



The Use of Platelet-Rich Plasma in the Treatment of Unicameral Bone Cysts of the Proximal Femur: A Case Report

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Clinical Image

Unicameral bone cysts are benign bone lesions that are often asymptomatic and commonly develop in the proximal humerus and femur of skeletally immature patients. The treatment of unicameral bone cysts has numerous approaches and a universal strategy has not been defined yet. We report a case of a large unicameral bone cyst of the proximal femur (Figure 1), in an 8-years old Caucasian male, treated with a combination of methylprednisolone acetate and Platelet-Rich Plasma (PRP) [1]. We started the treatment with percutaneous conventional corticosteroids injections.



Figure 1: A large unicameral bone cyst of the proximal femur.

OPEN ACCESS

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Received Date: 09 May 2018

Accepted Date: 14 May 2018

Published Date: 21 May 2018

Citation:

Pantalone A, Polidoro F, Andreoli E, Salini V. The Use of Platelet-Rich Plasma in the Treatment of Unicameral Bone Cysts of the Proximal Femur: A Case Report. *Annals Stem Cell Regenerat Med.* 2018; 1(1): 1008.

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Figure 2: The first unsatisfactory radiographic controls.



Figure 3: An open access to the lesion.

After the first unsatisfactory radiographic controls (Figure 2), we opted for the use of PRP only. The use of intralesional PRP injections has fastened and completed the healing of the bone cyst (Figure 3) compared to the corticosteroid treatment, not requiring an open access to the lesion. So we got a fast and complete healing of the lesion without any procedure-related complication and a minimal invasive procedure [2]. The use of PRP in the treatment of corticosteroid injection resistant unicameral bone cysts should be considered a safe and effective procedure.

References

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