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Association between serum ferritin concentration and perihaematoma oedema volume in patients with supratentorial spontaneous intracerebral haemorrhage

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Abstract

Stroke (ischaemic & Haemorrhagic) is a major cause of mortality & morbidity in the developed as well as in the developing countries and rank 3rd after coronary heart diseases & all types of cancer among the causes of death. Perihaematoma oedema & haematoma expansion are two important points to be considered when deciding outcome of patients with ICH. Brain damage due to haematoma may be irreversible but the injury from perihaematoma oedema may be reversible. In humans, perihaematoma oedema increases rapidly in the first 48 to 72 hours after ICH & thereafter continues to increase at a slower rate for 1 to 2 weeks & then starts to decrease. It has been seen that S. ferritin is the most reliable indicator of body iron. Treatment with Iron chelators may give better outcome after ICH. Our objective was to assess the association between S. ferritin & relative perihaematoma oedema volume. In this study, most of the ICH patients fell in the age group between 41-60 years (53%). During admission grade 1 (GSC 3-8) level of consciousness was reported among 45% of patients. Most common risk factor was hypertension (78%) followed by smoking (43.8%) & diabetes mellitus (34.4%). All the patients in this study presented with motor deficit that include hemiplegia 20 (62.5%) & hemiperesis 12 (37.5%). Mean value of S. ferritin was found elevated on day 4 in comparison to day 1. Mean relative perihaematoma oedema was elevated on day 4 than day 1 but it was not statistically significant. In this study after statistical analysis by Pearson's correlation technique we found that there was no significant association between S. ferritin concentration & relative perihaematoma oedema volume on day 1 & day 4

Biography

Dr. Ahsan Mohammed Hafiz, completed MS in Neurosurgery from Bangabandhu Sheikh Mujib Medical University on January 2017. Currently working at Uttara Adhunik Medical College & Hospital as a Neurosurgeon



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