Supplemental Online Content

Olsen U, Lindberg MF, Rose C, et al. Factors correlated with physical function 1 year after total knee arthroplasty in patients with knee osteoarthritis: a systematic review and meta-analysis. *JAMA Netw Open*. 2022;5(6):e2219636. doi:10.1001/jamanetworkopen.2022.19636

This supplemental material has been provided by the authors to give readers additional information about their work.

eMethods. Multivariate Meta-analysis

Except where noted, we performed statistical analyses according to the method prespecified in our protocol (Olsen 2020).

We imputed correlation coefficients from estimates of association expressed as odds ratios, risk ratios, and linear model coefficients (including differences) as described in our protocol's supplementary materials. Where it was necessary to impute odds ratios from risk ratios prior to imputing correlation, we assumed a prespecified baseline probability of reduced postsurgical function of 20%. We defined canonical directions for all outcomes and factors and inverted reported directions of association as appropriate to ensure consistent directions of association in meta-analysis.

If studies did not report confidence intervals or sampling variances, we imputed them as appropriate (Higgins 2019). If a study did not report exact statements of uncertainty but provided statements about “statistical significance”, we used a conservative approach in which we imputed “worst case” standard errors. For example, we imputed P≤0.01 to mean P=0.01 and “not statistically significant” to mean P=0.99. We performed all meta-analyses on the scale of Fisher’s z (hyperbolic arctangent, not Z-score; Borenstein 2009). We used the inverse transform (hyperbolic tangent) to report meta-analytical estimates as correlation coefficients.

We anticipated that factors may be correlated and that there may be important differences in the methods used to quantify associations. We therefore planned to perform multivariate random-effects meta-analysis for each outcome using White's (2009, 2011) multivariate extension to Riley's (2008) bivariate random-effects model, as implemented in the MVMETA add-on command for Stata. Unfortunately, it was not possible to fit this model given the sparsity of our data. We therefore used a frequentist version of the Bayesian multivariate model we developed for a meta-analysis of pain after total knee arthroplasty (Rose 2020). We had planned to identify factors likely to be most strongly associated with postoperative function by estimating the probability of superiority of each factor using the pbest option of MVMETA. Because that model could not be used, we assessed using P-scores (cf. p-values; Rücker and Schwarzer 2015), in which larger magnitudes were defined to be superior to those with smaller magnitudes. Unlike the probabilities we had planned to estimate, P-scores are not as heavily influenced by imprecisely estimated factors with small point estimates whose confidence intervals extend far beyond those of more precisely estimated factors with larger point estimates. This is particularly important for multivariate meta-analysis of correlations, in which the superiority of a factor is a function of the magnitude of its coefficient rather than its magnitude and direction, as is the case in multiple treatment comparison via network meta-analysis. P-scores are therefore likely to better identify good factors. Multivariate estimates of correlation are presented as forest plots, which

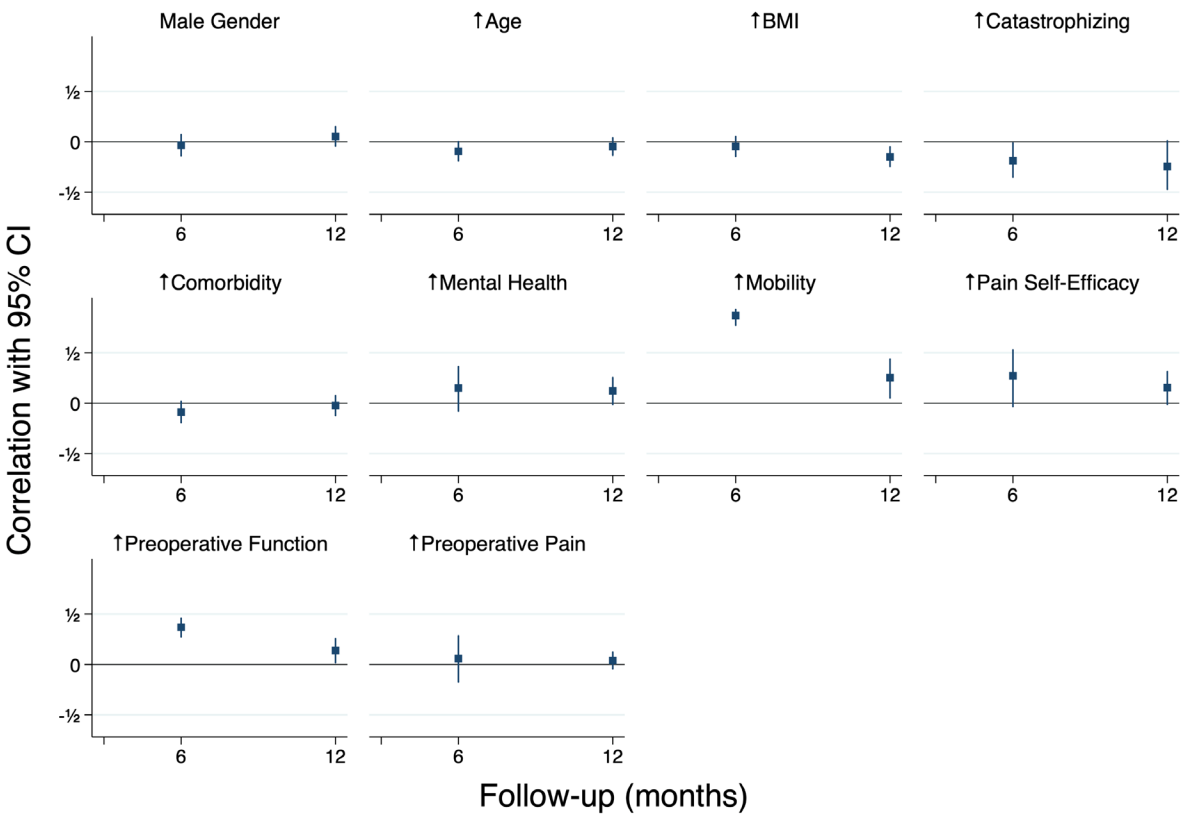
also show I^2 statistics (the percentage of heterogeneity attributable to between-study differences rather than sampling error) and the numbers of studies that provided usable estimates for each factor. We also performed exploratory univariate meta-analyses for each factor and outcome, but which do not account for correlation. We compared estimates from the three approaches to identify possible inconsistency. We report 95% confidence intervals throughout. Statistical analyses were performed using Stata 16 (StataCorp LLC, College Station, Texas, USA).

