Commentary

Stroke in Asia: Neurosonology in Neurocritical Care

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Keywords

Stroke · Asia · Case reports · Neurosonology

Neurosonology is an important non-invasive technology using ultrasound to diagnose cerebrovascular arterial diseases and to monitor cerebral hemodynamics. It has a variety of clinical bedside applications. There are four interesting cases in this section, which proves the utility of neurosonology in neurocritical care. The first case was a patient with bacterial meningitis and cerebral vasculopathy where transcranial Doppler showed improvement in mean flow velocity following treatment with antibiotics [1].

Another important utility of transcranial Doppler was the monitoring of vasospasm in subarachnoid hemorrhage, which was described in the second patient [2]. In the third patient, using transcranial color-coded duplex ultrasound in a novel manner, the cerebrovascular reserve was assessed in dissection involving the right middle cerebral artery with hemodynamic vascular symptoms [3]. In the fourth patient, transcranial Doppler monitoring showed asymmetric mean flow velocities before improvement post hemicraniectomy for malignant middle

cerebral artery territory infarction [4]. All the above cases emphasize the value of neurosonology in neurocritical care.

Conflict of Interest Statement

The authors have no conflicts of interest to declare.

Funding Sources

This journal supplement was funded by an unrestricted educational grant from Moleac Pte. Ltd.

Author Contributions

D. Arjundas completed the first draft and approved the final manuscript. J.D. Pandian, N. Venketasubramanian, and K.S. Tan reviewed the paper for content and clarity, provided critical feedback, and approved the final manuscript.

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