Emerging tropical neurological infections

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A large majority of neurological infections remain undiagnosed worldwide. Emerging and re-emerging infections are likely to be responsible for a significant proportion of these. Over the last two decades, several new organisms producing neurological infection and the neurotropic potential of many other known pathogens have been identified. Large outbreaks caused by re-emerging pathogens such as Chikungunya virus, Zika virus and Ebola virus have led to better delineation of their neurological manifestations. Recognition of the pandemic potential of emerging pathogens and an improved understanding of their host-vector-environment interactions would help us be better proposed to meet these emerging threats.

Introduction

The global landscape of neurological infections appears to be changing, and a key reason is the emergence and re-emergence of many neurotropic pathogens. This is especially true in tropical countries where the pattern of infectious diseases is different from temperate regions due to a multitude of geographical, socio-economic and socio-cultural factors. Aetiological agents traditionally taught in medical schools as common causes of neurological infections are seldom identified in outbreak investigations and surveillance studies from tropical countries. ^{LJ} This article will focus on some emerging neurological infections that have recently gained global attention.

Dengue with neurological involvement

Dengue is the most important orbowiral disease worldwide and is endemic in more than 100 countries, with half of the world population at risk. *Dengue virus (DENV, family Flavivindoe, genus Flavivirus, transmitted by Aedes mosquitoes) has four antigenically distinct senotypes (DENV-1 to DENV-4). Neurological involvement is seen in up to 21% of patients and is mainly associated with DENV-2 and DENV-3 senotypes. **DENV is identified in 4–47% of suspected encephalitis cases in endemic areas. *A high index of suspicion is required as many patients with neurological involvement do not exhibit features of the typical dengue fever typicione.

The spectrum of neurological manifestations in dengue is diverse. Dengue encephalitis and encephaliopathy present with

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altered consciousness, behavioural changes, headache, setzures and focal deficits. Encephalopathy is the commonest neurological obnormality reported, and results from several systemic disturbances (prolonged shock, hypoxia, metabolic derangements, intracerebral haemorrhage, brain bedema, acute liver failure or renal failure). Cerebrospinal fluid (CSF) analysis is usually normal. Neuroinvasive and neurotropic properties of DENV have been demonstrated over the recent years, confirming the existence of dengue encephalitis. Its diagnosis is supported by lymphocytic pleocytosis, detection of dengue-specific IgM, NS1 antigen or dengue-RNA (by RT-PCR), or virus isolation in CSF, Brain NR2 may be normal or show cerebral bedema or non-specific changes. DENV antigen and RNA (by RT-PCR) have been detected from brain tissue in autopoy studies. ^{5,5}

Dengue associated muscle dysfunction (myaligia, proximal weakness, elevated cleatine kinasel, while usually self-limiting, may occasionally lead to rhabdomyolysis. Typical myopathic changes are not usually seen on electromyography. Stroke following dengue is rore, and haemarhagic strokes are commoner

Key points

The global landscape of central nervous system infections is rapidly changing.

Neurological syndromes caused by many emerging pathogens, mainly viruses, have been defined in the last decade.

Emerging infections are likely to be responsible for a significant proportion of the burden of neurological infections, especially in tropical countries.

Outbreaks caused by emerging pathogens may result from the expansion of their geographical range, spread from animal reservoirs and development of new neurovirulence.

Diagnostic yields will improve if we start searching for emerging pathogens in observational studies, outbreak investigations and surveillance studies of neurological infections.

KEYWORDS: neurological infections, emerging infections, tropical infections

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