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 |

# Abbreviations

# Context

## Objectives

## Data reception and cleaning

# Methods

## Study parameters

### Study design

### Inclusion and exclusion criteria

### Exposures

### Outcomes

### Covariates

## Statistical analyses

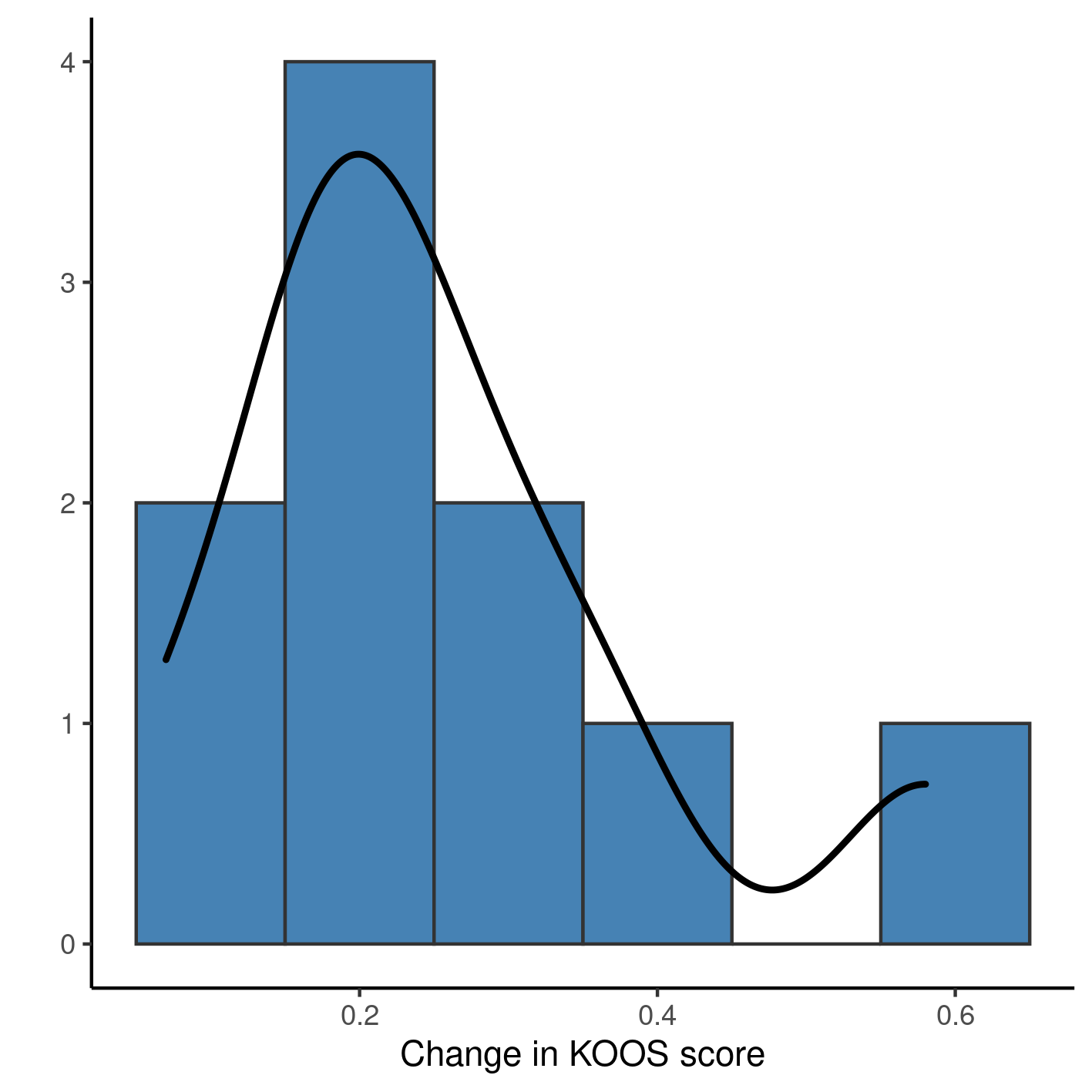
This analysis was performed using statistical software R version 4.1.3.