We had planned to investigate non-reporting bias and small study effects for factor supported by at least 10 results. However, none of the factors met this criterion. Similarly, we had planned to perform subgroup analyses with respect to study design, type of outcome measurement, and intervention if at least five studies could be included in each subgroup. However, this criterion was not satisfied, and no subgroup analyses were performed.

We performed a sensitivity analysis for the primary outcome (function 12 months post-surgery). For each of the six QUIPS risk of bias domains, we excluded studies judged to be at high risk of bias, re-ran the multivariate meta-analysis, and compared the estimated correlations with those obtained when all studies are included. We had planned to do a leave-one-study-out sensitivity analysis to explore the influence of each study on the meta-analysis results. Unfortunately, this was not feasible. However, the effect of particular studies can be inferred by inspecting the univariate meta-analyses.

Fig. 1. Postsurgical function at 6 and 12 months

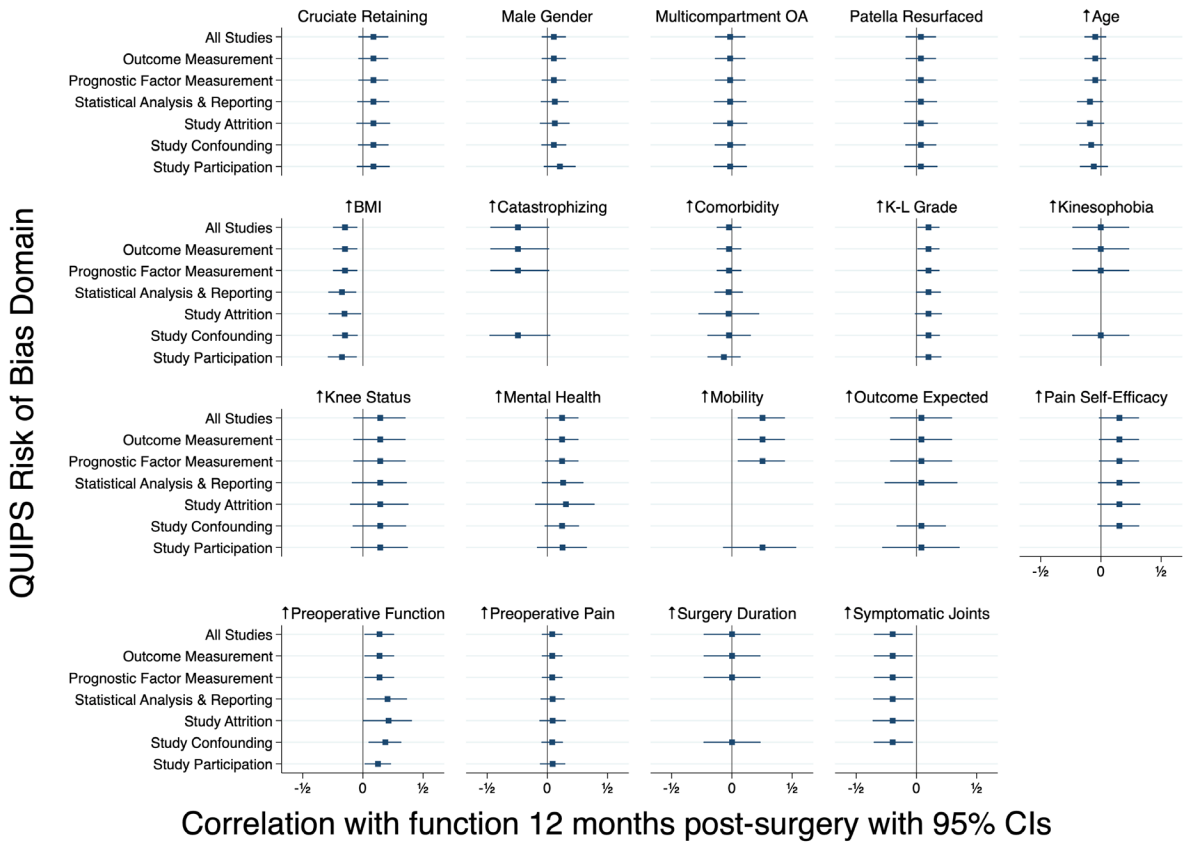
The following plot shows the multivariate meta-analytical estimates of correlation at each postoperative follow-up time. Estimates for factor studied at only one postoperative time point are omitted.



