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ABOUT COVER

Editorial Board Member of World Journal of Clinical Cases, Dr. Quach is an Associate Professor of Gastroenterology at the University of Medicine and Pharmacy at Hochiminh City, Viet Nam, where he received his MD in 1997 and his PhD in 2011. Dr. Quach has published more than 100 reviews and original papers in local and international journals. He has received several awards, including Outstanding Presentation at the Biannual Scientific Congress of Vietnamese Nationwide Medical Schools, Medal of Creativeness from the Vietnamese Central Youth League, etc. Currently, he serves as a Vice President of the Vietnam Association of Gastroenterology and Secretary General of the Vietnam Federation for Digestive Endoscopy. (L-Editor: Filipodia)

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Osseous Rosai-Dorfman disease of tibia in children: A case report

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Abstract

BACKGROUND
Rosai-Dorfman disease (RDD), or sinus histiocytosis with massive lymphadenopathy, is a benign histiocytic disorder. Extranodal involvement is common, occurring in > 40% of patients, but bone involvement occurs in < 10% of cases. In addition, primary bone RDD is extremely rare. The majority of patients are adolescents and young adults, and the mean age at onset is 20-years-old.

CASE SUMMARY
We report an 8-year-old Chinese girl who presented to our hospital with an insidious onset of swelling and pain in the middle shaft of her right tibia for 4 mo. We performed total surgical resection of the right tibia lesion and allograft transplantation. A good prognosis was confirmed at the 6 mo follow-up. Pain and swelling symptoms were totally relieved, range of motion of her right knee and ankle returned to normal, and there was no clinical evidence of lesion recurrence at last follow up. Our case is the second reported case of osseous RDD without lymphadenopathy in the shaft of the tibia of a child.

CONCLUSION
Extranodal RDD is a rare disease and can be misdiagnosed easily. Lesion resection and allograft transplantation are an option to treat extranodal RDD in children with good short term result. Pediatric orthopedist should be aware of this rare disease, especially extranodal involvement.

Key Words: Osseous Rosai-Dorfman disease; Children tibia pain and swelling; Lesion resection; Allograft transplantation; Good prognosis; Rare benign disorder; Case report

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An 8-year-old girl presented with swelling and pain in the right leg for 4 mo without lymphadenopathy.

History of present illness
She initially presented with the same symptoms in the right leg at a local hospital for treatment, and X-ray showed a lesion in the middle shaft of the right tibia. The patient was admitted to our hospital after a 3 mo delay. There has been no history of sweating at night, diminished appetite, or weight loss.

Physical examination
The patients presented with low-grade fever, swelling, and obvious pain in the middle side of the right tibia. There was limited movement of the adjacent joints and normal blood supply of the extremities, with normal neurological sensation of the tibia. There was no cervical, axillary, popliteal, or inguinal lymphadenopathy.
**Laboratory examinations**

Laboratory examination data were within normal ranges, including erythrocyte sedimentation rate, white blood cell count, C-reactive protein, rheumatoid factor, tumor markers, and urinary routine test.

**Imaging examinations**

X-ray showed right tibial lesion (Figure 1). Computed tomography revealed a similar round cystic bone defect area with sclerotic margins, the range was about 10 mm × 9 mm × 18 mm, the adjacent bone cortex was obviously thickened, periosteal reaction was visible, and no definite swelling was found in the surrounding soft tissue (Figure 2). Magnetic resonance images shows a well-defined intra-osseous lesion extending close to the posterior tibial cortex (Figure 3).

---

**FINAL DIAGNOSIS**

The results of the biopsy confirm osseous RDD (Figure 4): immunohistochemistry result: CD207 (+), S-100 (+), CD1a (-), CD68 (+), CD163 (+), Ki67 (inflammatory cell +), anaplastic lymphoma kinase (-), CD30 (-), CD5 (+), and CD20 (+); special staining: Hexamine silver (-).

---

**TREATMENT**

The patient received an open biopsy and curettage of the lesion under general anesthesia via a longitudinal anterior approach of the right middle tibia. The medial cortex of the tibia was removed by osteotome for 3 cm × 1 cm. The lesion tissue in the cavity was curetted for a biopsy. After the cavity was thoroughly irrigated, allograft bone was filled into it. Sufficient allograft bone transplant was confirmed by fluoroscopy. After the operation, the patient was given a cast for 6 wk.

