



Comparative Study of Serum level of d-dimer in Patients with Cerebral Venous Thrombosis (CVT) and the Control Group

Abdolreza Ghoreishi¹, Mohamad Soltani^{1*}

¹ Department of Neurology, vali-e-asr-Hospital, School of Medicine, Zanjan University of Medical Science, Zanjan, Iran

* **Corresponding author:** Mohamad Soltani, Department of Neurology, vali-e-asr-Hospital, School of Medicine, Zanjan University of Medical Science, Zanjan, Iran. Email: Ghoreishi@zums.ac.ir

Article Info	A B S T R A C T
Article type: Original article	Background and Aim: Cerebral Venous Thrombosis is a potentially life-threatening condition requiring early diagnosis and treatment with clinical manifestations that are unpredictable. On the other hand, the d-dimer test is inexpensive and easy to use and can be useful in diagnosis. This study aimed to evaluate the level of d-dimer in patients with cerebral venous thrombosis conducted from March 2017 to December 2017.
Article History: Received: 20 January 2020 Revised: 04 March 2020 Accepted: 14 May 2020	Materials and Methods: This case-control study was conducted in ValiasrHospital, Zanjan. Patients with cerebral venous thrombosis whose diagnosis was confirmed by MRI and MRV, were included in the study. Data was collected by taking a history and physical examination and taking blood samples for d-dimer and performing MRI and MRV.
Keywords: Cerebral venous thrombosis D-dimer Magnetic resonance imaging Magnetic resonance venography	Results: In this research, 38 patients, including 35 women and 3 men with an average age of 42.00 ± 9.7 , were studied. The mean serum d-dimer was 905.272 ng/ml in the patients. The average age and the mean d-dimer in the control group including 12 men and 18 women were 39.53 years and 243.07 ng/ml respectively. Conclusion: Regarding the fact that the level of d-dimer in the patients group was significantly higher than the control group, it is recommended that in patients with headache and suspected of CVT, Serum d-dimer level be measured as a diagnostic tool for the evaluation of CVT.