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# Effect of COVID-19 Cancelled Elective Surgeries on Outcomes of Hip Arthroscopy: A Matched-Cohort Study

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# Disclosures:

The authors have no financial disclosures



# Background

- A large city hospital cancelled elective surgeries during the beginning of the COVID pandemic
  - Booked hip arthroscopy cases were to be rescheduled when elective surgeries resumed
  - No new hip arthroscopy cases could be booked during this period
- Elective surgeries resumed in mid-June 2020 including hip arthroscopy
- All patients required to have COVID test prior to surgery
  - Positive tests would require additional delay of 21 days minimum before rescheduling surgery



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# Study Aims

1. To determine minimum 1-year patient reported outcomes for patients who underwent hip arthroscopy during the 3-month period following the resumption of elective surgeries at the hospital and compare the outcomes to age-, BMI-, and sex- matched patients who underwent hip arthroscopy with the senior surgeon in 2018-2019 prior to the pandemic
2. To determine whether average duration of symptoms for patients who underwent hip arthroscopy during the COVID pandemic increased, possibly due to system-wide elective surgery cancellations



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# Methods

- 22 patients had primary hip arthroscopies with the senior surgeon from mid-June 2020 to mid-September 2020
- Excluded: Patients with revision hip arthroscopies or required concomitant procedures such as a PAO
- Age-, BMI-, Sex- matched cohort for the 22 patients was created from patients undergoing primary hip arthroscopy with the senior surgeon in 2018-2019

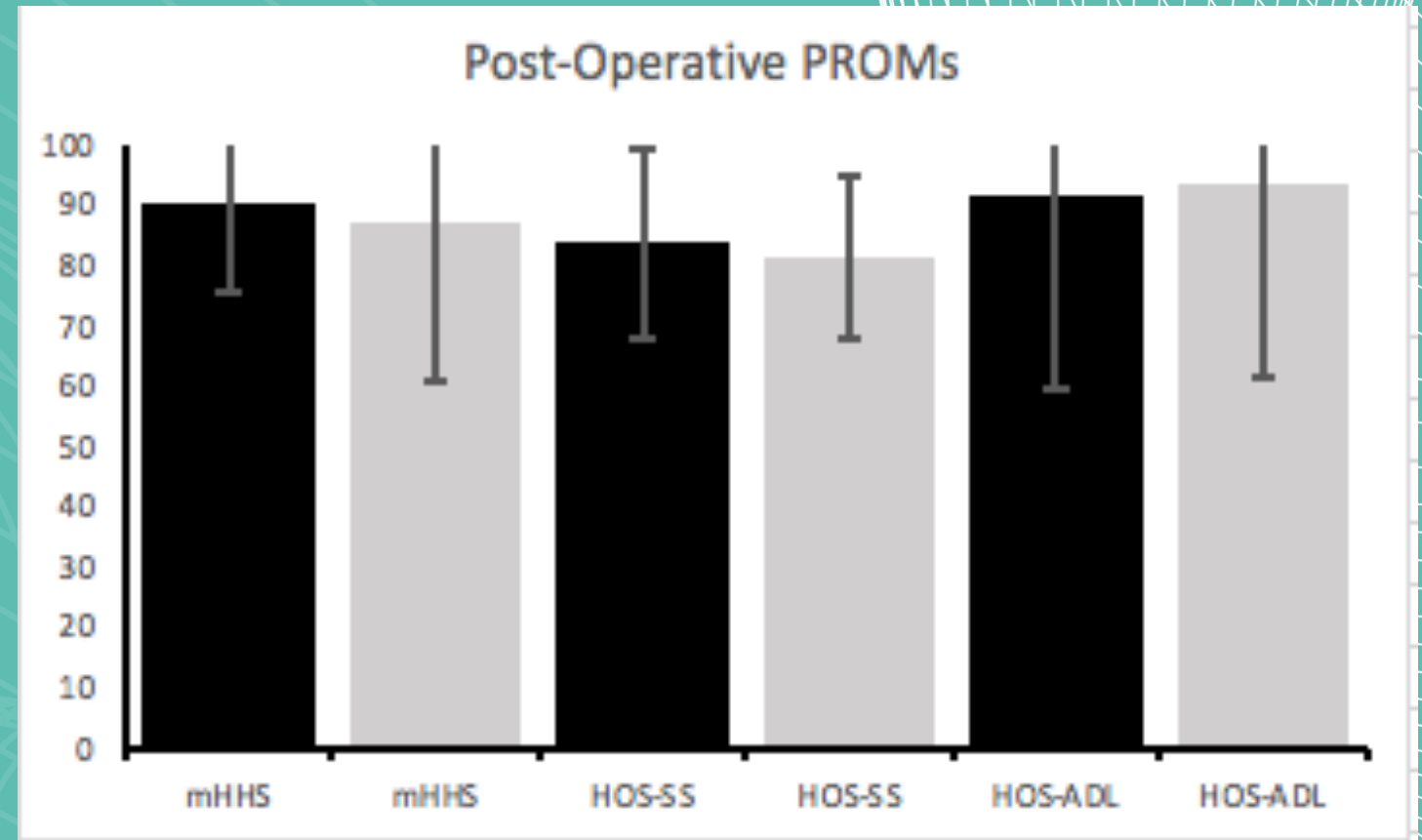
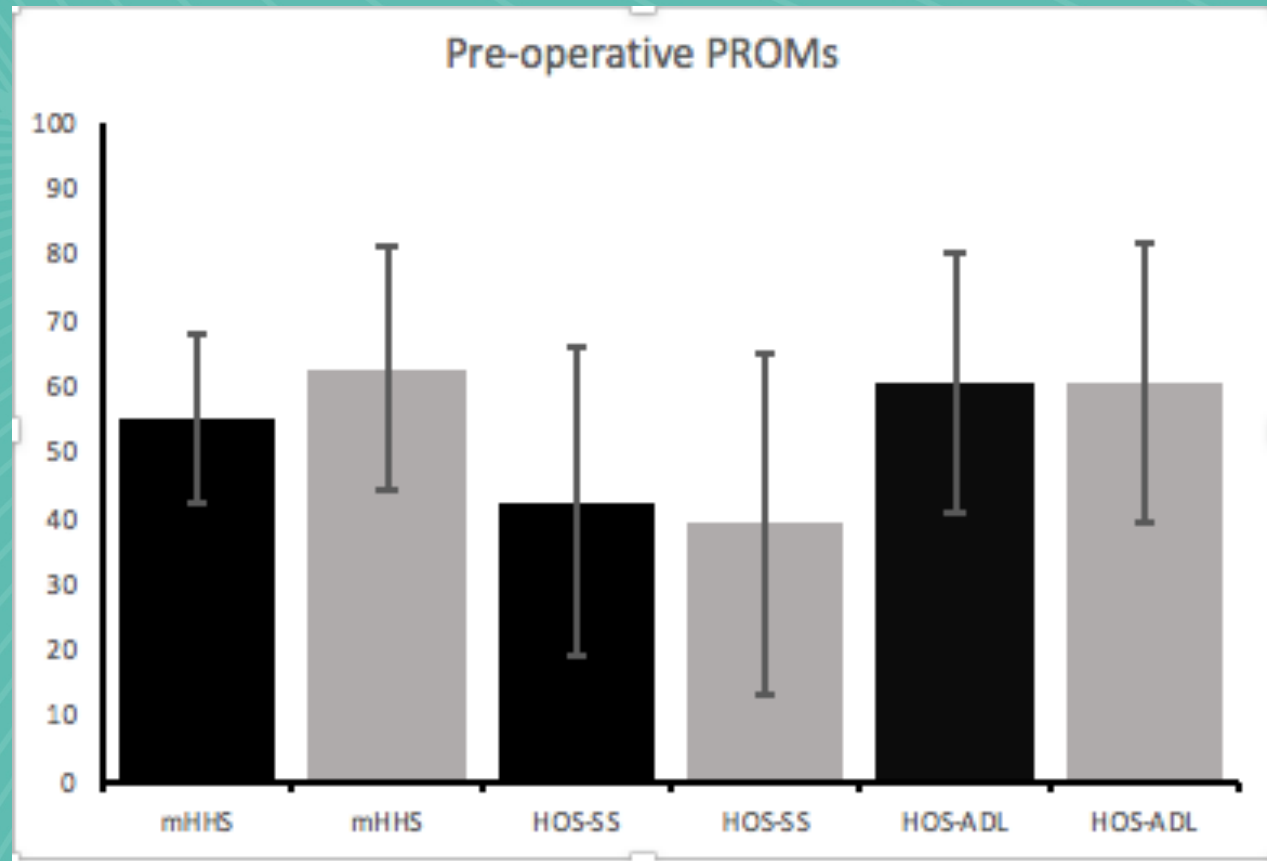


