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Peer Reviewer of World Journal of Clinical Cases, Sanjeet Singh Avtaar Singh, MBChB, MSc, PhD, Department of Cardiothoracic Surgery, Royal Infirmary of Edinburgh, Edinburgh EH16 4SA, United Kingdom. sanjeetsinghtoor@gmail.com

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RESPONSIBLE EDITORS FOR THIS ISSUE

Production Editor: Si Zhao; Production Department Director: Xu Guo; Cover Editor: Jin-Lei 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, Salim Surani, Jerzy Tadeusz Chudek, George Kontogeorgos,

EDITORIAL BOARD MEMBERS

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

PUBLICATION DATE

April 6, 2024

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ARTICLE PROCESSING CHARGE

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ONLINE SUBMISSION

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World J Clin Cases 2024 April 6; 12(10): 1785-1792

DOI: 10.12998/wjcc.v12.i10.1785 ISSN 2307-8960 (online)

CASE REPORT

Jaffe-Campanacci syndrome resulted in amputation: A case report

Jun Jiang, Min Liu

Specialty type: Medicine, research and experimental

Provenance and peer review:

Unsolicited article; Externally peer reviewed.

Peer-review model: Single blind

Peer-review report's scientific quality classification

Grade A (Excellent): 0 Grade B (Very good): B Grade C (Good): 0 Grade D (Fair): 0 Grade E (Poor): 0

P-Reviewer: Katanec T, Croatia

Received: October 28, 2023 Peer-review started: October 28, 2023

First decision: January 17, 2024 Revised: January 30, 2024 Accepted: March 13, 2024 Article in press: March 13, 2024 Published online: April 6, 2024



Jun Jiang, Min Liu, Department of Pediatric Surgery, West China Hospital of Sichuan University, Chengdu 610041, Sichuan Province, China

Corresponding author: Jun Jiang, MSc, Associate Chief Physician, Department of Pediatric Surgery, West China Hospital of Sichuan University, No. 37 Guoxue Lane, Chengdu 610041, Sichuan Province, China. jiangjun5@wchscu.edu.cn

Abstract

BACKGROUND

Jaffe-Campanacci syndrome (JCS) is a very rare syndrome. The treatment of JCS is more conservative, and most authors recommend that no surgery should be done in asymptomatic patients. The conventional concept holds that the natural course of non-ossifying fibromas (NOFs) grows with the development of bones, and the osteolytic region gradually stops expanding and self-healing through bone ossifying around the lesion and ossification within the lesion. But in this case, the bone lesions were potentially biologically aggressive, which led to severe limb deformities and pain.

CASE SUMMARY

We present the case of a 5-year-old girl with JCS presenting with not only NOF sand café-au-lait macules, but also showed features not mentioned before, severe limb pain, and at last resulted in amputation. She was admitted to our hospital after presenting with claudication and mild pain over her right thigh, which worsened when stretching or being touched. Skin examination revealed multiple café-au-lait macules on the neck, arm, axilla, and torso, including the nipples and perineum. Radiographs revealed multiple lytic lesions in the proximal part of the right humerus, distal part of the right clavicle, proximal and distal parts of the right femur, and proximal parts of the right tibia and fibula. Curettage and biopsy were performed on the distal part of the right femur. At the age of 7, the girl was re-admitted to our hospital for a pathological fracture in the middle in the right femur and underwent Intralesional excision, internal fixation, bone grafting, and spica casting. At the age of 10, the girl came to our hospital again for severe pain of the right leg. Amputation from the middle level of the right femur was performed. We present the case of a 5-year-old girl with JCS presenting with not only NOFs and café-au-lait macules, but also showed features not mentioned before, severe limb pain, and at last resulted in amputation. She was admitted to our hospital after presenting with claudication and mild pain over her right thigh, which worsened when stretching or being touched. Skin examination revealed multiple café-au-lait macules on the neck, arm, armpit, and torso, including the nipples and perineum. Radiographs revealed multiple lytic lesions in the

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proximal part of the right humerus, distal part of the right clavicle, proximal and distal parts of the right femur, and proximal parts of the right tibia and fibula. Curettage and biopsy were performed on the distal part of the right femur. At the age of 7, the girl was re-admitted to our hospital for a pathological fracture in the middle in the right femur and underwent Intralesional excision, internal fixation, bone grafting, and spica casting. At the age of 10, the girl came to our hospital again for severe pain of the right leg. Amputation from the middle level of the right femur was performed.

CONCLUSION

In our opinion, education on preventing pathological fractures and explaining the consequent serious consequences to the parents is a matter of prime significance. At the same time, prophylactic treatment (restricted exercise, support, or surgery) is also considerable for JSC.

