

REFERENCES

Abdel Dayem HH (1988):

Serum and cerebrospinal fluid creatinephosphokinase isoenzyme BB in children with acute bacterial meningitis. Doctor Degree of Pediatrics Alexandria University, Alexandria (1988).

Adler SM, Denton RL (1975):

The erythrocyte sedimentation rate in the new born period. J Pediatr; 86; 942-8.

Ashour M, 1991:

The use of systemic corticosteroid as adjunctive therapy for acute bacterial meningitis. Thesis: Master Degree of Pediatrics, Alexandria University, Alex; 1991.

Astoor, Harold V and King (1969):

Practical clinical biochemistry 4th ed, New York, William

Behrman RE, Kliegman RM, Nelson WE, Vacughanuce, (1992):

Acute bacterial meningitis beyond the neornatal period, Nelson Textbook of Pediatrics Fourteenth Edition Philadelphia, London, Toronto, WB Saunders; 683-690.

Bell WE and McCormick WF, (1981):

Bacterial meningitis, general concepts and mangement, 2nd, ed. W.B. Saunders Comp. Philadelphia, 21-40.

Bell WE, McCormick WF (eds) (1981):

Neurologic infection in children. Philadlphia WB Saunders Co. 1981.

Beriman NS, Siegel SE, Nachum R, Lipsey A, (1976):

Cerebrospinal fluid endotoxin concentration in gram negative bacterial meningitis, J Pediatr, 88: 553-56.

Bernard H, (1984):

CSF and other body fluids. In: Clinical Diagnosis and Management. 17th edition. W.B. Saunders Company, London, 1979, 4

Bolus HN (1998):

Rapid diagnosis of bacterial meningitis. Master degree of Pediatric, Faculty of Benha, Zagazig Univeristy.

Bridger RC, 1986:

Diagnosis and treatment of bacterial meningitis, postgraduate Doctor (Middle East); 9(5): 282-287.

Briem HE, (1983):

Comparison between CSF concentrations of glucose, total proteins, chloride, lactate and total amino acids for the differential diagnosis of patients with meningitis. Scand J Infect Dis; (15): 277-79.

Brook I, Bricknell KS, Overturf GD, Finegold SM (1978):

Measurement of lactic acid in cerebrospinal fluid of patients with infections of the central nervous system. J Infect Dis 137: 384-90.

Campbell, AGM and McIntosh N, (1992):

Chavanet P, Bonnotte B, Guiguet M, Zeller V, Solary E, (1992):

High concentration of intrathecal interleukin-6 in human bacterial and nonbacterial meningitis. *J Infect Dis*, 166(2): 428-31.

Cherry JD, (1981):

Meningococcal disease. *Pediatric Diagnosis Treatment and Management. Pediatr Infect Dis J*, 13(1): 59-61.

Christie A (1987):

Acute bacterial or pyogenic meningitis In: *Infectious Diseases: Epidemiology and Clinical practice*. 4th edition, edited by Christie, A Churchill, Livingstone, 857-913.

Clarke D, Cost K (1983):

Use of serum C-reactive protein in differentiating septic from aseptic M in children. *J Ped* 102: 718-20.

Cochi SL, Fleming DW, Hightower AM, et al (1986):

Primary invasive *Haemophilus influenzae* type b disease; A

Coonrod JD, Rytel MW, (1977):

Determination of etiology of bacterial meningitis by counter immunoelectrophoresis. Lancet, I: 1154-8.

Cueras LE, Hart CA (1993):

Chemoprophylaxis of bacterial meningitis. J Antimicrobial therapy 31: 79-91.

Dagbjartsson A, Ludvigsson P (1987):

Bacterial meningitis: Diagnosis and initial antibiotic therapy. Ped Clin North Am 34: 219-230.

Dalton HP and Allison MJ (1968):

Modification of laboratory results by partial treatment of bacterial infections. Am J Clin Path 49: 410.

David D, Stork, William G and Bradley, (1992):

Textbook of Magnetic Resonance Imaging. Vol. 1, Second edition. Mosby Yearbook, 683-689.

Davis L (1992):

Kindred's meningitis and encephalitis. In: Conn's current therapy

References

Delozier JS, Auerbach PS, Tennesse N (1989):

The leukocyte esterase test for detection of cerebrospinal fluid leukocytosis and bacterial meningitis. *Ann Emerg Med* (18): 1191-8.