---

**OUTCOME AND FOLLOW-UP**

Knee pain and swelling were relieved significantly after surgery. At the 6 mo follow-up, there was no clinical evidence of lesion recurrence; radiology test showed that the lesion had disappeared. Allograft induced osteogenesis, and the function of the right tibia was fully recovered.

---

**DISCUSSION**

More than 1282 cases have been reported with this rare condition, but only 12 cases of primary intra-osseous tibia RDD have been identified in English literature (Table 1). There has been previously only one case of intra-osseous RDD of the tibia without lymphadenopathy in a young patient[8]. RDD is much more commonly seen in males, African-Americans, and in infancy or young adult[5], and the average age of onset is 20 years. Foucar, Rosai, and Dorfman published the largest RDD analysis in 1990 and included 423 cases with a histopathological diagnosis of RDD[9]. The incidence of RDD along with primary bone involvement is rare at 2%-8%[10].

Although it is an idiopathic disorder, the occurrence of RDD frequently arises following infectious disease. Therefore, some authors suggested potential viral etiologies, including Epstein-Barr virus, human herpes virus 6, parvovirus B19, and polyomavirus Klebsiella, according to immunohistochemistry, polymerase chain reaction, and in situ hybridization studies[4-9]. Without the immunohistochemistry and molecular findings obtained in these studies, the relationship between both the virus and RDD etiology stays unclear[4].

In general, the onset of RDD is subtle, with an average interval of 3-6 mo between the appearance of signs and symptoms and diagnosis. Nonspecific systemic symptoms as fever, malaise, weight loss, and nighttime sweating can be present. The clinical image in the case of extranodal localizations depend on the organ or apparatus affected. The only systemic symptom of the patient was low-grade fever and swelling of the tibia.
Table 1 Previous cases reported as osseous Rosai-Dorfman Disease of tibia in English literature

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<th>Ref.</th>
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<td>Patterson et al</td>
<td>1997</td>
<td>1</td>
<td>17</td>
<td>Tibia</td>
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<tr>
<td>Goel et al</td>
<td>2003</td>
<td>1</td>
<td>7</td>
<td>Shaft of tibia</td>
<td>Extranodal</td>
</tr>
<tr>
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<td>2004</td>
<td>1</td>
<td>19</td>
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<td>Demicco et al</td>
<td>2010</td>
<td>6</td>
<td>11-22</td>
<td>Proximal tibia</td>
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<tr>
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<td>56</td>
<td>Tibia</td>
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<td>Mannelli et al</td>
<td>2015</td>
<td>1</td>
<td>49</td>
<td>Left proximal tibia</td>
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<td>Xu et al</td>
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Figure 1 Plain radiography at first medical examination. Radiograph shows an osteolytic lesion of the right tibia.

Figure 2 Computed tomography images of the tibia. A: Axial computed tomography image showing the purely osteolytic lesion of the right tibia. B and C: Coronal computed tomography images showing a similar round cystic bone defect area with a sclerotic margin, the range was about 10 mm × 9 mm × 18 mm, the adjacent bone cortex was obviously thickened, periosteal reaction was visible, and no definite swelling was found in the surrounding soft tissue.

Multiple large histiocytes containing abundant eosinophilic cytoplasms, including a variable cellular, combined inflammatory infiltrate composed of plasma cells, lymphocytes, neutrophils, foamy macrophages, and unusual eosinophils, are distinguished as the pathological findings of RDD in the present case. The significant characteristic of major histiocytes in RDD is prominent emperipolesis, namely lymphocytophagocytosis, with intracellular lymphocytes, plasma cells, or neutrophils[11].

The differential diagnosis of extranodal RDD of the bone is occasionally difficult
Figure 3 Magnetic resonance images of the tibia. Magnetic resonance images showing a sharply defined unclear lesion and high heterogeneous signal intensity on T1-weighted images and T2-weighted images.

Figure 4 The biopsy confirms osseous Rosai-Dorfman Disease, immunohistochemistry result: CD207 (+), S-100 (+), CD1a (-), CD68 (+), CD163 (+), Ki67 (inflammatory cell +), anaplastic lymphoma kinase (-), CD30 (-), CD5 (+), and CD20 (+); special staining: Hexamine silver (-). The orange arrow shows emperipolesis phenomenon.