Key Words: Jaffe-Campanacci syndrome; Multiple non-ossifying fibromas; Café-au-lait macule; Amputation; Case report

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Core Tip: Jaffe-Campanacci syndrome (JCS) is exceedingly rare. In this case, a 10-year-old girl with JCS presented with not only non-ossifying fibromas and café-au-lait macules, but also showed features not mentioned before, severe limb pain, and at last resulted in amputation. This case is a big failure with a tragic ending and has revelatory educational value to all orthopaedic surgeons. We aim to share our failures in treatment and remind other doctors that not every JSC grows with bone development and can be self-healing. We highly recommend education on preventing pathological fractures and explaining the consequent serious consequences to the parents is a matter of prime significance. At the same time, prophylactic treatment (restricted exercise, support, or surgery) is also considerable for JSC.

Citation: Jiang J, Liu M. Jaffe-Campanacci syndrome resulted in amputation: A case report. World J Clin Cases 2024; 12(10): 1785-

URL: https://www.wjgnet.com/2307-8960/full/v12/i10/1785.htm

DOI: https://dx.doi.org/10.12998/wjcc.v12.i10.1785

INTRODUCTION

Jaffe-Campanacci syndrome (JCS) is a very rare syndrome that was first described by Jaffe in 1959[1]. In 1983, Campanacci et al[2] reported 10 similar cases. The term "Jaffe-Campanacci syndrome" was first used in an article by Mirra et al[3] in 1982. To date, 22 cases of JCS have been reported in English literature (6 of 10 cases reported by Campanacci et al[2]), all of which were sporadic cases. Presently, most scholars describe it as an ill-defined syndrome associated with nonossifying fibromas (NOFs), skin manifestations (café-au-lait macules), and other extraskeletal anomalies. Some scholars consider axillary freckles to be an important feature of JCS[4-6]. The café-au-lait macules are usually in the shape of the "coast of California". In most cases, JSC patients were treated conservatively, if pathological fracture occurs, surgery would be necessary.

CASE PRESENTATION

Chief complaints

A 10-year-old Chinese girl was admitted to our hospital for severe pain accompanied by shortening and deformity of the right leg.

History of present illness

Five years ago, the patient (5-year-old) came to our hospital after presenting with claudication and mild pain over her right thigh, which worsened when stretching or being touched. Radiographs revealed multiple lytic lesions in the proximal part of the right humerus, distal part of the right clavicle, proximal and distal parts of the right femur, and proximal parts of the right tibia and fibula (Figure 1). Curettage and biopsy were performed on the distal part of the right femur. Histopathological examination showed spindle-shaped fibroblastic and collagenous stromal tissue, characteristic of the NOF (Figure 2), then the diagnosis of JCS was made. Conservative therapy was applied with suggestions of observation, reduction of mobility, and follow-up. Three years ago, at the age of 7, the patient was re-admitted to our hospital for a pathological fracture in the middle of the right femur. Intralesional excision, internal fixation, bone grafting, and spica casting were performed (Figure 3). During the operation, brown granulomas-like tissues were found in the cortex and marrow of the femur and were extending into the metaphysis of the distal femur. The plaster was removed one month after surgery and the patient began to walk three months postoperatively.



Figure 1 Radiographs at first hospitalization at the age of 5.

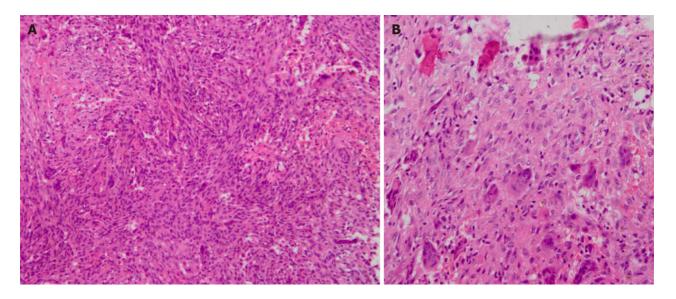


Figure 2 Histological findings. A: × 200; B: × 400. Histopathological examination showed spindle-shaped fibroblastic and collagenous stromal tissue, characteristic of non-ossifying fibroma, then diagnosis of Jaffe-Campanacci syndrome was made. Conservative therapy was applied with suggestions of observation, reduction of mobility and follow-up.

Personal and family history

Family history did not reveal any familial disease, neurofibromatosis, or bone lesions.