Douglos RG (1966):

The leukocyte response during viral respiratory illness in man. *Ann Intern Med*, 64: 521-30.

Dodge PR, Davis H, Feigin RD, Holmes JJ, Kaplan SL, et al (1984):

Prospective evaluation of hearing impairment as a sequelae of acute bacterial meningitis. *N England J Med*, 34: 869-879.

Donald PR, Malon CH, (1985):

Simultaneous determination of CSF glucose and blood glucose concentrain in diagnosis of bacterial meningitis. *J Ped*, 103: 413-415.

Dulkerian SJ, Kilpatrick L, Fein J et al, (1995):

References

Feigin RD (1992):

Listeriosis: Nelson Textbook 14th ed. edited by Victor, C.V. James, R., Richard, E et al, Published by Saunders Comp, 705.

Feigin RD and Shackelford PG (1973):

Value of repeated lumbar puncture in differential diagnosis of meningitis. N England J Med, 298: 571.

Feigin RD, Dodge PR (1973):

Bacterial meningitis: Newer concepts of pathophysiology and neurologic sequelae. Ped Clin North Am 23: 541.

Feigin RD, Shackelford PG (1988):

Value of aspect lumbar puncture in the differential diagnosis of meningitis. J Pediatr 88:

Feigin RD and Shearer WT (1987):

Bacterial meningitis beyond the neonatal period in Textbook of Pediatric Infectious Diseases. 2nd edition, edited by Feigin R and Cherry J. W.B. Saunders Company, 439-61.

Glimaker M, Samuelson A, Magnus L (1993):

Early diagnosis of enteroviral meningitis by detection of specific IgM antibodies with solid-phase reverse immunosorbent test and Mcapture. *EIA J Med Virol*, (36): 193-201.

Green Lee JE (1995):

Bacterial meningitis: Causes for concern. The research committee of the BSSI. *J Infect* 30: 89-94.

Greenlee JE (1990):

Approach to diagnosis of meningitis. CSF evaluation. *Infect Dis Clin North Am* 4: 583-598.

Grimwood K, Anderson VA, Bond L, et al (1995):

Adverse outcomes of bacterial meningitis in school-age survivors. *Pediatrics* 95: 646-656.

Hammamy HA, (1969):

Cerebrospinal meningitis in the Eastern Mediterranean region, *Epidemiological Review. J Egypt Pub Health Ass*, 44-48.

Hashim IA, Walsh A, Hart CA, Shenkin A, (1995):

Cerebrospinal fluid interleukin-6 and its diagnostic value in the investigation of meningitis. *Ann Clin Biochem* (32): 289-96.

Heckmann JG, Engelhardt A, Druschky et al (1996):

Urine test strips for CSF diagnosis of bacterial meningitis. *Med Clin* 91: 766-768.

Hill RB, Adams S, Gunn BA, Eberly BJ (1994):

The effect of nonclassic pediatric bacterial pathogens on the usefulness of the directigen latex agglutination test. *J Clinical Pathology* 101: 729-732.

Hristera L, Booy R, Bowler I, Wilkinson AR (1993):

Prospective surveillance of neonatal meningitis. *Arch Dis Child* 69: 14-18.

James K, Harison VC, (1993):

Prediction of morbidity in *haemophilus influenzae* meningitis. *Pediatrics* (59); 35-39.

References

Jravis CW, Saxena KM (1972):

Does prior antibiotic treatment hamper the diagnosis of acute bacterial meningitis. Clin Pediatr 11: 201-204.

Kaaresen PI, Flaegstad T (1995):

Prognostic factors in childhood bacterial infections. Acta Paediatr 84: 873-878.

Kalman J, Paulson O, Goitein M, Tamir I, (1983):

Cerebral perfusion pressure in central nervous system infection of infancy and childhood. J Pediatr 1983; 103: 40-43.

Kaplan SL, Cathin FI, Weaver T, (1985):

Clinical presentation, prognostic factors and diagnosis of bacterial meningitis. In Sande M, Smith AL, Root RK eds. Bacterial meningitis New York, Churchill Livingstone, 83-84.

Kleigman RM, Behrman RE, Richard E and Robert M, (1994):

Central nervous system infection In: Nelson essentials of Pediatrics. 2nd ed. WB Saunders Comp. London.

Klein J, Feigin R and McCracken G (1996):

References

Klein JO (1994):

Antimicrobiol R and Prevention of meningitis. *Pediatric Annals* 23: 76-81.

