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A K M Shoab

MAG Osmani Medical College, Bangladesh

Evaluation of adenosine deaminase activity in cerebrospinal fluid for diagnosis of tuberculous meningitis

Background: In the developing countries where TB is endemic; an ideal test for tuberculous meningitis should be economic, of high accuracy & quick to perform. It is very much needed to evaluate the diagnostic role of CSF ADA (adenosine deaminase) in tuberculous meningitis in Bangladesh.

Objective: This study objective is to find out CSF ADA sensitivity & specificity for early diagnosis of tuberculous meningitis Patients and Methods / Material and Methods Case control study; 30 patients of tuberculous meningitis as cases & 30 nontuberculous meningitis as control

Results: The mean CSF ADA activity was found to be significantly higher in CSF of TBM patients, 14.01 ± 12.4 (1.0-65.2), mean \pm SD with range, than in the CSF from non-TBM infectious meningitis, 7.2 ± 8.2 (1.8-49.1) $P=0.01$ cut off value of >7.6 U/L for the TBM patients was calculated from the mean \pm SD of the non TBM patients. The ADA sensitivity is 81.82%, specificity 65.3%, accuracy 68.33%, PPV 34.62%, NPV 94.12%, positive likelihood ratio 2.3 and negative likelihood ratio 0.2 for infectious TBM when this cut-off value was used. ROC curve shows area under curve of .736 suggests a moderate accuracy

Conclusion: ADA activity in CSF can be useful for early diagnosis of TBM

Biography

A K M Shoab has completed his MBBS in 1999 from Sir Salimullah Medical College, Dhaka. In 2008 he did post graduate MCPS degree in Medicine and in 2012 did MD (Neurology) from Dhaka University. He was consultant of Medicine from 2008 to 2016 at 250 Bedded Hospital, Moulvibazar. He is now working as Assistant Professor of Neurology in Sylhet MAG Osmani Medical College. He has published 7 papers in reputed journals and he is the member of AAN and EAN.

shoabmcpsbcsmd@gmail.com

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