Physical examination

The right leg was 20 cm shorter than the left leg, with a severe curved deformity of the thigh and crus (Figure 4). During palpation, there was severe pain from the middle part of the right thigh to the upper part of the calf. The right knee joint remained in a flexed position and could not be extended or flexed. The muscles of the right lower limb were atrophied. Skin examination revealed multiple café-au-lait macules on the neck, arm, armpit, and torso, including the nipples and perineum. The patient showed no pain or itching associated with the macules. The area of the lesions covered the neck, arm, armpit, and torso including the nipple and the perineum, and had a "Coast of Maine" shape with ragged, irregular outlines. Brown granular nodules eres noted in the middle of the lesions (Figure 5).

Laboratory examinations

Laboratory testing revealed no abnormal findings. The whole exome gene test found tuberous sclerosis complex (TSC) 1 (exon7) on the chr9:135797354 had a missense mutation [NM_000368.4: c.515T>C (p. Val172Ala)] in peripheral blood.

Imaging examinations

The lytic lesions of the right femur, tibia, and fibula were larger than before, both femur and tibia were severely curved.

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Figure 3 Patient at the age of 7: X-rays before and after surgery. A: X-rays before surgery; B: X-rays after surgery.



Figure 4 Changes in the appearance of both lower limbs. A: Patient at age 5, after curettage and biopsy of the distal part of the right femur: The right leg is about 5 cm shorter than the left leg; B: Patient at age 10, before amputation: The right leg is obviously shorter than the left side and shows severe deformity of the thigh and shank.

The whole tibia was affected by the lesion with a large cortical defect in the lower part of the tibia (Figure 6).

FINAL DIAGNOSIS

Considering the results of imaging and histopathological examination we arrived at a final diagnosis of JSC.

TREATMENT

Amputation from the middle level of the right femur was performed (Figure 7).





Figure 5 Multiple café-au-lait macules were noted on the child's body.



Figure 6 Radiographs of the right humerus, right clavicle, right femur, right tibia, and fibula before amputation.

OUTCOME AND FOLLOW-UP

The wound on the right thigh healed well 2-month after surgery with no pain reoccurring, and the girl started rehabilitation. During the following 3-year follow-up, the area of the lesions did not expand with no pain or itching. She could walk and run well with the help of artificial limb.

DISCUSSION

Presently, most scholars describe JCS as an ill-defined syndrome associated with NOFs, skin manifestations (café-au-lait macules), and extraskeletal anomalies, which include mental retardation, hypogonadism, cryptorchidism, ocular anomalies, or cardiovascular malformations some. It is still controversial whether JCS is a special type of type 1 neurofibromatosis or a separate syndrome. Mirra's group suggested that JSC might clinically be considered an abortive form (forme frusta) of neurofibromatosis[3]. Colby and Saul suggested that JCS may be a manifestation of Neurofibromatosis type 1 (NF1) mutations because they studied four patients who fulfilled the diagnostic criteria for both NF1 and JCS,



Figure 7 X-ray of the right femur 1 d after amputation.

which led them to think that these two syndromes may be potentially allelic[7]. This hypothesis has not been confirmed because no genetic analysis of JCS patients has been performed before 1990 in which the *NF1* gene was identified[7,8]. In research by Stewart *et al*[8], the majority of patients with café-au-lait macules and NOFs or giant cell lesions were found to harbor a pathogenic germline *NF1* mutation, suggesting that many JCS cases may have *NF1*[8]. In this case, we found a missense mutation in tuberous sclerosis complex 1, which can cause lymphangioleiomyomatosis (LAM) or TSC. LAM is a rare, progressive, and systemic disease that typically results in cystic lung destruction. It predominantly affects women, especially during childbearing years. The term sporadic LAM is used for patients with LAM not associated with TSC, while TSC-LAM refers to LAM that is associated with TSC. However, the patient did not have any clinical manifestations of these diseases nor any matutions in *NF1* SPRED1 or guanine nucleotide binding protein 1 (exon8).

In all 22 cases have been reported in English literature, most patients were under the age of 18 and males were more than females (13 males, 9 females) (Supplementary Table 1). Three previous cases have been reported in East Asia, and, thus, the present case is the fourth[9-11]. It is interesting to find that the bone lesions and café-au-lait macules of this and another case from East Asia were unilateral—especially the abdominal café-au-lait macules which were bounded by the midline on the right and did not cross to the other side (Figure 5). The café-au-lait macules were in the shape of the "coast of Maine", rather than the "coast of California". In this case, brown granular nodules occurred in the middle of the café-au-lait macules, which was different from those described in the previous literature of JCS. The lesion feature of NF1 commonly presents as a painless skin-colored or violaceous papule, nodule, or subcutaneous mass, which is also different from this case. These features are distinct from those reported in Caucasian patients. Localized skin lesion histopathological examination was suggested, but the parents refused to do any more surgeries but the leg.

