

World Journal of *Clinical Cases*

World J Clin Cases 2022 February 16; 10(5): 1457-1753



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RESPONSIBLE EDITORS FOR THIS ISSUE

Production Editor: Lin-YuTong Wang; Production Department Director: Xiang Li; Editorial Office Director: Jin-Lai Wang.

NAME OF JOURNAL

World Journal of Clinical Cases

ISSN

ISSN 2307-8960 (online)

LAUNCH DATE

April 16, 2013

FREQUENCY

Thrice Monthly

EDITORS-IN-CHIEF

Bao-Gan Peng, Jerzy Tadeusz Chudek, George Kontogeorgos, Maurizio Serati, Ja Hyeon Ku

EDITORIAL BOARD MEMBERS

<https://www.wjgnet.com/2307-8960/editorialboard.htm>

PUBLICATION DATE

February 16, 2022

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<https://www.wjgnet.com/bpg/gerinfo/288>

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<https://www.wjgnet.com/bpg/gerinfo/208>

ARTICLE PROCESSING CHARGE

<https://www.wjgnet.com/bpg/gerinfo/242>

STEPS FOR SUBMITTING MANUSCRIPTS

<https://www.wjgnet.com/bpg/gerinfo/239>

ONLINE SUBMISSION

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Primary orbital monophasic synovial sarcoma with calcification: A case report

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Author contributions: Ren MY conceptualized this study, made the literature review and wrote the first draft of this paper; Li J, Li RM, Wu YX, Han RJ, and Zhang C made the literature review; all authors revised the paper and approved the final version for submission.

Informed consent statement: Informed written consent was obtained from the patient for publication of this report and any accompanying images.

Conflict-of-interest statement: The authors declare that they have no conflict of interest.

CARE Checklist (2016) statement: The authors have read the CARE Checklist (2016), and the manuscript was prepared and revised according to the CARE Checklist (2016).

Supported by the Science and Technology Planning Project of Xingtai, No.2019ZC246.

Country/Territory of origin: China

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Abstract

BACKGROUND

Synovial sarcoma is a malignant mesenchymal neoplasm with variable epithelial differentiation. Most synovial sarcoma cases are reported in young adults and can arise in any body site. Notably, primary orbital synovial sarcoma is rare.

CASE SUMMARY

An 8-year-old east Asian girl with 1-month history of gradual painless proptosis and lacrimation of the right eye was admitted. The patient presented with painless proptosis, downward eyeball displacement, and upward movement disorders. According to clinical manifestations, imaging examinations and postoperative immunohistochemical examinations, the diagnosis was monophasic synovial sarcoma with calcification. The patient underwent anterior orbitotomy procedure for removal of the right orbital mass under general anesthesia. The diagnosis of monophasic synovial sarcoma with calcification was confirmed finally through histological and immunohistochemical exam. The follow-up period was 6 mo, and no recurrence was observed during this period.

CONCLUSION

Primary orbital monophasic synovial sarcoma with calcification is a rare sarcoma, and clinical manifestations and imaging results are not specific. The tumor may present similar features as a benign tumor. Comprehensive analysis of clinical, radiological, and pathological findings is critically important for making the right diagnosis. Conventional treatment approach for synovial sarcoma is surgical resection with adjuvant or neoadjuvant radiotherapy, which is highly effective for localized tumors.

Key Words: Orbital tumor; Synovial sarcoma; Calcification; Histological; Case report

Specialty type: Ophthalmology**Provenance and peer review:**

Unsolicited article; Externally peer reviewed.

Peer-review model: Single blind**Peer-review report's scientific quality classification**

Grade A (Excellent): A

Grade B (Very good): 0

Grade C (Good): 0

Grade D (Fair): 0

Grade E (Poor): 0

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Received: July 31, 2021**Peer-review started:** July 31, 2021**First decision:** October 25, 2021**Revised:** October 28, 2021**Accepted:** December 28, 2021**Article in press:** December 28, 2021**Published online:** February 16, 2022**P-Reviewer:** Maglangit SACA**S-Editor:** Guo X**L-Editor:** Kerr C**P-Editor:** Guo X

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Core Tip: We describe a patient with 1-month history of gradual painless proptosis and lacrimation of the right eye. The patient underwent anterior orbitotomy procedure for removal of the right orbital mass under general anesthesia. The diagnosis of monophasic synovial sarcoma with calcification was confirmed finally through histological and immunohistochemical exam. The follow-up period was 6 mo, and no recurrence was observed during this period. This case illustrates the tumor may present similar features as a benign tumor. Comprehensive analysis of clinical, radiological, and pathological findings is critically important for making the right diagnosis.

