Bone destruction in patients with idiopathic orbital inflammatory pseudotumor

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Statement of the Problem: The Rootman classification system plays a critical role in identifying idiopathic orbital inflammatory pseudotumor (IOIP), yet it does not account for the occurrence of bone destruction, an rare feature that could be confused with malignant growths and lead to misdiagnosis. This investigation involved a retrospective analysis of the clinical features, diagnostic imaging, treatment approaches, and patient outcomes for six individuals treated at Beijing Tongren Hospital, Capital Medical University from October 2020 to June 2023. Within a two-year span, about 10% of IOIP patients seen at our facility showed signs of bone destruction. The study emphasizes the importance of histopathological analysis for accurate diagnosis and suggests complete surgical resection with adjuvant corticosteroid therapy as effective treatment. This approach has led to no recurrence and complete symptomatic relief in half of the patients, challenging previous prognostic expectations. This condition frequently affects multiple anatomical structures in a dispersed manner, leading to potential misidentification as cancer. The medial wall of the orbit was the bone most frequently implicated. In half of these cases, the orbital apex was involved, which impaired vision. Treatment for all involved complete surgical removal of the affected tissue followed by treatment with methylprednisolone. Despite concerns about long-term outcomes, half of the patients saw no return of the disease and achieved full relief from symptoms after treatment.

Biography

Qihan Guo, pursuing a Master's in Ophthalmology at Beijing Tongren Hospital, Capital Medical University, focuses on ocular and orbital tumors. After medical school, Guo's research contributions have spanned orbital inflammatory pseudotumor, IgG4-related disease, and retinoblastoma, leading to several scholarly publications. Additionally, Guo is a certified translator and interpreter with experience translating medical books and academic conference materials.

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