



Supplementary Material

10.1302/2046-3758.117.BJR-2021-0493.R1

Table i. Correlation of pre- and postoperative 36-item Short Form Health Survey questionnaire scores with patient satisfaction with their total knee arthroplasty.

| SF-36 component | Preoperative (correlation) | p-value* | Postoperative (correlation) | p-value* |
|-------------------|----------------------------|----------|-----------------------------|----------|
| Physical Function | 0.113 | < 0.001 | 0.403 | < 0.001 |
| Role Physical | 0.087 | < 0.001 | 0.385 | < 0.001 |
| Bodily Pain | 0.103 | < 0.001 | 0.424 | < 0.001 |
| General Health | 0.204 | < 0.001 | 0.319 | < 0.001 |
| Vitality | 0.157 | < 0.001 | 0.356 | < 0.001 |
| Social Function | 0.147 | < 0.001 | 0.404 | < 0.001 |
| Role Emotional | 0.123 | < 0.001 | 0.322 | < 0.001 |
| Mental Health | 0.169 | < 0.001 | 0.296 | < 0.001 |
| Total | 0.178 | < 0.001 | 0.454 | < 0.001 |

*Spearman's correlation.

Positive correlation = better score associated with increased level of satisfaction.

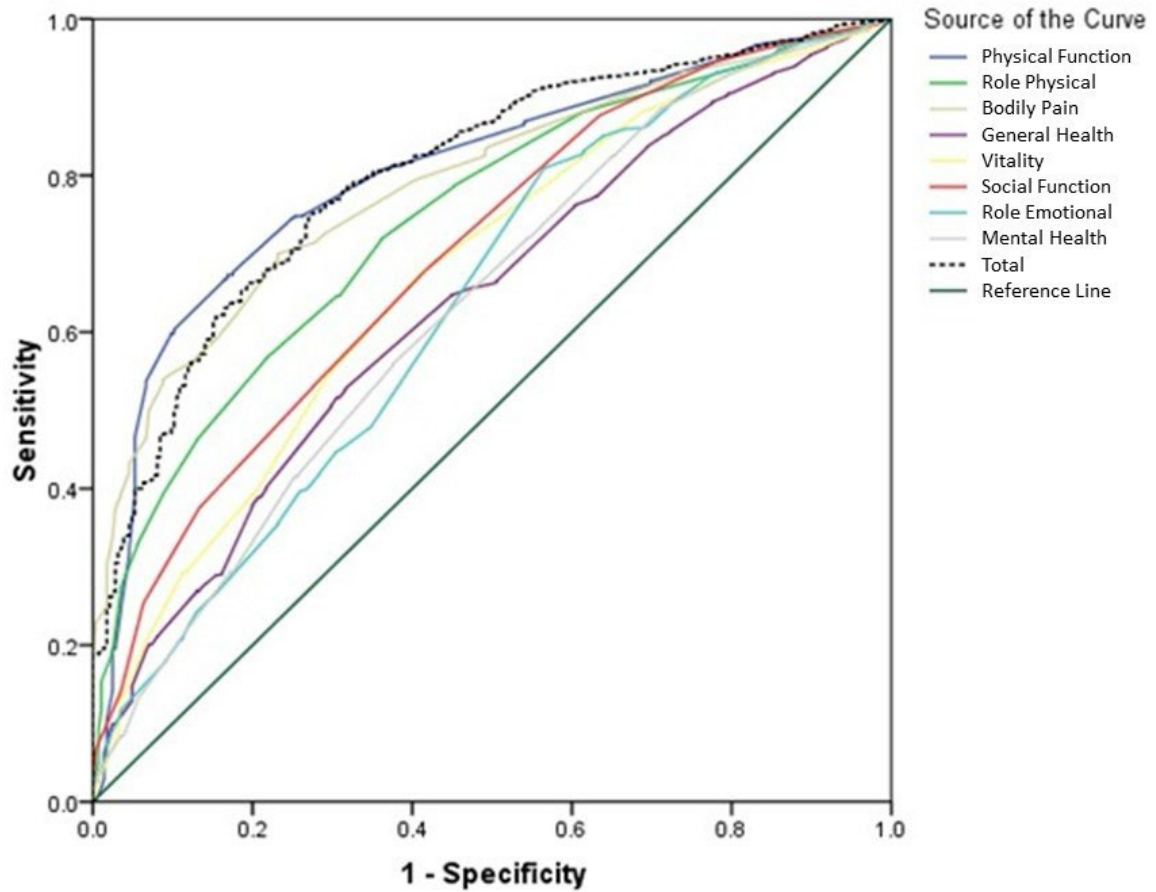


Fig a. Receiver operating characteristic curve analysis for predicting postoperative satisfaction with total knee arthroplasty according to change in the dimensions of the 36-item Short Form Health Survey questionnaire and the total score.