Kliegman RM, Feigin RD (1992):

Acute bacterial meningitis beyond the neonatal period. In: Behrman RE, Kliegman RM, Nelson WE, Vaughan VC (eds). *Nelson Textbook of Pediatrics*. 14th ed. Philadelphia. WB Saunders Co. pp: 683-691.

Klipatric ME, Girgis NI, Yassin MW, et al (1987):

Meningitis: Clinical and laboratory review of 100 patients. *J Hyg* (21): 216-219.

Knapp RG, Miller MC (eds) (1992):

Tests of statistical significance. In: *Clinical epidemiology and biostatistics*. Williams & Wilkins, Baltimore, Maryland. Pp: 209-231.

Knight JA, Dudek SA, Haymond RE (1981):

Early clinical diagnosis of bacterial meningitis. CSF glucose.

References

Loda FA, Coilier AM, Clezen WP (1975):

Occurrence of diplococcus pneumoniae in the upper respiratory tract of children. J Pediatr 87: 1087-1091.

Loughlin AM, Marchant CD, Lett SM (1995):

The changing epidemiology of invasive bacterial infections in Massachusetts Children, 1984 through 1991. Am J Public Health 85: 392-394.

Magarashi M, Gilmartin RC, Gerald B, Frank W, et al (1984):

Cerebral arteritis and bacterial meningitis. Arch Neurol 1984; 41: 531-35.

Mahmoud S, Abdou M, Mourad M, El Kanany H, (1990):

Auditory brain stem response (ABR) in children with acute bacterial meningitis. Alex J Pediatrics (4): 203-211.

Martin W (1983):

Rapid and reliable techniques for detection of bacterial meningitis. Am J Med (28): 119-23.

M... Narita M, Akutsuy, et al (1995):

References

Moxon ER, Ostrowp T, (1977):

Hemophilus infleunze meningitis in infant rats, a role of cateremia in pathogenesis of age dependant inflammatory responses in cerebrospinal fluid. J Inf Dis 135: 303-308.

Muller PD, Donald PR (1987):

Reagent strips in the evaluation of CSF glucose levels. Ann Trop Paed 7: 287-289.

Murphy TD, Pastor P et al (1988):

Declining incidence of Hib disease since introduction of vaccination. J.A.M.A., 269: 246-248.

Nachum R, Allan L and Strant E (1973):

Rapid detection of gram-negative bacterial meningitis by limulus lyuate test. N Engl J Med (289): 931-4.

Norden CW, Michaels RH, Melish M, (1976):

Serologic responses of children with meningitis due to hemophilus influenzae type b. J Inf Dis (136): 495-499.

References

Overturf G and Hoeprich P (1992):

Bacterial meningitis. In: Infectious diseases 3rd ed Edited by Overturf G and Hoeprich P. Harper and Row, 1035-52.

Paulson OB, Broderesen P, Hansen EL, et al (1974):

Regional cerebral blood flow, cerebral metabolic rate of oxygen and cerebrospinal fluid acid-base variables in patients with acute bacterial meningitis and with encephalitis. Acta Med Scand, (196): 191-198.

Portnory TM and Bradbury (1985):

Normal cerebrospinal fluid values in children: Another Look. Pediatr 75(3): 484.

Quaade F and Kristensen KP (1962):

Purulent meningitis. A review of 658 cases. Act Med Scand 171: 543.

Ralph D, Feigin MD, George H, et al (1992):

Diagnosis and management of meningitis. Pediatr Inf Dis J, 11(9): 785-810.

References

Richard E and Robert M (1992):

Meningeococcal infections. In: Victor B, Gamad ' R and Richard E (eds): Nelson Textbook of Pediatrics. W B Saunders Company. Philadelphia. Pp: 713- 716.

River ST, Lebel MD, et al (1994):

Influenzae meningitis. Am J Dis Child (241): 102-124.

Robinowitz S and Hgab HM (1977):

The diagnostic and predictive value of cerebrospinal fluid lactate in children with meningitis. MS Thesis, Faculty of Medicine, University of Alexandria.

Rodewald LE, Woodin KA, Szilagyi PG, et al (1991):

Relevance of common tests of cerebrospinal fluid in screening for bacterial meningitis. J Pediatr 1991; 119: 363-369.

Rodriguez AF, Kaphn SL, Mason EO (1990):

Cerebrospinal fluid values in the very low birth weight infant. J Pediatr, 116: 971.

