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Knee Pain Frequently Improves 1 Year After Foot or Ankle Surgery

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Disclosures

Dr David Carmody, Dr Lucy Salmon, Ka Martina

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Introduction & Aim

- Osteoarthritis frequently affects multiple joints through the lower limbs.
- Ankle pain is associated with increased odds of incident symptomatic knee pain in observational studies [1-3]
- Foot deformity such as flatfoot is associated with more severe OA-related knee symptoms [4]
- This study sought to examine the prevalence of knee pain, and any post operative change in knee pain of subjects undergoing foot or ankle surgery

It's a Stretch



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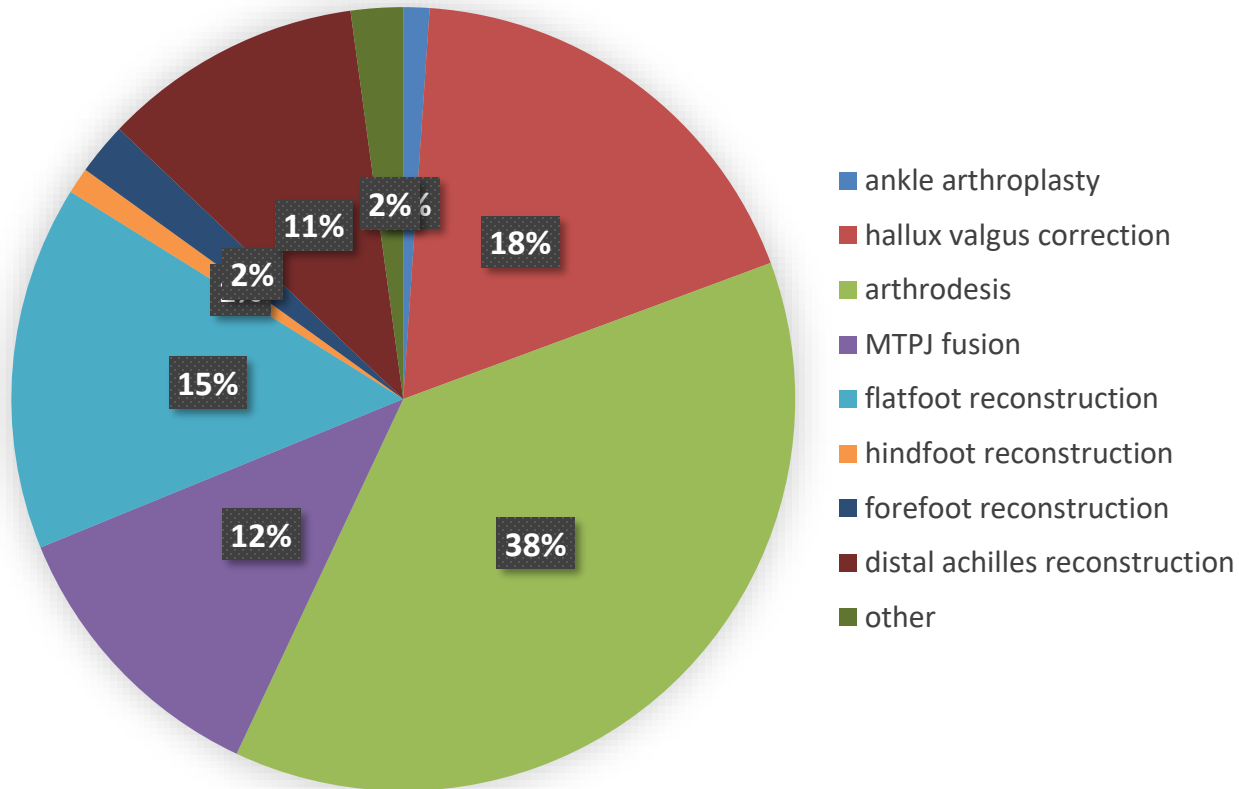
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Study Group

