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## **Cerebral Sinus Venous Thrombosis Presenting As Isolated Ipsilateral Trigeminal Neuralgia: An Unusual Reversible Phenomenon.**

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### **Background & Aim**

Cerebral sinus venous thrombosis (CSVT) is an uncommon yet potentially fatal condition that presents with a variety of clinical symptoms. Neurological deficits, headaches, and seizures are frequently observed, while isolated involvement of cranial nerves is rarely seen. The occurrence of trigeminal neuralgia (TN) as the only symptom indicative of CSVT is an extremely rare phenomenon.

### **Materials & Methods**

We describe the case of a 48-year-old male with no significant medical history who reported a sudden onset of intense right-sided facial pain typical of trigeminal neuralgia, specifically affecting the maxillary (V2) branch



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### **Results**

- The patient characterized the pain as electric shock-like, episodic, and exacerbated by facial movements. No other neurological deficits or systemic symptoms were present. Initial evaluations indicated a newly diagnosed case of diabetes mellitus.
- A Magnetic Resonance Imaging (MRI) scan accompanied by Magnetic Resonance Venography (MRV) of the brain identified cerebral venous sinus thrombosis affecting the right transverse and sigmoid sinuses. There were no signs of infarction or mass effect.
- The patient responded to treatment with low molecular weight heparin for anticoagulation, which was subsequently switched to oral anticoagulants. Notably, the facial pain completely resolved within a week of starting treatment, without requiring standard anti-neuralgic medications.



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### **Discussion**

This case emphasizes an atypical manifestation of CSVT presenting solely as ipsilateral trigeminal neuralgia. The close anatomical relationship between the trigeminal nerve pathways and the affected venous sinuses may elucidate the underlying mechanism, potentially related to venous congestion or inflammation.

### **Conclusion**

Healthcare providers should remain vigilant for secondary causes when encountering atypical presentations of trigeminal neuralgia. Although rare, CSVT should be considered in cases of acute, unilateral trigeminal pain, especially when imaging indicates venous sinus involvement.