AJNR

Neuroimaging in Dengue Seropositive Cases

P. Sookaromdee and V. Wiwanitkit

AJNR Am J Neuroradiol 2018, 39 (7) E84
doi: https://doi.org/10.3174/ajnr.A5646
http://www.ajnr.org/content/39/7/E84

Neuroimaging in Dengue Seropositive Cases

We read the publication "Brain Imaging in Cases with Positive Serology for Dengue with Neurologic Symptoms: A Clinicoradiologic Correlation" with a great interest.[1] Vanjare et al[1] concluded, "Although not specific, dengue infection has imaging findings that can be used to narrow down the differential list and help in prognostication." We would like to share ideas and experiences from tropical Indochina on this finding. In fact, neurologic problems due to dengue are possible, but the brain imaging is usually not specific and might contribute little to the clinical diagnosis and management.[2] Regardless of brain imaging findings, poor neurologic signs and symptoms are usually related to poor outcome.[3] With similar positive brain imaging findings (presence of diffusion restriction and hemorrhagic foci in the brain parenchyma), worse prognosis is reported in patients with overt encephalitis symptoms.[4] Nevertheless, the important determinant for good outcome is the appropriate clinical management by fluid-replacement therapy.[2] In the previous study in Thailand, the cases with fatal dengue hemorrhagic fever usually had no positive brain imaging findings, and there was no prognostic advantage of brain imaging in patients with dengue.[5]

http://dx.doi.org/10.3174/ajnr.A5646

REFERENCES

1. Vanjare HA, Mannam P, Mishra AK, et al. **Brain imaging in cases with positive serology for dengue with neurologic symptoms: a clinicoradiologic correlation.** *AJNR Am J Neuroradiol* 2018;39:699–703 CrossRef Medline
2. Wiwanitkit V. **Dengue fever: diagnosis and treatment.** *Expert Rev Anti Infect Ther* 2010;8:841–45 CrossRef Medline
3. Misra UK, Kalita J, Mani VE, et al. **Central nervous system and muscle involvement in dengue patients: a study from a tertiary care center.** *J Clin Virol* 2015;72:146–51 CrossRef Medline
4. Wasay M, Channa R, Jumani M, et al. **Encephalitis and myelitis associated with dengue viral infection clinical and neuroimaging features.** *Clin Neurol Neurosurg* 2008;110:635–40 CrossRef Medline
5. Wiwanitkit V. **Magnitude and pattern of neurological pathology in fatal dengue hemorrhagic fever: a summary of Thai cases.** *Neuropathology* 2005;25:398 CrossRef Medline

P. Sookaromdee
TWAS Medical Center
Bangkok Thailand
V. Wiwanitkit
Department of Community Medicine
DY Patil University
Pune, India