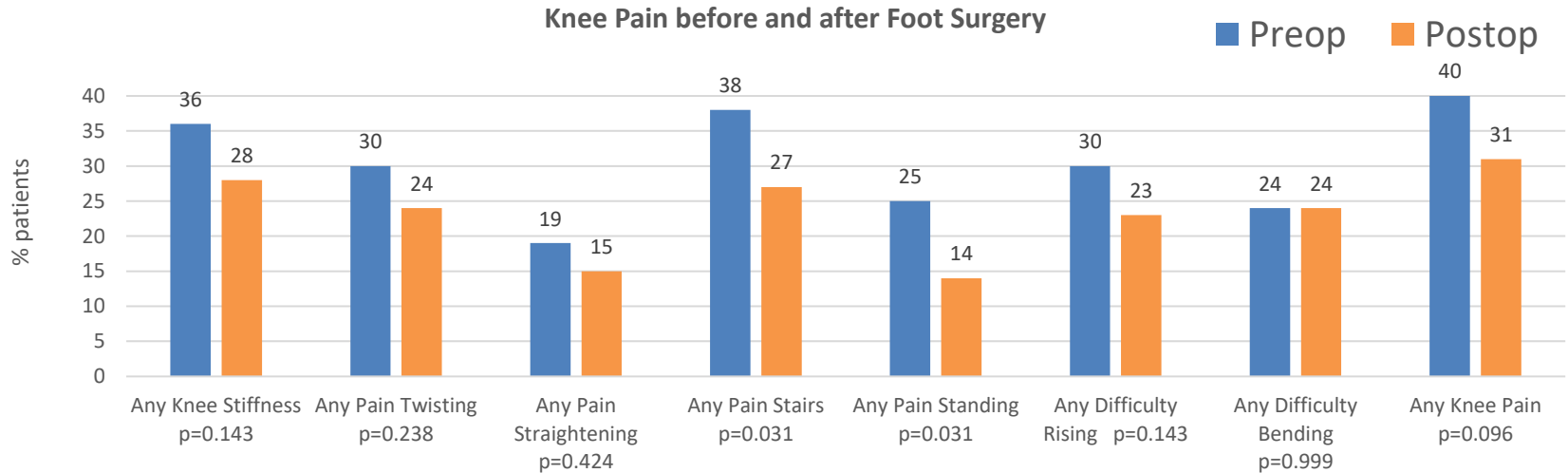
- Foot or ankle surgery for degenerative condition between 2020 and April 2024
- Consent to participate in a prospective research database
- Completion of baseline and 1 years PROMs
 - FAOS (foot specific survey)
 - KOOS JR (knee specific survey)
 - EQ5D (general health measure)
 - Satisfaction with surgery at 1 year postop

Baseline Characteristics	
Median age, yrs (IQR)	65 (17)
Women, n (%)	56 (60%)
Left side, n (%)	46 (50%)
Median baseline BMI, kg/m ² (IQR)	27 (7)

