Headache in India

Headaches are as much a problem in India as elsewhere in the world. Given the population load, and the fact that most headaches seen in practice are underdiagnosed and undertreated, the burden of headache is significant. In this modern era, when imaging studies are easily available, most secondary headaches are identified and managed correctly. Management of secondary headaches depends on the causative factor and the strategies are the same the worldover. Amongst the secondary headaches, those due to intracranial granulomas, neurocysticercosis, meningeval infections and cerebral venous thrombosis are probably a little more common in the Indian setting.

Therefore, headache mismanagement generally pertains to primary headaches, where imaging studies are normal and investigations do not reveal an underlying cause. This article is a brief review of the Indian primary headache scene where the dilemmas are different and regional variations have an important role to play. It lists some of the more important contributions to headache literature from India.

In the light of numerous other medical problems that loom large, headache management in India is not given the priority it deserves in the health-care system. Because of limited teaching on ‘headache’ in medical schools and numerous additional barriers, headache diagnosis and treatment are often sub-optimal. Headache medicine is still not a recognised sub-specialty in India. Myths and misunderstandings abound and headache patients end up being seen by many different specialists, each one of whom looks at the problem through the window of their own speciality. For all these reasons, headache patients in India do not receive adequate sympathy, care and attention. Migraine is the main cause of headache burden worldwide. Even though there may not be too many variations in the clinical presentations of primary headaches across different regions of the world, treatment outcomes may vary depending on differences in genes, geography and environment. Attitudes, awareness and health-care policies all have an influence on the way headaches are perceived and managed.

India is located to the north of the equator and the heat and humidity and the numerous other migraine triggering factors all contribute to more frequent headaches that may not easily respond to medical treatment. There are many additional barriers to headache care in India. With a population of more than one billion, India has 16% of the world population and therefore health priorities keep changing. Low literacy levels make it more difficult for patients to understand the treatment plan and expectations are always high.

The health-care system in the country is also not geared to supporting effective headache treatment. Less than 5% in India seek private care or managed care. With a significant part of the population in the lower income group it is difficult for patients to seek treatment for a recurrent problem like headache. Financial constraints and fixed notions lead to poor compliance. 25% of the Indian population lives in the cities and 75% in villages. Growing urbanisation leads to infrastructural breakdown and increase in stress levels. Most of the rural population tries alternative treatment methods such as homoeopathy, ayurveda and unani. Physicians do not understand the true misery of headaches and time constraints and overcrowded clinics add to the problems of patients with headache. Headache diaries are not maintained, disability levels are not evaluated and burdens cannot be assessed.

Some important headache literature from India have been included here. There have been no standardised population based epidemiological studies that can be quoted as indicative of the true prevalence. Gowrie-Devi et al did an epidemiological study of neurological disorders in Southern India which included evaluation of patients with...
headache. Ravishankar et al. analysed the pattern of headaches seen at a tertiary referral centre in India. Out of 1000 patients who presented with headache, 86% had primary headaches that were classifiable, 11% were unclassifiable and 3% had secondary headaches. Of the primary headaches, 55% had migraine, 28.3% had tension-type headache, 22.2% had cluster headache and 0.5% had miscellaneous primary headaches. Shah et al. studied 2982 patients from the Kashmir Valley and analysed the various headache patterns and cranial neuralgias. They found Ramadan fasting to be a significant factor for precipitating migraines. Shukla et al. investigated blood nitrite levels and found Ramadan fasting to be a significant factor for precipitating migraines. Shukla et al. have also reported on barriers to headache care in India and the efforts that are needed to improve the situation. The barriers were grouped as patient related, physician-related and regional. Local problems that pertain to headache management, the unusual triggers seen in India and the inadequacies of the health-care system have been outlined. Besides the established triggers that are better known, Ravishankar has described hair-wash or head-bath as an unusual trigger that is not seen in the West.

Panda et al. have reported an observational study on the clinical characteristics of migraineurs from India. They reported a low frequency of patients with a positive family history of headache. Gupta et al. found that 73.1% of their migraine patients had autonomic features.

Special efforts are therefore needed to tackle the headache problem in India. Awareness and education on headache needs to improve and insurance agencies must recognise headache as a valid biological disorder. We need more tertiary care clinics and lay support groups. The health care system should be modified to include headache care for all.

**References**