Citation: Ren MY, Li J, Li RM, Wu YX, Han RJ, Zhang C. Primary orbital monophasic synovial sarcoma with calcification: A case report. *World J Clin Cases* 2022; 10(5): 1623-1629

URL: <https://www.wjgnet.com/2307-8960/full/v10/i5/1623.htm>

DOI: <https://dx.doi.org/10.12998/wjcc.v10.i5.1623>

INTRODUCTION

Synovial sarcoma is a malignant mesenchymal neoplasm with variable epithelial differentiation. It mainly occurs in young adults and can arise at several sites[1]. It mainly commonly occurs in deep soft tissue of the extremities in adolescents and young adults[2]. Synovial sarcoma of the head and neck region is very rare, and only a few cases of sarcoma arising from the orbit have been reported[3,4]. The current study reports a case of primary orbital monophasic synovial sarcoma which was characterized by calcification in an 8-year old patient.

CASE PRESENTATION

Chief complaints

An 8-year-old east Asian girl with 1-mo history of gradual painless proptosis and lacrimation of the right eye was admitted to our hospital.

History of present illness

The patient presented with gradual painless proptosis and lacrimation of the right eye for 1 mo. The proptosis was gradual and painless. No special treatment was performed, and there was no other significant change in ocular symptoms.

History of past illness

The patient had no history of any previous disease.

Personal and family history

There was no family history of malignant neoplasm.

Physical examination

Physical examination showed no neurological signs. The patient presented with painless proptosis, downward eyeball displacement, and upward movement disorders. Ocular examination showed that the binocular best-corrected visual acuity was 20/20. Eye examination did not show any significant eyelid, conjunctival, corneal and lenticular abnormalities, and fundus examination did not show any abnormalities. Hertel exophthalmometry analysis showed that the right eye was 18 mm and whereas the left eye was 13 mm, and the interorbital distance was 91 mm. Intraocular pressure of the right eye was 13 mmHg and 11 mmHg in the left eye.

Laboratory examinations

Blood and urine tests were normal.

Imaging examinations

A/B-scan showed moderate echogenic lesions in the right eye orbital. Echoes were uneven, well-distributed and sound transmission normal. Patchy strong echoes and sound shadows were detected (Figure 1). Orbital CT scan showed a well-defined soft tissue density mass in the right orbit, with flaky high-density shadows observed inside the right orbital. The size of the mass was approximately 20 mm × 20 mm × 19 mm, and exophthalmos; extraocular muscles and optic nerve were compressed (Figure 2). Orbital magnetic resonance imaging showed a circular-like mass in the right orbital. T1-weighted images (T1WI) showed moderate signals, whereas T2-weighted images (T2WI) showed mixed signals, with high number of moderately high signals. T1WI and T2WI were characterized by low-signal regions. Most part of the lesion was significantly and unevenly enhanced, whereas local lesions did not exhibit any enhancement (Figure 3).

Primary diagnosis

Based on the findings described above, the preliminary diagnosis was rhabdomyosarcoma or other malignant neoplasm.

FINAL DIAGNOSIS

Histological examination showed that the tumor was monophasic synovial sarcoma with calcification. Immunohistochemical analysis showed positive staining for CD34, CD99, Bcl-2, CKpan, TLE1, INI-1 and Ki-67 (25%), and negative staining for SMA, Vimentin, Myogenin, Myoglobin, Syn, CgA, NSE, S-100, PGP9.5, EMA, CK7, CK (AE1/AE3), CD65, Calretinin, TTF1 and MUC-4 (Figure 4).

TREATMENT

After preoperative examination, the patient underwent anterior orbitotomy procedure for removal of the right orbital mass under general anesthesia. The operation showed an oval tumor above the optic nerve in the right orbit. The tumor margins were well defined, however, it was significantly large, reddish, unmovable, and adhesive to the levator palpebrae muscle (Figure 5). The levator palpebrae muscle was cut along its path, the tumor was carefully separated from the muscle and removed. The levator palpebrae muscle was sutured before the end of the operation. After treatment, the patient was transferred to the tumor hospital and underwent systemic chemotherapy.

