



PROXIMAL TIBIOFIBULAR JOINT CYSTS

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Disclosure

- Consultant: Arthrex, NewClip Technics
- Royalties: NewClip Technics, X Nov

Introduction

Incidence

Rare

<1% of patients undergoing MRI for knee pain

Demographics

age: 20-76 years old

Female

Pathophysiology:

Non-malignant, fluid-filled sacs

Degeneration or trauma leads to synovial fluid extrusion and cyst formation.

Schwimmer et al. Radiology1985

Classification

Location of cyst

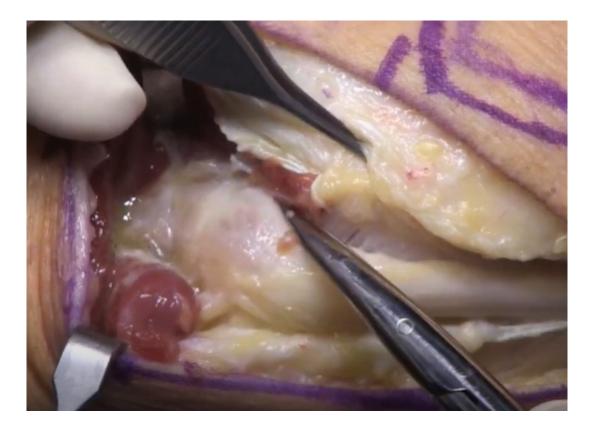
intraneural within epineurium or extraneural outside of epineurium

Gibbons et al. J Arthropl 1999

Developed from the articular capsule:

No capsular attachments: "ganglion migrans" Attached to articular capsule by a fibrous attachment

llahi et al. Arthroscopy 2003



Clinical Presentation

Symptoms:

Non symptomatic+++

Pain and swelling

Mechanical symptoms: clicking

Peroneal nerve compression: foot drop or paresthesia.

• Examination:

Palpable mass over proximal fibula.

Tenderness or fluctuation.

Neurological examination +++



Lateur et al. Int Orthop 2017

Imaging

1.X-rays:

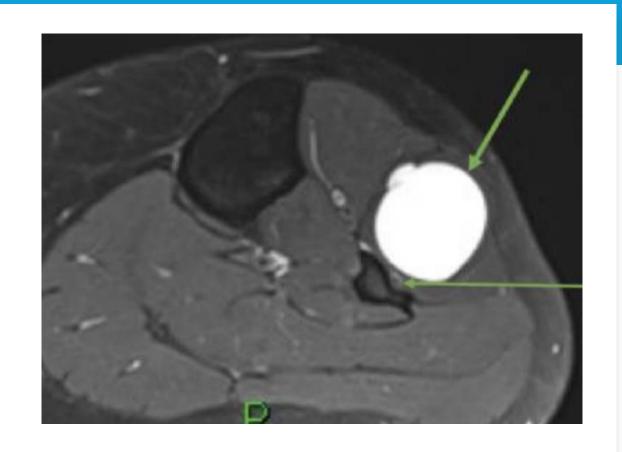
Degenerative changes or joint widening. Sclerotic lesions on lateral aspect of proximal tibia



Imaging

2. MRI:

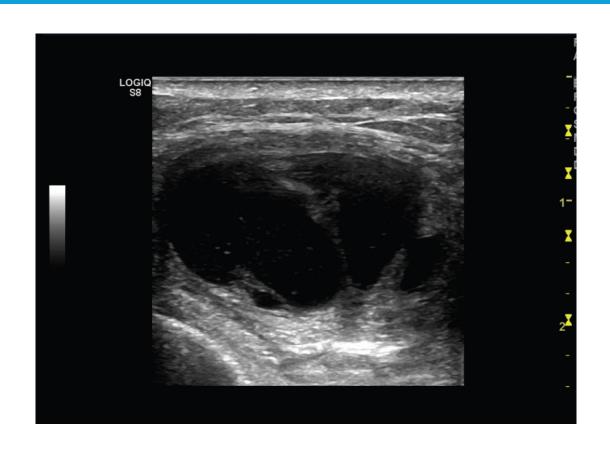
Gold standard for identifying cyst size, location, and soft tissue involvement.



