



अखिलभारतीयआयुर्विज्ञानसंस्थान (एम्स), कल्याणी
All India Institute of Medical Sciences (AIIMS), Kalyani
राष्ट्रीयराजमार्गनंबर-34 कनेक्टर, वसंतपुर, सगुना, कल्याणी, पश्चिमबंगाल, 741245
National Highway-34 Connector, Basantapur, Saguna, Kalyani, West Bengal 741245

Citation/ Summary

The burden of health care associated meningitis (HCAM) is paramount, they need special attention due to its high morbidity and escalating cost on healthcare resources. HCAM is typically caused by Gram-negative bacilli, such as *Pseudomonas aeruginosa*, *Acinetobacter* spp., or *Enterobacteriaceae* and Gram-positive cocci, such as staphylococci or enterococci. The standard empirical drug regimen in these cases is meropenem and vancomycin, nowadays several other antibiotics are being tried which include a cheaper alternative like ceftazidime. Ceftazidime has good blood brain barrier penetration and also it is effective cases of multidrug resistant bacteria. We intend to perform an efficacy analysis of these two drug regimen as well as a cost benefit analysis. Radiological imaging may be done to rule out cerebral abscess or cerebrospinal fluid (CSF) leak. Then CSF shall be send for cytology and cultures and empirical antibiotics started. There will be two study groups A: - Patients receiving Meropenem + Vancomycin; group B:- Ceftazidime + Vancomycin. These patients will be followed up by repeat CSF cultures and improving clinical picture. The cost analysis will be done by a hospital administration personnel who shall include the following parameters like length of hospital stay, ICU stay, ventilator days, cost of expensive drugs and redo surgery. Thus, a balance sheet shall be prepared and it shall be regularly updated in master chart. All data will be recorded and at the end of three months Glasgow Outcome Score will be calculated as a measure of morbidity and mortality.

Signature of the Executive Director of the Institute

Prof.(Dr.) Ramji Singh (With name and stamp)
Executive Director
All India Institute of Medical Sciences
(AIIMS) Kalyani, West Bengal

Place: KALYANI

Date: 30/08/2024