OUTCOME AND FOLLOW-UP

The follow-up period was 6 mo, and no recurrence was observed during this period.

DISCUSSION

Synovial sarcoma accounts for 10%-20% of soft tissue sarcomas. It is a high-grade soft-tissue sarcoma occurring mainly in older children and young adults. Approximately 7% of soft tissue sarcoma cases occur in the head and neck region, and synovial sarcoma represents less than 0.1% of all head and neck cancers[5,6]. Orbital synovial sarcoma is a rare kind of malignancy. Therefore, diagnosis of orbital synovial sarcoma in clinical practice is challenging, and required an integrated approach that incorporates specific clinical, histological, immunohistochemical, and molecular analyses.

Synovial sarcoma is a rare kind of orbital tumor and the clinical characteristics have not been fully elucidated. Clinical manifestations include gradual painless proptosis, eyelid swelling, a palpable painless mass, epiphora, ptosis, and periorbital spontaneous pain or tenderness. However, these clinical manifestations are not unique to synovial sarcoma. Characteristic findings are not reported in current imaging studies due to the small number of cases. A case of monophasic synovial sarcoma primarily arising in the left supero-nasal orbital region was reported in a 24-year-old woman, which was clinically mistaken for a periocular cyst[6]. However, the lesion

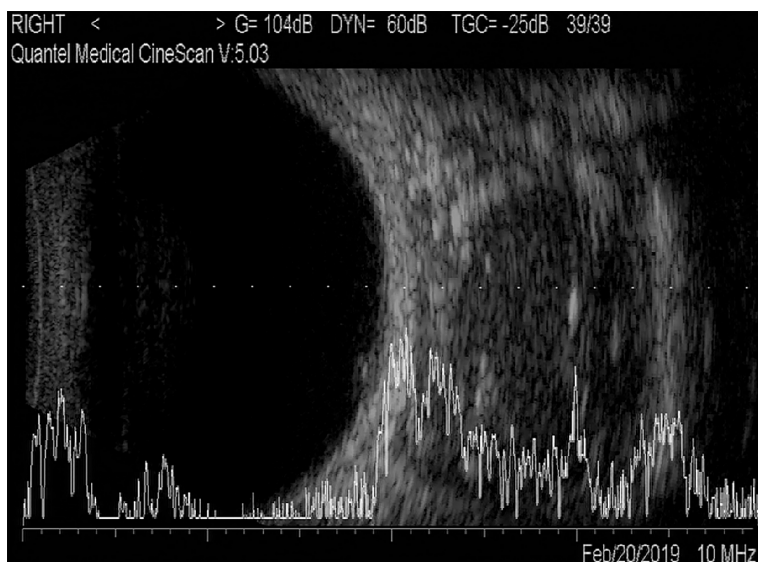


Figure 1 A/B-scan showed moderate echogenic lesions in the right eye orbital.

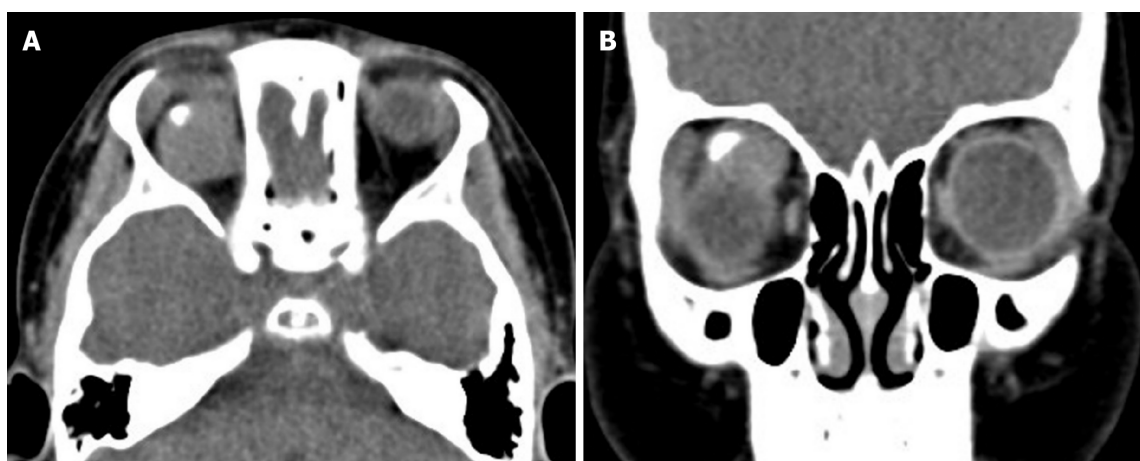


Figure 2 Orbital computed tomography scan showed a well-defined soft tissue density mass in the right orbit, with a hyperdense speck suggestive of coarse calcification. A: Axial computed tomography (CT) scans; B: Coronal CT scans.

was characterized by calcification similar to the current case.

