Statistical Analysis Report (SAR)

Association between KOOS scores and OTC analgesic use in patients using knee-braces

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Association between KOOS scores and OTC analgesic use in patients using knee-braces

Document version

Version	Alterations
01	Initial version

1 ABBREVIATIONS

- 2 CONTEXT
- 2.1 Objectives
- 2.2 Data reception and cleaning
- 3 METHODS
- 3.1 Study parameters
- 3.1.1 Study design
- 3.1.2 Inclusion and exclusion criteria
- 3.1.3 Exposures
- 3.1.4 Outcomes
- 3.1.5 Covariates
- 3.2 Statistical analyses

This analysis was performed using statistical software R version 4.1.3.

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RESULTS 4

4.1 Study population and follow up Table 1 caption

Baseline characteristics	N = 10
Sex, n (%)	
F	7 (70%)
М	3 (30%)
Age (years), Mean (SD)	49 (12)
VAS score, Mean (SD)	7.70 (2.31)
KOOS score, Mean (SD)	0.48 (0.14)

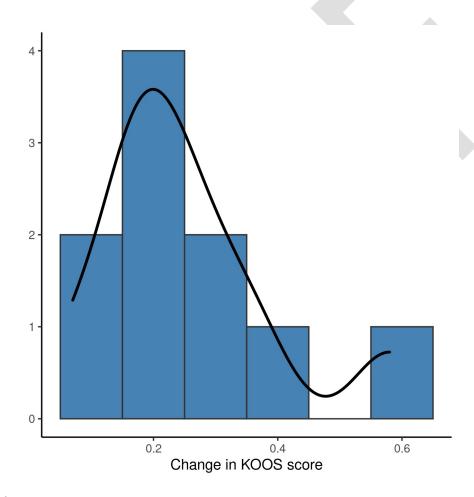


Figure 1 caption

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Table 2 caption

Characteristic	N = 10
Change in KOOS score, Mean (SD)	0.25 (0.14)
Change in VAS score, Mean (SD)	-6.10 (1.97)
Frequency of use (weekly), n (%)	
0	5 (50%)
1	5 (50%)

4.2 Inferential analysis

Table 3 caption

Characteristic	Beta	95% CI	p-value
Crude estimate	-0.08	-0.29 to 0.13	0.420
Controlled for VAS reduction	-0.10	-0.35 to 0.14	0.352
Controlled for sex and age	0.00	-0.22 to 0.22	0.990
Controlled for VAS reduction, sex and age	-0.05	-0.26 to 0.16	0.557

5 OBSERVATIONS AND LIMITATIONS

6 CONCLUSIONS

7 REFERENCES

• **SAP-2022-023-AD-v01** – Analytical Plan for Association between KOOS scores and OTC analgesic use in patients using knee-braces

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8 APPENDIX

8.1 Exploratory data analysis

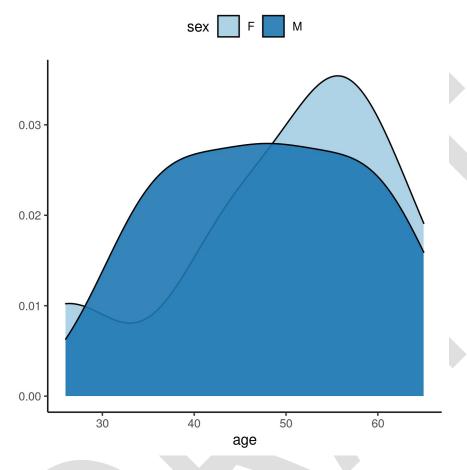
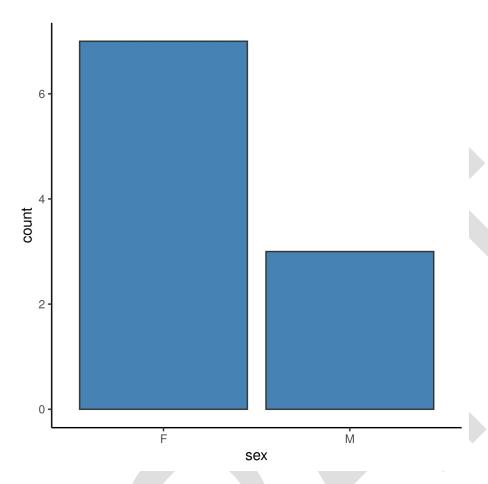


Figure A1 Distribution of age in the study population.

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8.2 Modeling strategy Table A1 caption

Characteristic	Beta	95% CI	p-value									
Frequency of use (weekly)												
0	_			_	_							
1	-0.08	-0.29 to 0.13	0.420	-0.10	-0.35 to 0.14	0.352	0.00	-0.22 to 0.22	0.990	-0.05	-0.26 to 0.16	0.557
Change in VAS score				0.02	-0.05 to 0.08	0.544				0.05	-0.02 to 0.13	0.138
Sex												
F												
М							-0.09	-0.32 to 0.13	0.345	-0.24	-0.52 to 0.05	0.091
Age (years)							-0.01	-0.02 to 0.00	0.098	-0.01	-0.02 to 0.00	0.113

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8.3 Availability

All documents from this consultation were included in the consultant's Portfolio.

The portfolio is available at:

https://philsf-biostat.github.io/SAR-2022-023-AD/

8.4 Analytical dataset

Table A2 shows the structure of the analytical dataset.

Table A2 Analytical dataset structure

id	age	sex	pain_pre	koos_pre	outcome	pain_reduc	frequency
1							
2							
3							
N							

Due to confidentiality the data-set used in this analysis cannot be shared online in the public version of this report.