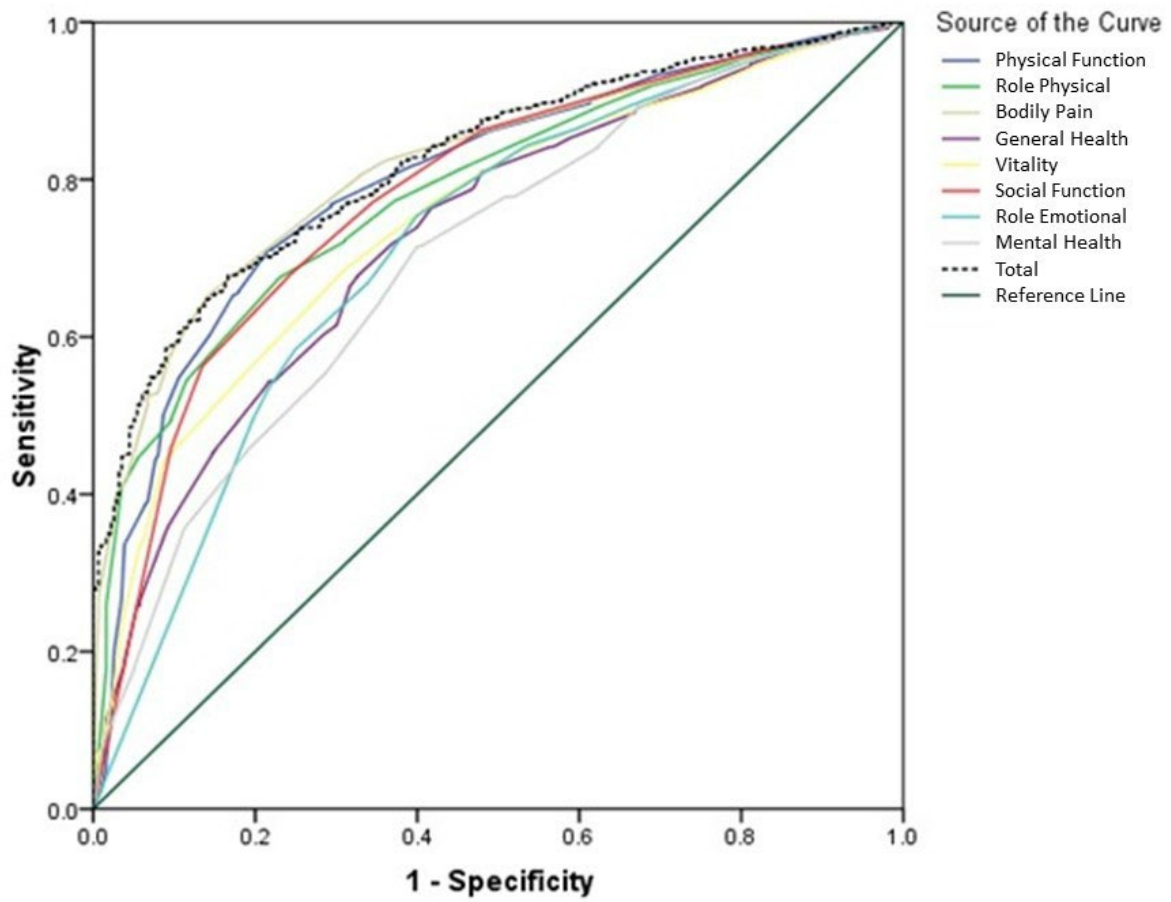


Fig b. Receiver operating characteristic curves for predicting postoperative satisfaction with total knee arthroplasty according to the postoperative dimensions of the 36-item Short Form Health Survey questionnaire and the total score.

