Encephalopathy Clusters Conflated with Encephalitis Outbreaks

So-called ‘Saharanpur encephalitis,’ with high case fatality, used to occur annually, post-monsoon, in Western districts of Uttar Pradesh (UP). Over 2 decades, Indian Council of Medical Research (ICMR) and National Centre for Disease Control (NCDC) staff failed to diagnose it. A team of volunteer investigators (T Jacob John, virologist; VM Vashishtha, pediatrician; NC Nayak, pathologist; Amod Kumar, epidemiologist; and Mukul Das, toxicologist) diagnosed this encephalopathy with focal liver and muscle necrosis (hepatomyoencephalopathy) to be caused by phytotoxins of *Cassia occidentalis* [1].

History repeats in Bihar, as pointed out by IAP President [2]. The ‘mystery disease’ recurred annually for decades in the North-Western districts, during pre-monsoon months; it was called ‘Muzaffarpur encephalitis’ first and later Acute encephalitis syndrome, as ICMR/NCDC failed to find viral etiology. Again, a volunteer team (T Jacob John, Arun Shah and Mukul Das facilitated by NK Sinha and guided by Maya Thomas) investigated the problem. We diagnosed hypoglycemic encephalopathy and have advised Bihar Health Ministry how to investigate etiology and to mitigate the risk factor of undernutrition [3]. These non-infectious encephalopathy cases can be prevented or treated. In UP, public education that *Cassia occidentalis* is poisonous was enough to prevent the disease [4]. In Bihar, early infusion of 10% dextrose saved lives [3].

In healthcare, incorrect diagnosis or treatment is medical negligence. In public health, incorrect management is public health negligence – consequent deaths amount to homicide by public health negligence [5]. State officials believe that outbreak investigation is the responsibility of the Central Government. In Delhi, the view is that health is State subject; States are responsible for diagnosis and prevention. The unfortunate victims are people without voice.

India’s health management system lacks organization with clear lines of command and is in need of review and repair. IAP can serve as advocate, advisor and guide in this regard.

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Atypical Manifestations of Dengue Fever

We read with interest, the recently published article on the atypical manifestation of dengue fever in children [1]. The authors have highlighted the occurrence of atypical manifestations like splenomegaly, neurological abnormalities, acute respiratory distress syndrome (ARDS), disseminated intravascular coagulopathy (DIC), diarrhea and myopathy. In this context, we would like to share our experience of the atypical manifestations during the epidemic of dengue fever at Puducherry in 2012-13. During the dengue fever epidemic, atypical manifestations were seen in 16 children (15.2%) and out of them splenomegaly (21.2%), biphasic fever (12.6%) and diarrhea (11.4%) was the most common; 32.3% of children with severe dengue infection had bleeding. The common mode of presentation of severe dengue infection was with features of peripheral circulatory failure (47.6%) and hypotension (30.3%) without bleeding. ARDS, myocarditis and DIC were seen in four children, five children had encephalopathy and refractory shock, and three children had myositis. Ultrasound abdomen showed gall bladder wall edema in 24% of cases. There were six deaths; common causes for poor outcome were ARDS, multiorgan failure, DIC and refractory shock.

Since many children of dengue hemorrhagic fever had features of peripheral circulatory failure without...
spontaneous bleed, we found it difficult to classify them according to the dengue hemorrhagic fever guidelines given by World Health Organization in 2011 [2]. Our clinical experience suggests a need to relook at the classification of dengue fever and its management guidelines. With recent epidemics showing the changing pattern of presentation, atypical manifestations occur more often than previously reported [3]. The awareness regarding atypical manifestations of dengue fever is lacking among the health care personnel at primary health centers from where these cases are more often referred. Since the case fatality rate in children with severe dengue infection is high, pediatricians have a very important role to play to reduce the disease burden, and the minimum we can do is to update the health care personnel and community at various forums, about the various atypical manifestations of dengue for prompt recognition and management.

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