

Abstract

BACKGROUND: Solitary fibrous tumor (SFT) is a mesenchymal neoplasm with a benign growth behavior. It was initially described in the pleura and has since been found in extrathoracic locations. In the orbital cavity, SFT is rare. **CASE REPORT:** We report on a 94-year-old female patient with a large intraorbital SFT on the left side. Tumor growth over 7 years led to a severe exophthalmos with loss of vision. Imaging studies revealed a clearly delineated mass measuring 3x3.3x2.2 cm. Via an anterior orbitotomy approach, we performed an in toto resection. Histological examination, including immunohistochemical detection of CD34 antigen, confirmed the presence of SFT. **CONCLUSION:** SFT is a rare differential diagnosis of orbital lesions and can be appropriately treated by surgical resection. When left untreated, complications such as loss of vision can occur.