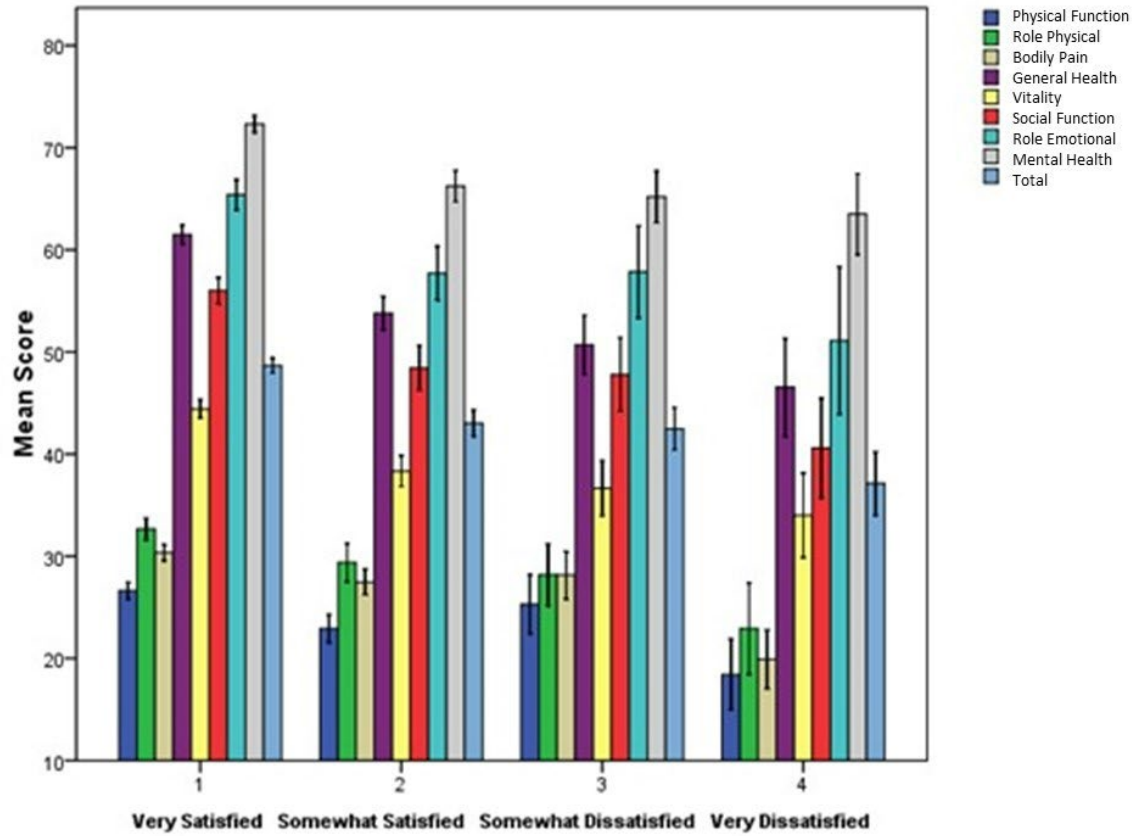


Fig c. Bar chart illustrating the preoperative dimensions of the 36-item Short Form Health Survey questionnaire and the total score according to the level of postoperative satisfaction with the outcome of total knee arthroplasty.

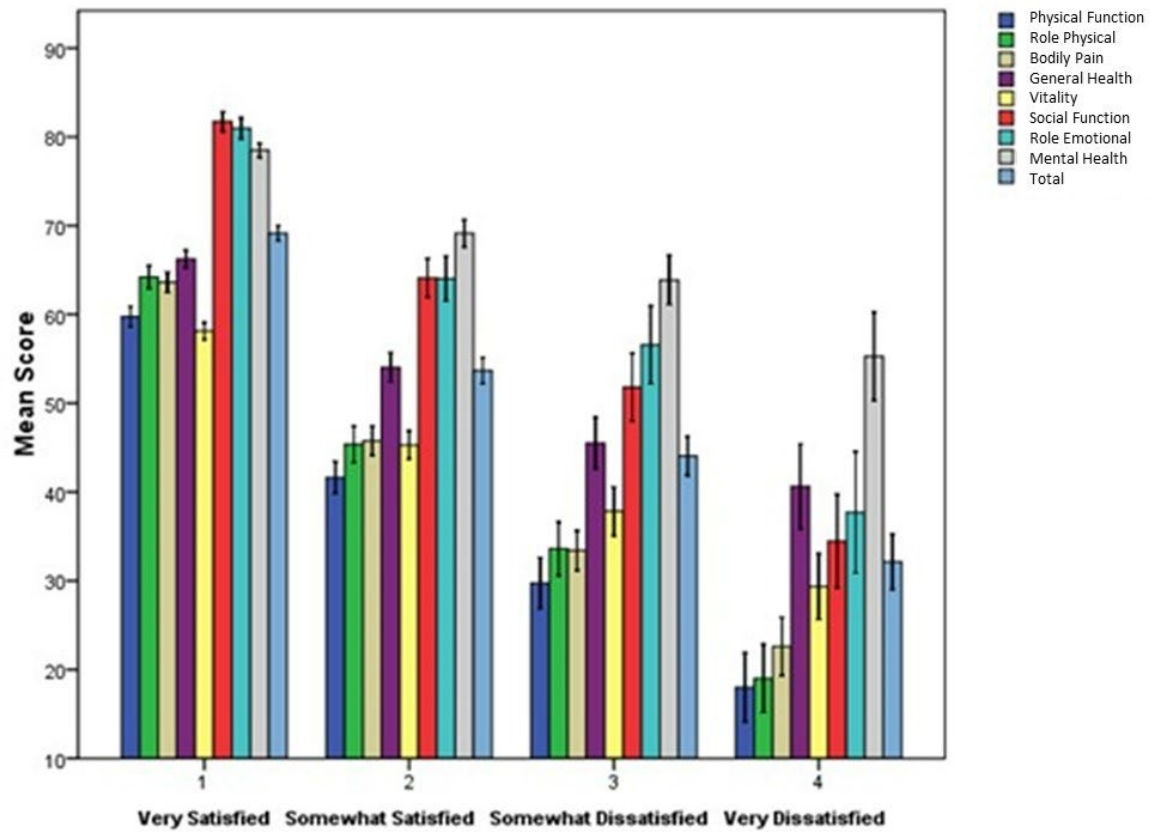


Fig d. Bar chart illustrating the postoperative dimensions of the 36-item Short Form Health Survey questionnaire and the total score according to the level of postoperative satisfaction with the outcome of total knee arthroplasty.