Imaging

3. Ultrasound:

Useful for guided aspiration or initial evaluation.



1. Conservative Management:

Aspiration with or without corticosteroid injection. Under ultrasound guidance



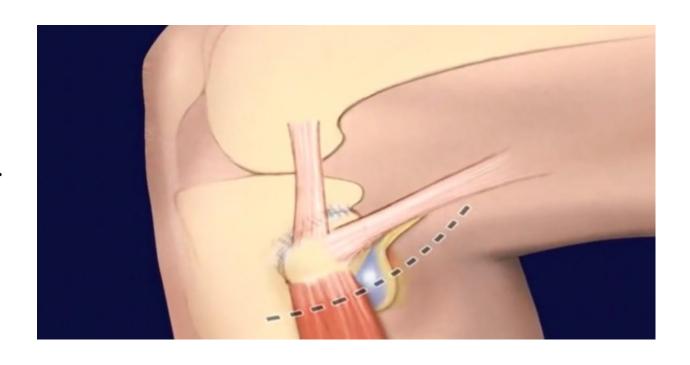
2. Surgical Management:

Lateral approach

CF nerve dissection

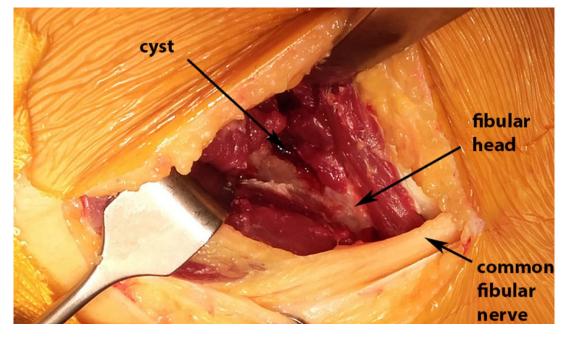
Nerve Decompression: Required for cases with peroneal nerve involvement.

Complications: perineural fibrosis or nerve injury



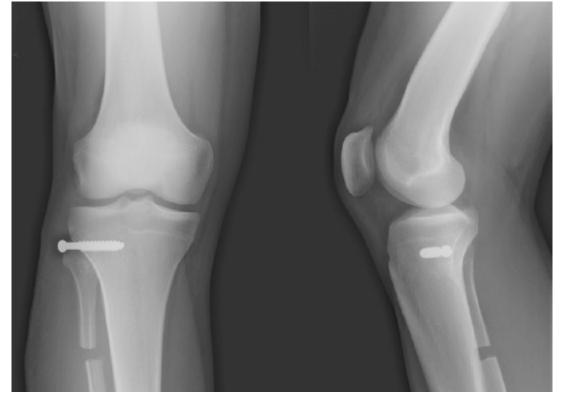
- 2. Surgical Management:
- Cyst Excision:

+/- associated ligation of the articular branch



Lateur et al. Int Orthop 2017

- 2. Surgical Management:
- Joint resection / Arthrodesis: Indicated for recurrent cysts.



Lateur et al. Int Orthop 2017

Outcomes

Intervention	Symptoms resolution	Recurrence (%)
Aspiration/injection	100%	81.8% primary 100% revision
Cyst excision	100%	27.4% Branch ligation 22% vs 36% without
Joint resection	100%	8.3%
Arthrodesis	100%	0%

Huntington et al. The Knee 2022

Conclusion

PTFJ Cysts:

- Rare
- Surgery indications:
 Aspiration / injection failure
 Nerve compression
- Cysts excision: primary surgery
- Recurrence: Joint resection or arthrodesis



Papanastassiou et al.Clin Orthop Relat Res 2019



Thank you