because of the occurrence of clinical signs and symptoms that are nonspecific and because of lesion rarity and the less classic radiologic features observed at times\(^\text{[12]}\). Skeletal pain is common, but pathological fractures are rare\(^\text{[13]}\). Bone lesions usually occur in metaphysis or diaphysis, are osteolytic or combined lytic/sclerotic, and have a slender transition zone, and soft tissue expansion can occur. Medical differential diagnosis of pediatric bone tumors involves chronic osteomyelitis, Langerhans cell histiocytosis, fibrous dysplasia, lymphoma, and Ewing sarcoma. Femur and tibia lesions should raise questions about Erdheim-Chester disease. The prognosis of bone RDD is usually good\(^\text{[14]}\). Immunohistochemistry staining for S-100 and CD68 is helpful
in separating RDD from the above described diseases\[^{[9]}\]. In the current case, the microscopic results showed emperipolesis inside the cytoplasm of histiocytes. Immunohistochemistry was CD207 (+), S-100 (+), CD1a (-), CD68 (+), CD163 (+), Ki67 (inflammatory +), anaplastic lymphoma kinase (-), CD30 (-), CD5 (+), CD20 (+).

According to World Health Organization classification of tumors, these lesions are categorized as a reactive condition of unknown etiology\[^{[8]}\]. In 2016, histiocytes have been differentiated into five types: C, H, L, M, and R. Type R included RDD, non-Langerhans histiocytosis cells, and miscellaneous non-cutaneous. RDD itself has been divided into subtypes associated with neoplasia-associated, classical (nodal), extranodal, familial, and immune disease\[^{[6]}\].

Extranodal RDD accompanied by lymphadenopathy is seen in almost half of the cases; however, extranodal manifestation of RDD in the absence of lymphadenopathy is extremely rare in adolescents\[^{[3]}\]. The skin, respiratory tract, orbital cavity, and the central nervous system are the main extranodal sites involved, followed by skeleton solitary bone involvement in the absence of lymphadenopathy that has been noted in extremely few cases. Primary RDD of bone is usually solitary and was described in the skull, tibia, clavicle, sacrum, femur, and bones of the hands and feet\[^{[6,7]}\]. In recent studies, cranium (31%), facial bones (22%), and tibia (18%) were most commonly affected, followed by the spine/sacrum, femur, and pelvis. In addition, the primary bone disease mostly occurred in adulthood and usually affected only one or two bones\[^{[7]}\]. We have diagnosed this patient with a primary osseous RDD without lymphadenopathy or other extranodal findings, and biopsy confirmed the diagnosis. The presence of macrophages, known as Rosai-Dorfman cell histologic findings, confirm because of the aspects that are mixed together with lymphocytes, plasma cell infiltration of the lymph nodes, which is the same as mentioned in other articles\[^{[8]}\].

For many patients, spontaneous recovery of RDD occurs within months or years. Clinical non-treatment observation should be considered as the first choice no matter what. The natural history of RDD remain controversial; but it is accepted by most authors to have a benign, proliferative, and self-limiting mechanism with an excellent prognosis\[^{[2,3]}\]. There is no accepted treatment protocol for primary RDD of bone in children and young adults. Generally, patients of RDD often do not need treatment and can recover spontaneously in nearly 80% cases\[^{[2,3]}\]. However, the existence of vital organ involvement and secondary involvement of bone, which has been reported as a marker of increased risk of death, may indicate high mortality\[^{[4]}\], specifically in extreme extranodal forms in children with central nervous system, renal, or respiratory tract involvement\[^{[5]}\]. In cases of systemic implication, therapeutic options comprise possible surgical resection, corticosteroids, rituximab, and diverse chemotherapeutic agents\[^{[2-4]}\]. Primary RDD of bone is believed not to increase mortality risk, so the treatment may relieve the pain or prevent complications, especially in children that can have growth disturbance due to a pathological fracture.

The most frequent therapy mentioned in these instance include surgical lesion resection, curettage, and bone grafting\[^{[4]}\]. The post-operative relapse is very uncommon and can be caused by incomplete debulking and multiple organ implication\[^{[5]}\]. In our case, the patient underwent surgical resection of the lesion and allograft transplantation; after 6 mo follow-up, the allograft induced osteogenesis and the patient was able to use her right tibia with full function.

**CONCLUSION**

RDD is a rare disorder that is not only nodal but also extranodal. Extranodal involvement in RDD is uncommon, and bone involvement occurs in less than 10% of cases. This rare disease should be known by all pediatric orthopedists and should be regarded as a differential diagnosis when osteolytic lesions, particularly extranodal implications, occur in children. In order to evaluate the long-term safety and efficacy of these surgical procedures for children with RDD of the tibia, further research is required.

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