Most JCS patients are asymptomatic, the most typical extraskeletal anomalies are café-au-lait macules, some patients have axillar freckling, *i.e.*, clusters of freckle-like light brown macules with a diameter of 1 mm to 3 mm located in the armpits or other parts of the trunk. Another unusual manifestation was limb pain. The child felt mild pain after activity, which worsened gradually and extended from the thigh to the crus. The right leg became shorter and shorter with femoral and tibial flexion deformity, which seriously affected mobility and daily life. Serious pain was not reported in previous cases, the reason and mechanism are still uncertain. But it seems to be caused by the bone lesions, for the pain in the right thigh had greatly relieved after the intralesional excision surgery and became more serious as the bone lesions deteriorated. During the treatment, an arachnoid cyst was found in the occipital area of the head, which was not mentioned in previous literature.

No consensus has been reached for the treatment for JSC. In most cases, JSC patients were treated conservatively, for the simple reason as Campanacii $et\ al[2]$ found, the natural course of NOFs grows with bone development, the osteolytic region gradually stops expanding, and there will be self-healing through bone ossification around the lesion and ossification within the lesion[2]. The reason why this case is characterized by pain, and it became more and more serious with the progress of the bone lesions is uncertain. However, the lesions in this case were potentially biologically aggressive, consistent with the case described by Blau $et\ al[12]$.

If pathological the fracture occurs, curettage, grafting, and internal fixation would be necessary. Colby and Saul[7] supposed this could be because large polyostotic area lesions cause weight-bearing bones (e.g., proximal femur, proximal tibia) to become thin and brittle. When pathological fractures occur, operation is necessary[7]. As differentiation of JSC from other osteolytic lesions is sometimes difficult, some authors also recommend a two-stage operation[6]. Biopsy surgery should be performed first and then Definitive surgery followed. Of all the 22 cases of JSC reported in the English literature, 59.1% (13/22) had pathological fractures, which is much higher than the incidence of NOFs pathological fractures. The girl in the present case is the first report of amputation in JCS. There are various reasons for amputation. Firstly, the progressive aggravation of the lesions leads to severe limb deformities. After curettage, grafting, and internal fixation with a conventional plate, the lesions of the right femur and tibia were enlarged with a large defect in the lower part of the tibia, and the tibia was bent and deformed with severe shortening. As the progression of the disease, there was no way to regain either alignment or length of the leg. Secondly, the pain in the right leg is from beginning to end. When the girl had performed Intralesional excision, internal fixation, and bone grafting surgery, the pain was relieved for half a year, but then became more and more serious and gradually extended to the right crus. Before amputation, the girl had to

ease the pain by drugs every day.

There are limited reports about the long-term prognosis. The short-term prognosis of JCS with conservative treatment is good except high incidence of pathological fractures. Patients with pathological fractures gradually healed after surgery, and mobility was largely unaffected. Although there have been no reports of limb malformations in JCS, limb malformation caused by NOFs has been reported[13]. Proper intervention (restricted exercise, support, or surgery) may reduce the rate of long-term disability[7]. Given the present case, we highly recommend preventive measures for patients (especially overweight patients) with simultaneous femoral and tibial lesions who have a high risk of limb deformity. Given the close relationship between JSC and NF1, some researchers have suggested that patients diagnosed with NF1 should undergo bone examination to exclude NOFs or even JCS to prevent secondary pathological fractures[4]. However, the skin lesions of this case are different from those in other cases of JSC. Meanwhile, both the bone lesions and the pain were continuously deteriorating, leading to a poor prognosis. All these suggested the lesions in this case were potentially aggressive.

CONCLUSION

Our case showed features of JCS not mentioned before. The bone lesions and café-au-lait macules of this case were unilateral – especially the abdominal café-au-lait macules which were bounded by the midline on the right and never crossed to the other side. Another unusual manifestation was severe limb pain. Both the bone lesions and the pain were continuously deteriorating, leading to a poor prognosis. All these suggested the lesions in this case were potentially aggressive. In our opinion, education on preventing pathological fractures and explaining the consequent serious consequences to the parents is a matter of prime significance. At the same time, prophylactic treatment (restricted exercise, support, or surgery) is also considerable for JSC.

FOOTNOTES

Author contributions: Jiang J contributed to manuscript writing, editing, and data collection; Liu M and Jiang J prepared the figures and completed the surgery; Jiang J was responsible for manuscript modification; all authors have read and approved the final manuscript.

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

Conflict-of-interest statement: All the authors report no relevant conflicts of interest for this article.

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).

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Country/Territory of origin: China

ORCID number: Jun Jiang 0000-0003-1147-1353; Min Liu 0000-0002-2149-3794.

S-Editor: Che XX L-Editor: A P-Editor: Zhao S

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