breazeale G, Robinson CC, Dominguez SR: Potential impact of the film array meningitis encephalitis panel in children with suspected central nervous system infections. *Diagn Microbiol Infect Dis* 86: 118, 2016. [PMID: 27342782]
- Javali M, Acharya P, Mehta A, et al: Use of multiplex PCR based molecular diagnostics in diagnosis of suspected CNS infections in tertiary care setting: a retrospective study. *Clin Neurol Neurosurg* 161: 110, 2017. [PMID: 28866263]
- Soysal A, Toprak DG, Turkoglu S, Bakir M: Evaluation of the line probe assay for the rapid detection of bacterial meningitis pathogens in cerebrospinal fluid samples from children. *BMC Microbiol* 17: 14, 2017. [PMID: 28077083]
- Brouwer MC, Tunkel AR, van de Beek D: Epidemiology, diagnosis and antimicrobial treatment of acute bacterial meningitis. *Clin Microbiol Rev* 23: 467, 2010. [PMID: 20610819]
- Lebel MH, Freij BJ, Syrogiannopoulos GA, et al: Dexamethasone therapy for bacterial meningitis. Results of two double-blind, placebo-controlled trials. *N Engl J Med* 391: 964, 1988. [PMID: 3047581]
- Lebel MH, Hoyt MH, Waagner DC, et al: Magnetic resonance imaging and dexamethasone therapy for bacterial meningitis. *Arch J Dis Child* 143: 301, 1989. [PMID: 2644815]
- Brouwer MC, McIntyre P, Prasad K, van de Beek D: Corticosteroids for acute bacterial meningitis. *Cochrane Database Syst Rev* 9: CD004405, 2015. [PMID: 26362566]
- AAP Committee on Infectious Diseases: Dexamethasone therapy for bacterial meningitis in infants and children. *Pediatrics* 86: 130, 1990. [PMID: 2193301]
- Baraff LJ, Lee SI, Schriger DL: Outcomes of bacterial meningitis in children: a meta-analysis. *Pediatr Inf Dis J* 12: 389, 1993. [PMID: 8327300]
- Chandran A, Herbert H, Misurski D, Santosham M: Long-term sequelae after bacterial meningitis. An underappreciated problem. *Pediatr Inf Dis J* 30: 3, 2011. [PMID: 20683377]
- De Jonge RCJ, van Furth AM, Wassenaar M, et al: Predicting sequelae and death after bacterial meningitis in childhood: a systematic review of prognostic studies. *BMC Infect Dis* 10: 232, 2010. [PMID: 20684796]
- McGirt MJ, Zaas A, Fuchs HE, et al: Risk factors for pediatric ventriculoperitoneal shunt infection and predictors of infectious pathogens. *Clin Inf Dis* 36: 858, 2003. [PMID: 12652386]
- Simpkins CJ: Ventriculoperitoneal shunt infections in patients with hydrocephalus. *Pediatr Nurs* 31: 457, 2005. [PMID: 16411537]
- Kanegaye JT, Soliemanzadeh P, Bradley JS: Lumbar puncture in pediatric bacterial meningitis: defining the time interval for recovery of cerebrospinal fluid pathogens after parenteral antibiotic pretreatment. *Pediatrics* 108: 1169, 2001. [PMID: 11694698]
- Nigrovic LE, Malley R, Macias CG, et al: Effect of antibiotic pretreatment on cerebrospinal fluid profiles of children with bacterial meningitis. *Pediatrics* 122: 726, 2008. [PMID: 18829794]
- <http://www.uptodate.com>. (Kaplan SL: Bacterial meningitis in children older than one month: treatment and prognosis. *UpToDate*; July 26, 2017.) Accessed November 25, 2017.
- Tunkel AR, Hartman BJ, Kaplan SL: Practice guidelines for the management of bacterial meningitis. *Clin Inf Dis* 39: 1267, 2004. [PMID: 15494903]
- Rubin LG, Papsin B, Committee on Infectious Diseases and Section on Otolaryngology–Head and Neck Surgery: Cochlear implants in children: surgical site infections and prevention and treatment of acute otitis media and meningitis. *Pediatrics* 126: 381, 2010. [PMID: 20660544]
- AAP Subcommittee on Febrile Seizures: Febrile seizures: guideline for the neurodiagnostic evaluation of the child with a simple febrile seizure. *Pediatrics* 127: 389, 2011. [PMID: 21285335]