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Clinical profile and outcomes of management of orbital cellulitis in Upper Egypt

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Aim of this study is to study etiology, clinical findings and outcomes of management of cases of orbital cellulitis treated in Minia University Hospital in Upper Egypt over the period of six years from July 2009 to July 2015. 102 patients diagnosed to have orbital cellulitis were admitted to the hospital and treated on inpatient basis from July 2009 to July 2015. All patients were subjected to full ophthalmological examination, systemic evaluation and ENT consultation. Axial and coronal CT scan and orbital echography were done for all patients. All patients received medical treatments and 20 patients needed surgical intervention. The source of infection was paranasal sinusitis in 66 patients, trauma in 14 cases, panophthalmitis in six patients, dental infection in two cases and no definite source was detected in 14 cases. Sub-periosteal abscess (SPA) developed in 16 patients. The final best corrected visual acuity improved in 58% of the cases, decreased in 4% and remained unchanged in 38% of cases. No intracranial complication was recorded. Good presenting visual acuity and appropriate medical treatment together with early surgical intervention in cases of SPA are important factors to achieve favorable outcomes in orbital cellulitis. All cases with SPA had paranasal sinusitis and contrary to previous studies, superior SPA location was the most common followed by the medial location.

Biography

Ahmed Mohamed Kamal Elshafei is an Assistant Professor of Ophthalmology and Head of Oculoplastic Unit in Ophthalmology Department, Faculty of Medicine, Minia University, Egypt. In 2004, he has completed his Fellowship of Royal College of Surgeons (FRCS) in Glasgow, UK. In 2003, he was MD in Ophthalmology, Faculty of Medicine at Minia University, Egypt. He has completed his MSc in Ophthalmology in Faculty of Medicine and MBCh in Medicine and Surgery at Minia University, Egypt. He was an Intern of General Medicine and Surgery (1993-1994), Resident of Ophthalmology (1994-1997), Assistant Lecturer of Ophthalmology (1998-2003) and Lecturer of Ophthalmology at Minia University, Egypt (2003-2008).

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