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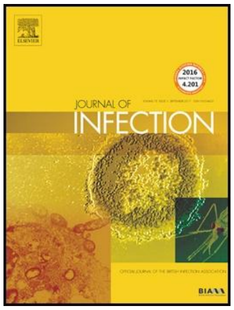

Title: Encephalitis diagnosis using metagenomics: application of next
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Title

Encephalitis diagnosis using metagenomics: Application of Next Generation Sequencing for Undiagnosed Cases

Running title

Metagenomics for diagnosis of encephalitis

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Summary

Background

Current estimates suggest that even in the most resourced settings, the aetiology of encephalitis is identified in less than half of clinical cases. It is acknowledged that filling this gap needs a combination of rigorous sampling and improved diagnostic technologies. Next generation sequencing (NGS) methods are powerful tools with the potential for comprehensive and unbiased detection of pathogens in clinical samples. We reviewed the use of this new technology for the diagnosis of suspected infectious encephalitis, and discuss the feasibility for introduction of NGS methods as a frontline diagnostic test.