The calcification can be pathologically divided into dystrophic calcification and metastatic calcification. In the current case, the growth of the lesion was relatively rapid, resulting in ischemia and necrosis of the tumor. Significant calcification of the lesion may be caused by dystrophic calcification. Occurrence of a lesion with calcification in orbit of a pediatric patient, orbital tumor such as vascular lesions or malformations, and orbital malignancies should be explored when carrying out diagnosis. Irregular calcification is common in malignant tumors and partially benign tumors. Cases of orbital tumors, in children are associated with higher incidence of rhabdomyosarcoma[7]. In addition, most common soft-tissue sarcoma cases in children are reported in the head and neck with 10% of all cases occurring in the orbit. Notably, a detailed history is essential if a child is suspected to have rhabdomyosarcoma[8]. A case of recurrent primary orbital calcified synovial sarcoma in a young lady was previously reported[4]. In addition, diagnosis should distinguish the primary lesion from metastatic lesion, as metastatic synovial sarcomas are characterized by poor prognosis[9]. Notably, the case reported in the current study showed no other systemic lesions, was primary tumor, and not a recurrent case.

Orbital tumor such as vascular lesions, vascular malformations, other benign lesions and orbital malignancies should be considered when there is a lesion characterized by calcification in the orbit during childhood. Irregular calcification is common in malignant tumors and partially benign lesions. In the current case, orbital computed