Surgery Type

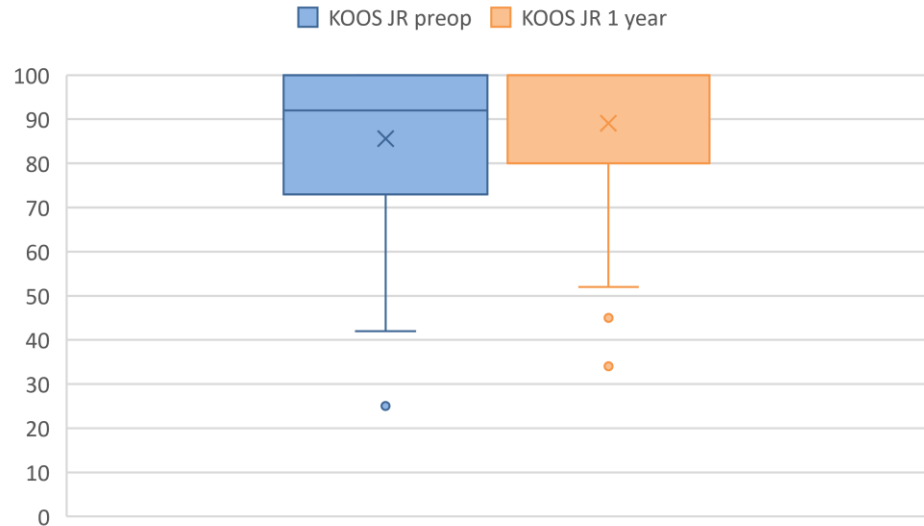


Baseline and 1 year Knee Pain



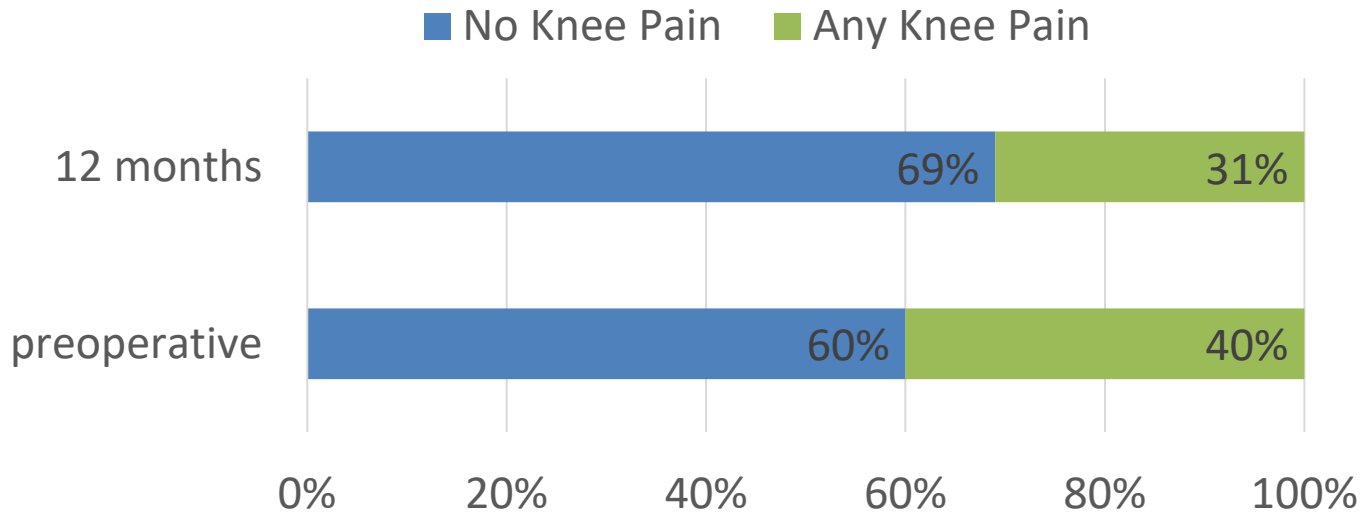
- Knee pain with standing and stairs significantly decreased from baseline to 1 year