# Results

	Post-COVID cohort	Pre-COVID cohort	P-value
Age	36.2 (12.0)	36.0 (12.0)	
BMI	25.7 (4.4)	25.9 (4.6)	
Sex			
Male	14	14	
Female	8	8	
Alpha angle	61.9 (9.3)	64.75 (7.9)	
LCEA	32.7 (5.6)	29.72 (6.5)	
Duration of symptoms	5.2 (5.9)	3.5 (3.4)	0.112



# Results (cont.)



- In the figures, the black bars represent the post-COVID cohort while the gray bars represent the pre-COVID cohort
- No significant difference in the PROMs between the pre- and post-COVID cohorts



# Results (cont.)

- 1 patient received positive COVID-19 test results during surgery booking and had to postpone the surgery for 3 weeks
- 1 patient received positive COVID-19 test results in the week following the surgery and had to do post-operative visits via telehealth
- In the post-COVID cohort, 0 patients required conversion to THA or a revision arthroscopic procedure with minimum 1-year of follow-up



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## Discussion:

- In both cohorts, the survivorship of hip arthroscopy was 100% with no revisions or THR.
- Telehealth pre-operative visits and post-operative follow-up did not affect short-term outcomes of hip arthroscopy
- No significant difference between short-term PROs or survivorship in the post-COVID cohort vs. the pre-COVID cohort.
- **Patients on average had to wait longer for their surgeries post-COVID cancellations—possibly due to cancellations, but also possibly due patient fears**



# Conclusion

- From a single surgeon's perspective, there is overall no inferiority in short-term PROMs for patients who underwent hip arthroscopy during the COVID pandemic in comparison to a matched cohort that underwent hip arthroscopy in 2018-2019



# References

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