# Results

## Study population and follow up

**Table 1** caption

|  |  |
| --- | --- |
| **Baseline characteristics** | **N = 10** |
| **Sex, n (%)** |  |
| F | 7 (70%) |
| M | 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

**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%) |

## 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 |

# Observations and Limitations

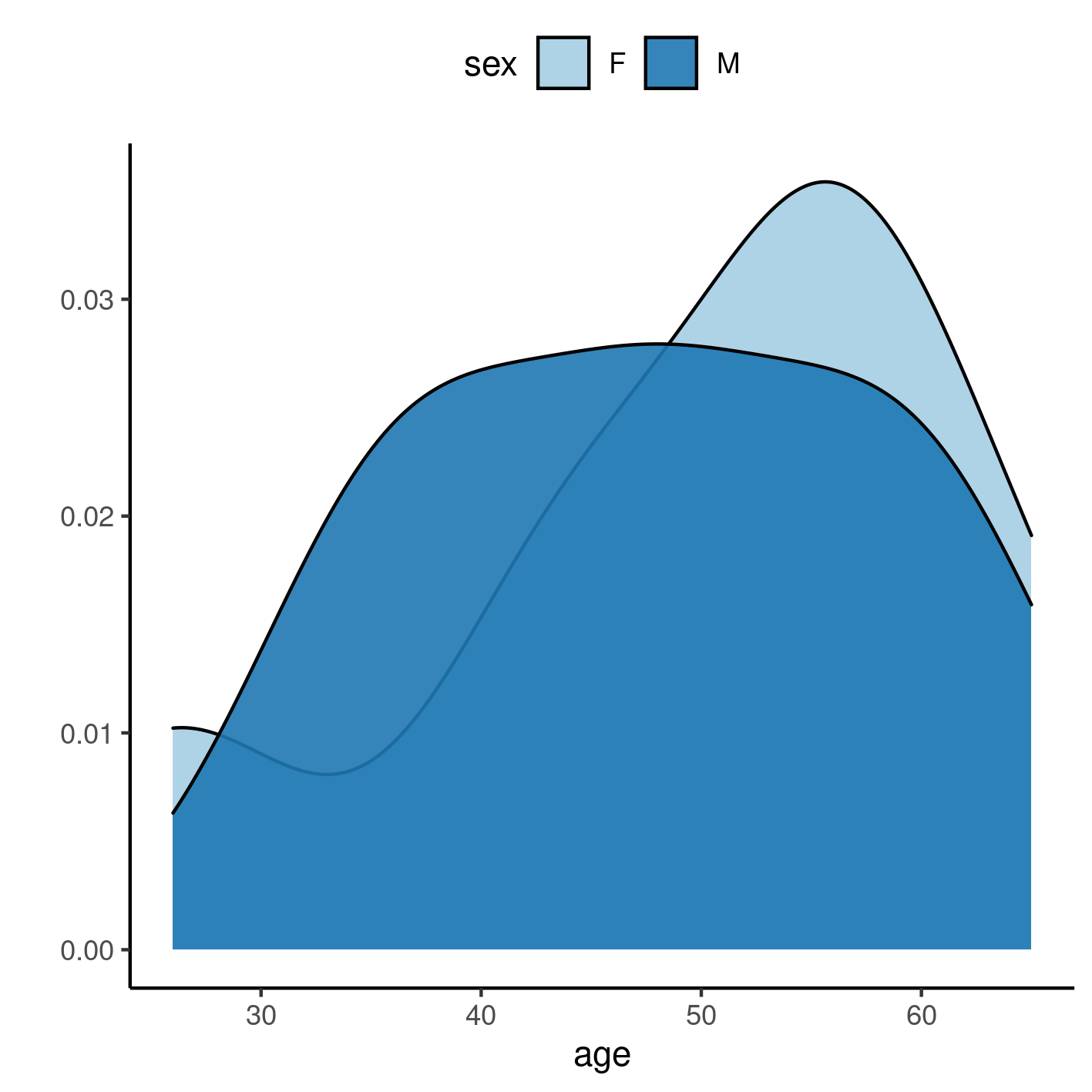
# Conclusions

# References

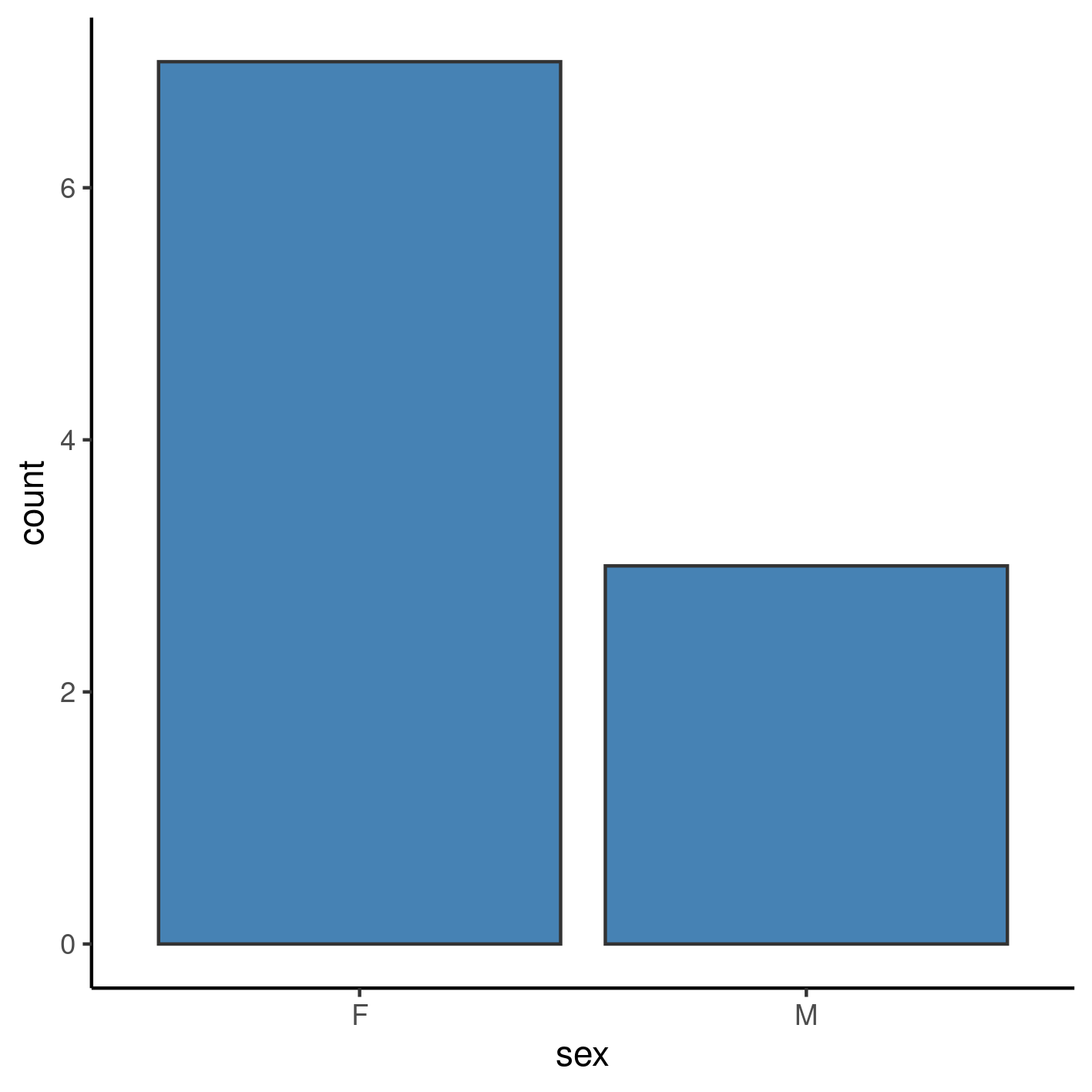
* **SAP-2022-023-AD-v01** – Analytical Plan for Association between KOOS scores and OTC analgesic use in patients using knee-braces

# Appendix

## Exploratory data analysis



**Figure A1** Distribution of age in the study population.



## Modeling strategy

**Table A1** caption

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Characteristic** | **Beta** | **95% CI** | **p-value** | **Beta** | **95% CI** | **p-value** | **Beta** | **95% CI** | **p-value** | **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 |  |  |  |  |  |  |  |  |  |  |  |  |
| M |  |  |  |  |  |  | -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 |

## 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/>

## 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.