

Lipoma arborescens (LA) in childhood: Case report and systematic review of the literature



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Introduction

LA

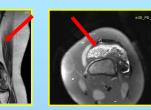
- Rare benign lesion of synovium
- Proliferation of mature fat cells in subsynovial layer
- More often in the knee of young adults (primary)
- Causes chronic effusions & restricted ROM

<u>Case Report</u>

9 y. o. girl with left knee effusion and painful ROM limitation since a year

Plain radiograph and laboratory parameters negative $MRI(a) \rightarrow$ nodular and frond-like villous proliferation of synovial tissue in the suprapatellar pouch without enhancement after contrast agent IV

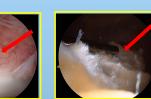




Treatment:

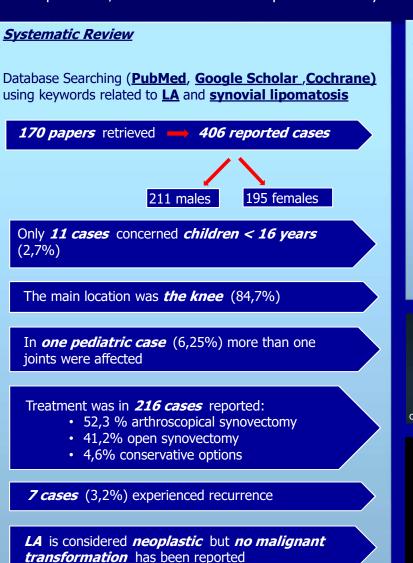
Arthroscopical Synovectomy (b)





Histopathological analysis confirmed the diagnosis

Outcome: Asymptomatic in a 36 m – follow up



<u>Conclusions</u>

- LA should be considered when diagnosing chronic intra-articular effusions (c)
- MRI is the gold standard due to pathognomonic appearance (d)
- Arthroscopic (vs. open) synovectomy is safe and effective therapeutic approach because of minimal morbidity and early functional recovery with comparable low rate of recurrence (e)