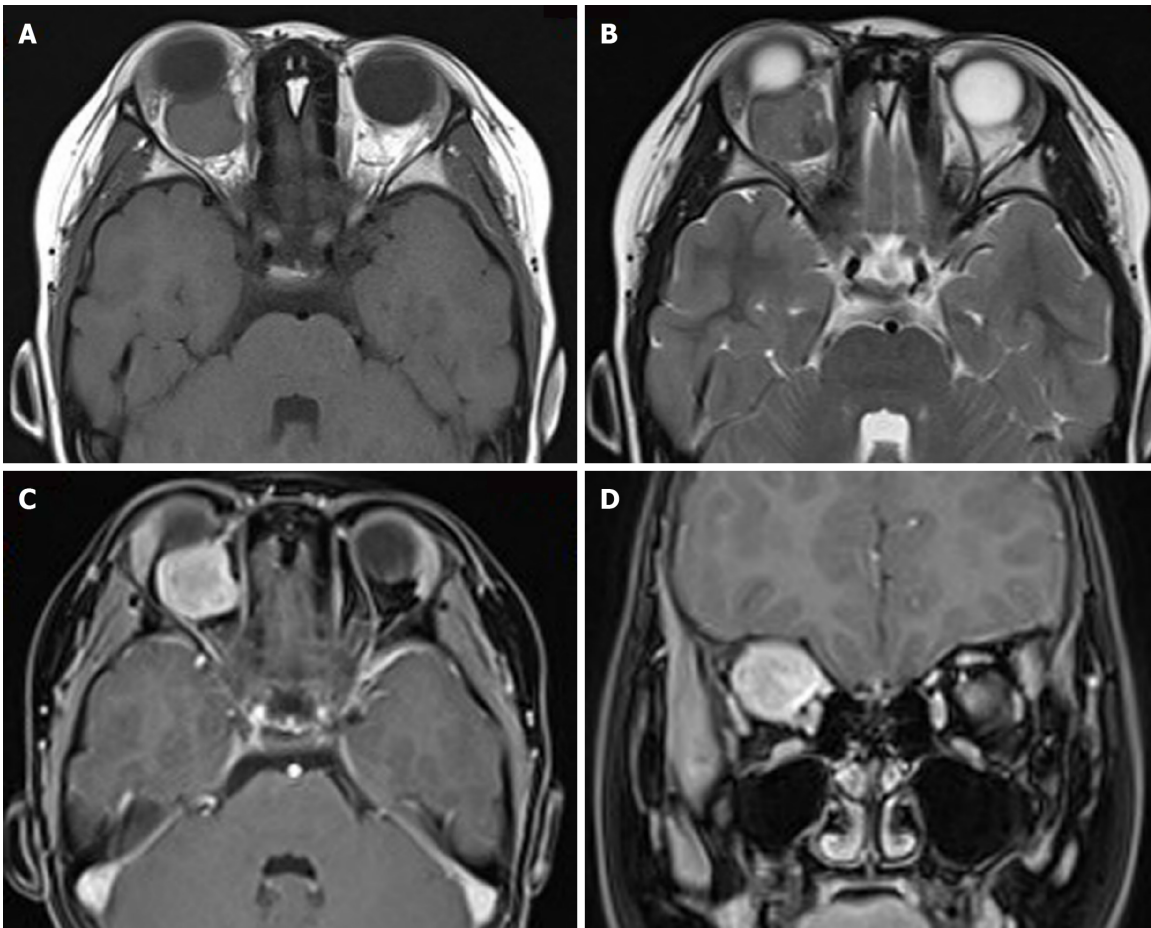


Figure 3 Orbital magnetic resonance imaging showed a circular-like mass in the right orbital. A: T1-weighted images showed moderate signals, mixed with low-signal regions; B: T2-weighted images showed mixed signals, with high number of moderately high signals, and mixed with low-signal regions; C and D: Most part of the lesion was significantly and unevenly enhanced, whereas local lesions did not exhibit any enhancement.

tomography and magnetic resonance imaging scans showed a well-defined soft tissue density mass in the right orbital. The tumor may present similar features as benign tumors. Differential diagnosis may identify findings that do not perfectly fit preliminary diagnosis of benign tumors. In such cases comprehensive consideration of clinical, radiological, and pathological findings is critically important[10].

Synovial sarcoma is a type of highly malignant soft tissue sarcoma, with poor survival of patients. Conventional treatment approach is surgical resection with adjuvant or neoadjuvant radiotherapy, which are highly effective for localized tumors. Synovial sarcoma is relatively sensitive to chemotherapy. Ifosfamide and ifosfamide combinations are effective for treatment of synovial sarcoma[5,11,12]. A combinatory treatment of doxorubicin and ifosfamide is the preferred first-line therapy for patients with metastatic cases. On the other hand, sequential doxorubicin and ifosfamide can be considered for localized tumors. Pazopanib and trabectedin are effective as second-line therapies and for subsequent treatment[11].

A previous study reported high local recurrence rates despite surgical and postoperative radiotherapy, adjuvant chemotherapy and distant metastasis rates were not reduced by these approaches[2]. The disease is characterized by early and late recurrences, and the 10-year disease-free survival is approximately 50%[5]. Several new approaches for treatment of metastatic synovial sarcoma are currently under investigation, both at preclinical and clinical levels, including receptor tyrosine kinase inhibitors, epigenetic modulators, compounds interfering with DNA damage response (DDR), and immunotherapy[11].

Histological analysis shows that synovial sarcoma is monophasic, biphasic, or poorly differentiated and exhibits a specific chromosomal translocation $t(X; 18)(p11.2; q11.2)$ in > 95% of cases[6]. Genetic analysis shows that synovial sarcoma tumors have a characteristic fusion protein, SS18-SSX, implicated in promoting disease development. BRD9 is a component of SS18-SSX containing BAF complexes in synovial sarcoma cells. Studies report that BRD9 is implicated in oncogenic