Baseline and 1 year Knee Score



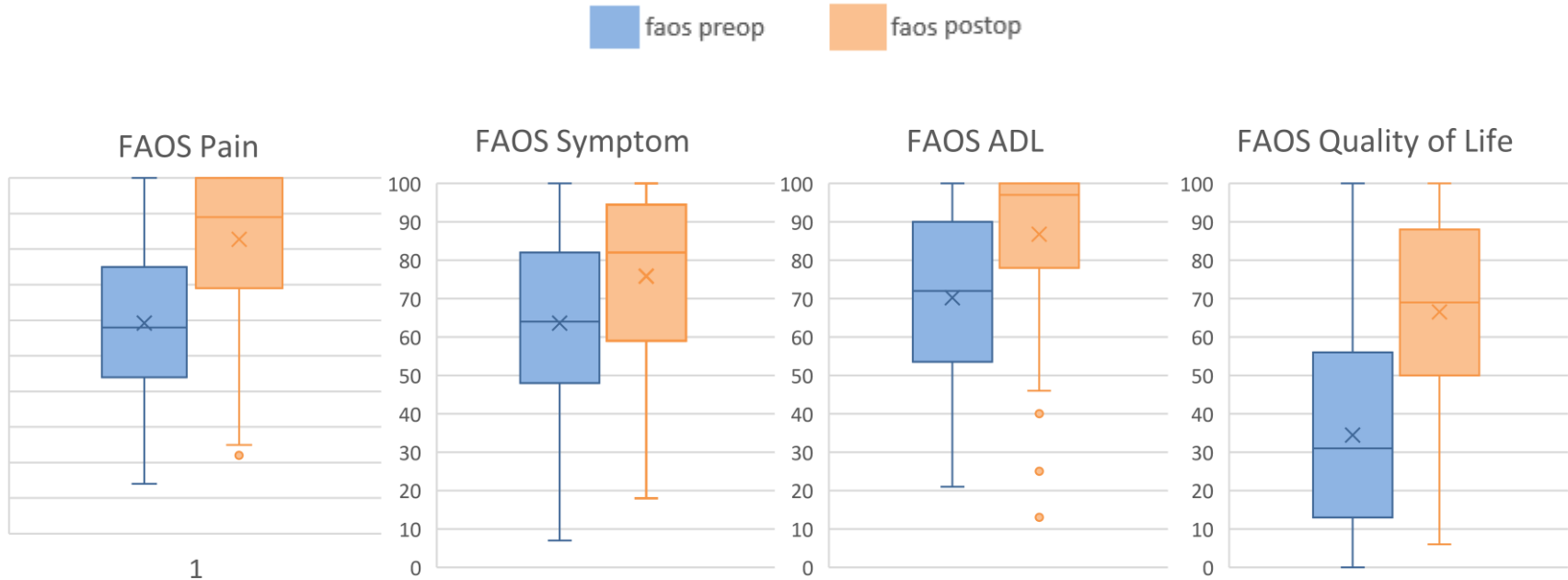
- A small magnitude but statistically significant increase in the median KOOS Knee Score from 92 before surgery to 100 after surgery ($p=0.041$) was observed.

Prevalence of Knee Pain



- Of those reporting any baseline knee pain, 65% reported no knee pain at 12 months after foot surgery.

Baseline and 1 year FAOS Scores



There was a significant improvement in all FAOS domains from preop to 1 year ($p < 0.001$)

Satisfaction

	No Knee Pain n=56	Any Knee Pain n=37	P
Satisfied or Very Satisfied (%)	85%	77%	0.355
Same Surgery Again (%)	85%	80%	0.472

No difference in the % satisfied with surgery, would have the same surgery again between the knee pain and no knee pain group at 12 months.

Conclusion

- 40% of foot surgery patients reported baseline knee pain
- Knee pain improved for 65% after foot surgery
- Presence of baseline knee pain does not appear to negatively impact the outcome of foot surgery

References

1. Paterson KL, Kasza J, Hunter DJ, et al. Longitudinal association between foot and ankle symptoms and worsening of symptomatic radiographic knee osteoarthritis: data from the osteoarthritis initiative. *Osteoarthritis Cartilage*. 2017;25:1407-1413.
2. Paterson KL, Kasza J, Hunter DJ, et al. The relationship between foot and ankle symptoms and risk of developing knee osteoarthritis: data from the osteoarthritis initiative. *Osteoarthritis Cartilage*. 2017;25:639-646.
3. Perry TA, Segal NA, Bowen C, Gates L, Arden N, Nevitt MC. Foot and ankle pain and risk of incident knee osteoarthritis and knee pain: Data from the Multicentre Osteoarthritis Study. *Osteoarthritis and cartilage open*. 2021;3:100210.
4. Zhang M, Nie M-d, Qi X-z, et al. A Strong Correlation Between the Severity of Flatfoot and Symptoms of Knee Osteoarthritis in 95 Patients. *Frontiers in Surgery*. 2022;Volume 9 - 2022.