The epidemiological studies on Huntington's disease (HD) suggest that prevalence rates in the Asian population are significantly lower than the western population. There are preliminary observations that would propose that HD is underestimated in some Asian countries due to stigma related to diagnosis, normalization of behaviors, or use of restricted methods (genetic and neurological) for confirming the diagnosis of HD. This systematic review of epidemiological data of HD prevalence in Asia has highlighted the level of impact of HD on the Asian population. Original articles and reviews about HD prevalence in the Asian population were found through available databases such as EMBASE, Medline, and PsycInfo. Relevant articles were analyzed with the scrutiny of references including specific keywords. A meta-analysis was performed on prevalence rates to find the degree of similarities with I². Point prevalence was measured as the number of people affected by HD on 100,000 populations. Results show the highest point prevalence of HD in the Indian subpopulations of Pakistan, Punjab, and Gujarat with 1.35 (OR95%CI=1.14-1.57) (Table 1). The lowest point prevalence was found in the Chinese population with 0.25 (OR95%CI=0.16-0.36). Europe remains at a high prevalence compared to Asian countries with 1.00 (OR95%CI=0.82-1.19). Results also show that the prevalence rates have statistical significant variability in all Asian countries (I²=93.90%, p=<0.001). The overall prevalence in the world is 0.61 (OR95%CI=0.43-0.81). Our study reveals that Huntington's disease affects the population in Asia to a lesser extent than Europe, although some countries like Indian subpopulations of Pakistan, Punjab, and Gujarat present with the highest global prevalence. The plausible explanation is that some countries did not adopt genetic and neurological testing while affected individuals will not self-refer to HD screening for fear of social stigma and negative influence in marriage.

Recent Publications


Biography

Basavaraja Papanna is a Medical laureate with Postgraduate training and degree in Neurosciences. He is the Member of the Neuroscience Committee at the Royal College of Psychiatry in United Kingdom. His research interests and publications include Neuropsychiatry, Huntington Disease, General Adult Psychiatry, and Sleep Disorders. He is conducting a research study in the epidemiology of Huntington's diseases in Asia using genetic diagnostic methods.