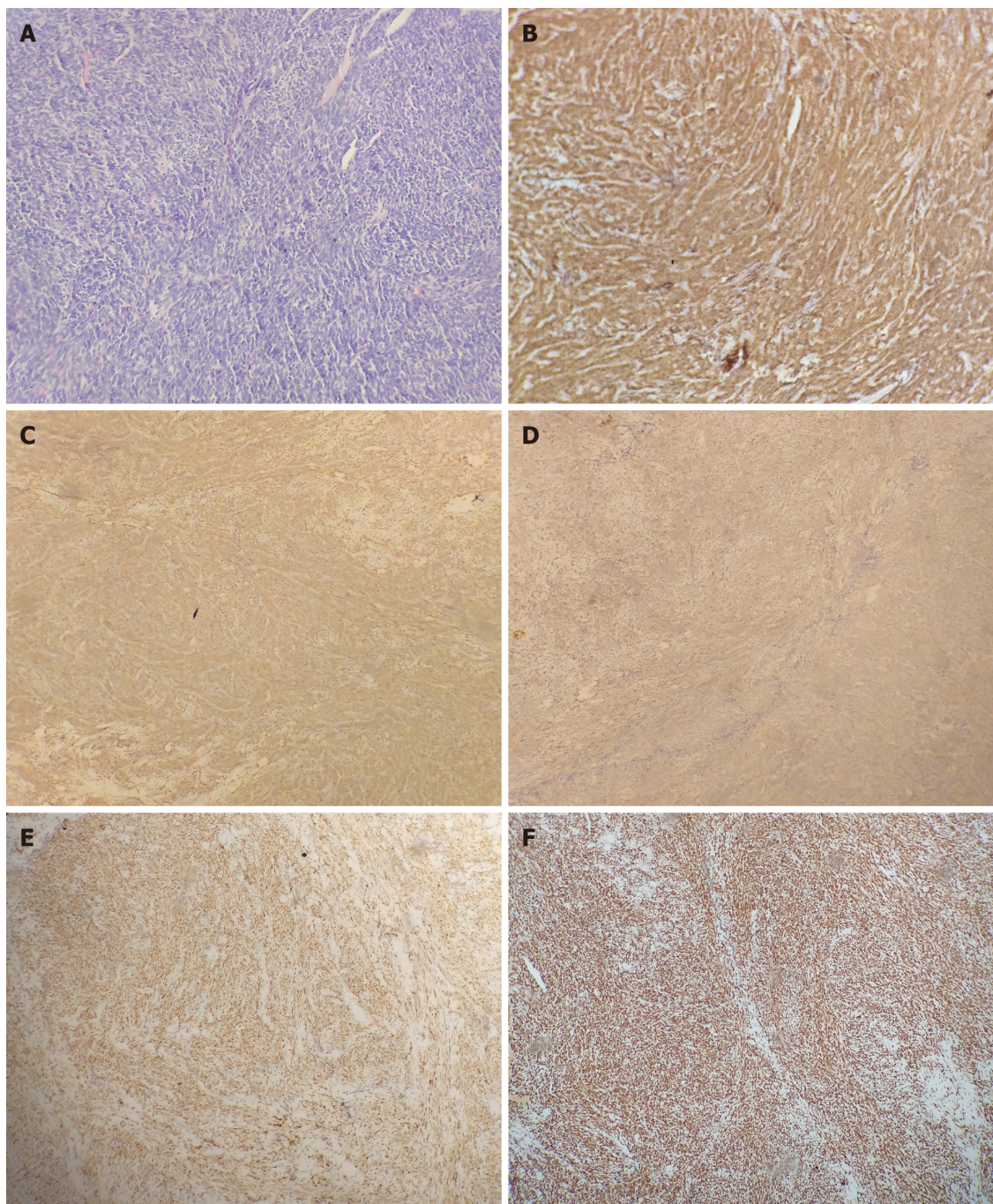


Figure 4 Histological and immunohistochemical examination. A: The tumor was confirmed as monophasic synovial sarcoma with calcification based on histological analysis (HE, $\times 200$); B-F: Immunohistochemical study revealed positive staining for Bcl-2 (B), CD99 (C), CKpan (D), TLE1 (E), and INI-1 (F) ($\times 100$).

mechanisms underlying the SS18-SSX fusion in synovial sarcoma and targeted degradation of BRD9 is a potential therapeutic approach for treatment of synovial sarcoma[13].

CONCLUSION

These findings show that primary orbital synovial sarcoma cases with calcification are rare, and clinical manifestations and imaging results are not specific. The tumor may exhibit similar features as a benign tumor. Therefore, these cases require comprehensive clinical, radiological, and pathological analysis to achieve the right diagnosis. The conventional treatment approach for surgical resection with adjuvant or neoadjuvant radiotherapy, which are highly effective for localized tumors. However, a longer follow-up time is required to determine effectiveness of the treatment.



Figure 5 It presented as a well-defined, reddish, with irregularly shaped soft tissue density mass.

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