References**Saif El Din S and Abdel Wahab MF (1991):**

Central nervous system infections. In: A guide book of tropical medicine and infection diseases. Tropical Med Department, Ain-Shams University Cairo, 179-201.

Salih M, Sid Ahmed H, Karrar Z, et al (1990):

Features of a large epidemic of group A meningococcal meningitis in Khartum, Sudan in 1988.

Santoshan M, Kallman CH, Neff GN, et al (1979):

Absence of increasing incidence of meningitis caused by hemophilus influenza type b. J Infect Dis 140: 1009-1012.

Scheifele DW, Ward JI and Siber GR (1981):

Advantage of latex agglutination over CI in detection of Hib antigen. Pediatr J (58): 888-891.

Scheld WM (1981):

Pathophysiological correlation in bacterial meningitis. J Inf Dis 39(1): 75-81.

References

Schwartz RP, Parker S (1971):

Rapid screening test for protein and glucose in cerebrospinal fluid. *J Pediatr* 78: 677-680.

Singhin PD, Sinhin SC (1995):

Central NS infections in children (bacterial, tubercular) *Current Opinion in Neurology* 8: 150-155.

Sipple J, Girgis N and Kilpatrick M (1991):

Laboratory diagnosis of bacterial meningitis. *Trans Roy Soc Trop Med Hyg (Suppl 1)*; 85: 6-8.

Sipple J, Proto C and Girgis N (1986):

Detection of N-meningitidis group A, H Influenzae type b and streptococcus pneumoniae antigen in cerebrospinal fluid specimen by ELISA. *Am J Trop Med Hyg* 26(2): 83-91.

Smith AL (1973):

Bacterial meningitis. II Diagnosis of bacterial meningitis. *Pediatrics* (52): 589-92.

References

Sperenger H, Rosler A, Tonn B, et al (1996):

Chemokines in the cerebrospinal fluid of patients with meningitis. *Clin Immunol Immunopathol* 80: 155- 161.

Stephen J and Anthony H (1991):

Practical management of bacterial meningitis in tropics, postgraduate Doctor, (14): 248-254.

Swartz MN and Minns (1988):

In Cecil textbook of Medicine 18th Wyngraden, JB, Smith LW (eds) W.B. Saunders Company Philadelphia.

Swartz MN and O'Honley (1989):

Science American Medicine Pubenstin Federman (2): p3.

Swinscow (1994):

Knapp and Clinto Miller III, (1992): Young and Veldman (1977).

Synder RD, et al (1989):

Bacterial infections of the nervous system. In: Swaiman K Fed

References

Tamir M, Mustafa MD, Marc H, Ramilo MD, et al (1989):

Correlation of interleukin 1-B and Cachectin concentration in CSF and outcome of bacterial meningitis. J Pediatr 1157: 208-13.

Todd JK (1974):

Childhood infections. Diagnostic value of peripheral white blood cell and differential cell counts. Am J Dis Child 127: 810-816.

Trinder P (1969):

Determination of glucose in body fluids using oxidase method. Amm Clin Biochem (6): 24.

Underman A, Overtruf G and Leedom J (1978):

Bacterial meningitis. In Dis A Month 24: 1-6.

Varely H (1984):

Practical clinical biochemistry 4th ed. NewDelhi: Arnold Heinemenu.

Waage A, Halstensen A, Shababy R, et al (1989):

Interleukin-1, tumor necrosis factor alpha, interleukin-1

References

Walsh J (1990):

Abnormal laboratory results: Cerebrospinal fluid microscopy and biochemistry In *Medicine Digest* (16); 5: 22-24.

Walton J (ed) (1985):

Brain's disease of the NS 9th ed. Oxford, Oxford University Press.

Wehrle PF, Mathies AW, Leedom JM (1975):

Diagnosis and treatment. The critically ill child: Management of acute BM. *Pediatrics* 50: 674-85.

Winkelstein JA (1970):

The influence of partial treatment with penicillin on the diagnosis of bacterial meningitis. *J Pediatr* 77: 619-624.

Young KR, Veldman DJ (eds) (1977):

Selecting the right inferential method. In: *Introductory statistics for the behavioral sciences*. Holt, Rhinehart and Winston. New York. Pp:449-464.

References

Zetnow RC, Farid Z, Abdel Wahab M (1980):

Acute bacterial meningitis in Cairo, Egypt 1961-1972, J Trop
Med Hyg; (74): 141-4.