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# The Hidden Lesion of the Knee: Risk Factors Study

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## Disclosures:

- Authors (or a member of their immediate family) **DO NOT** have a financial interest or other relationship with a commercial company or institution.
- Authors declare that there is **NO CONFLICT OF INTEREST.**



# BACKGROUND:

- Meniscal ramp lesions (MRL), once considered rare, are associated with anterior cruciate ligament rupture (ACL)
- Arthroscopic surgery has led to the discovery of an increasing number of MRL that are not diagnosed preoperatively



# OBJECTIVE:

- The aim of our work was to study the frequency and risk factors of meniscal ramp lesions



# METHODS:

- We studied retrospectively the last 100 patients operated for ACL rupture between 2019 and 2020
- We looked for factors involved in the genesis of these lesions



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# METHODS:

- MRI sensitivity, specificity, reliability and predictive values were calculated
- Lesional associations were sought



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# RESULTS:

- The frequency of MRL was 25%
- This injury was more frequent in male (85%) sportsmen (69%) under 30 years old (61%) and the trauma causing this type of injury was a sports accident (76%), of the leaning type (84%) affecting the dominant side (88%)



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# RESULTS:

- The only parameter with a statistically significant result was the duration of the trauma
- In our work MRI had a sensitivity of 72%, specificity of 75%, negative predictive value of 89% and positive predictive value of 49%
- Based on these results, the reliability of MRI was 74%



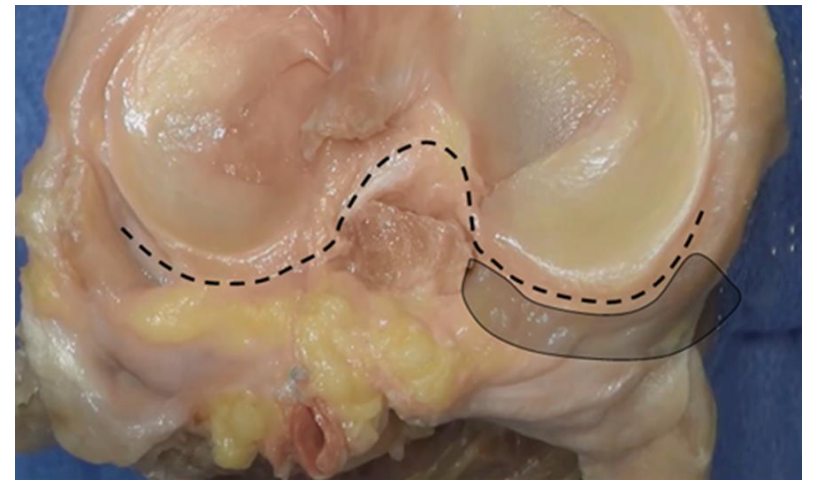
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# DISCUSSION:

- Meniscal ramp lesion is not rare but rather underdiagnosed [1]
- Preoperative exploration (MRI) is insufficient for meniscal ramp lesion diagnosis [2,3]



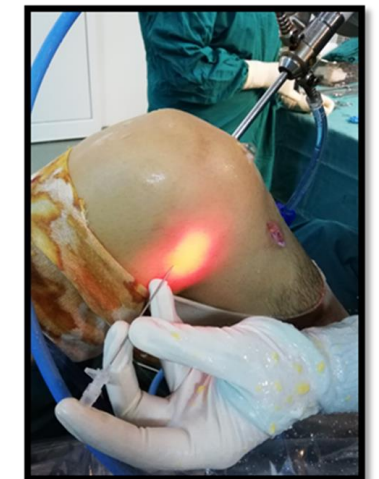
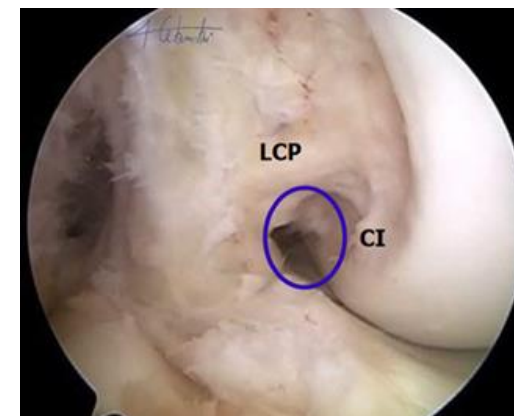
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# DISCUSSION:

- Arthroscopic surgery is considered as the "gold standard" in the diagnosis of MRL but the classical approaches remain insufficient to fully explore and repair these lesions [4,5]
- A well-codified diagnostic process, including adequate arthroscopic technique, must be systematic [6]



# CONCLUSION:

- Meniscal ramp lesion has diagnostic particularities: MRI imaging has insufficient detection and with arthroscopic surgery lesions may go unnoticed
- Faced with the risk of ACL ligamentoplasty failure if the ramp is not repaired, a codified protocol and recommendations are necessary



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