Predictors studied at only one postoperative time point are omitted

eFigure 1. Sensitivity Analysis

The following plot shows the results of a sensitivity analysis in which the multivariate meta-analysis model was used to estimate correlations for each factor, omitting all estimates from studies judged to be at high risk of bias for each of the six QUIPS domains. Estimates from the full meta-analysis are also included for comparison (shown as "All Studies").



References

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eFigure 2. Exploring Potential Inconsistency at 6 and 12 mo

The following forest plots compare estimates between all models (where possible).

Fig. 3. Postsurgical Function (6 months) — Model comparison

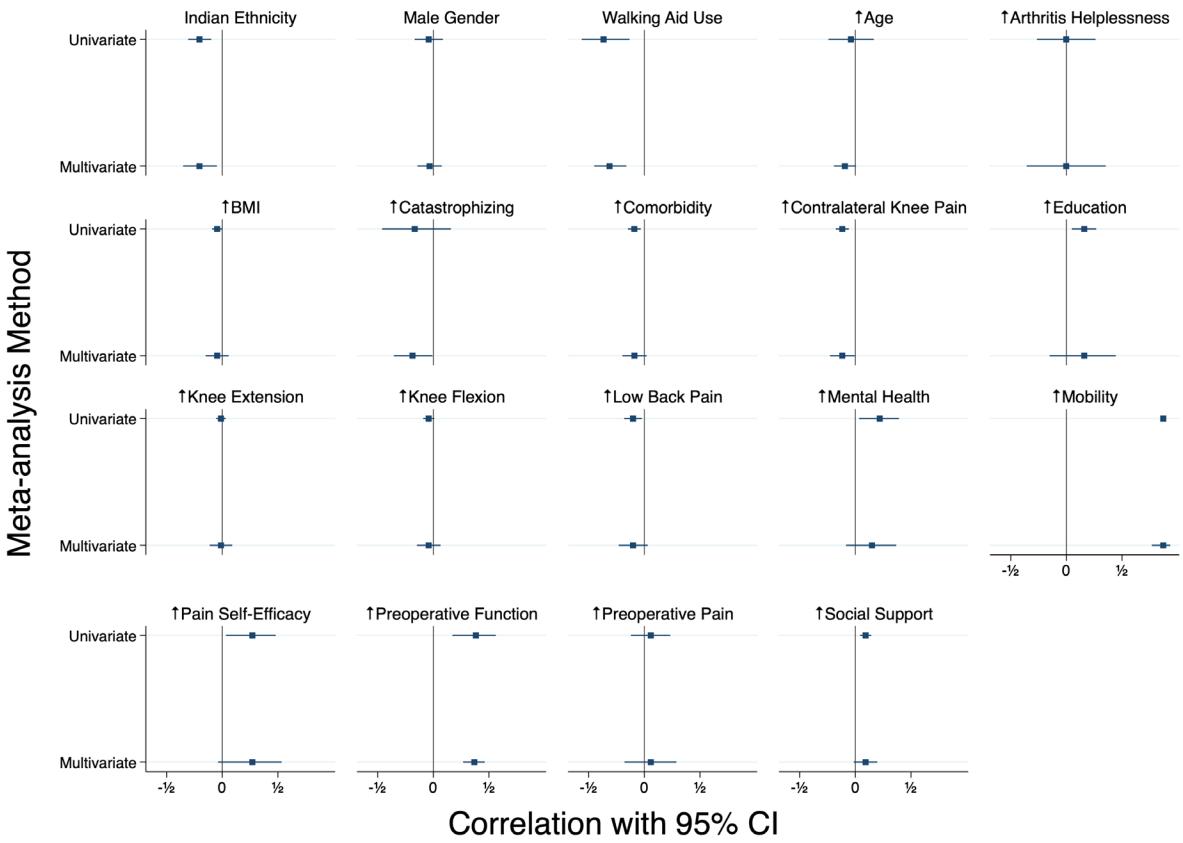
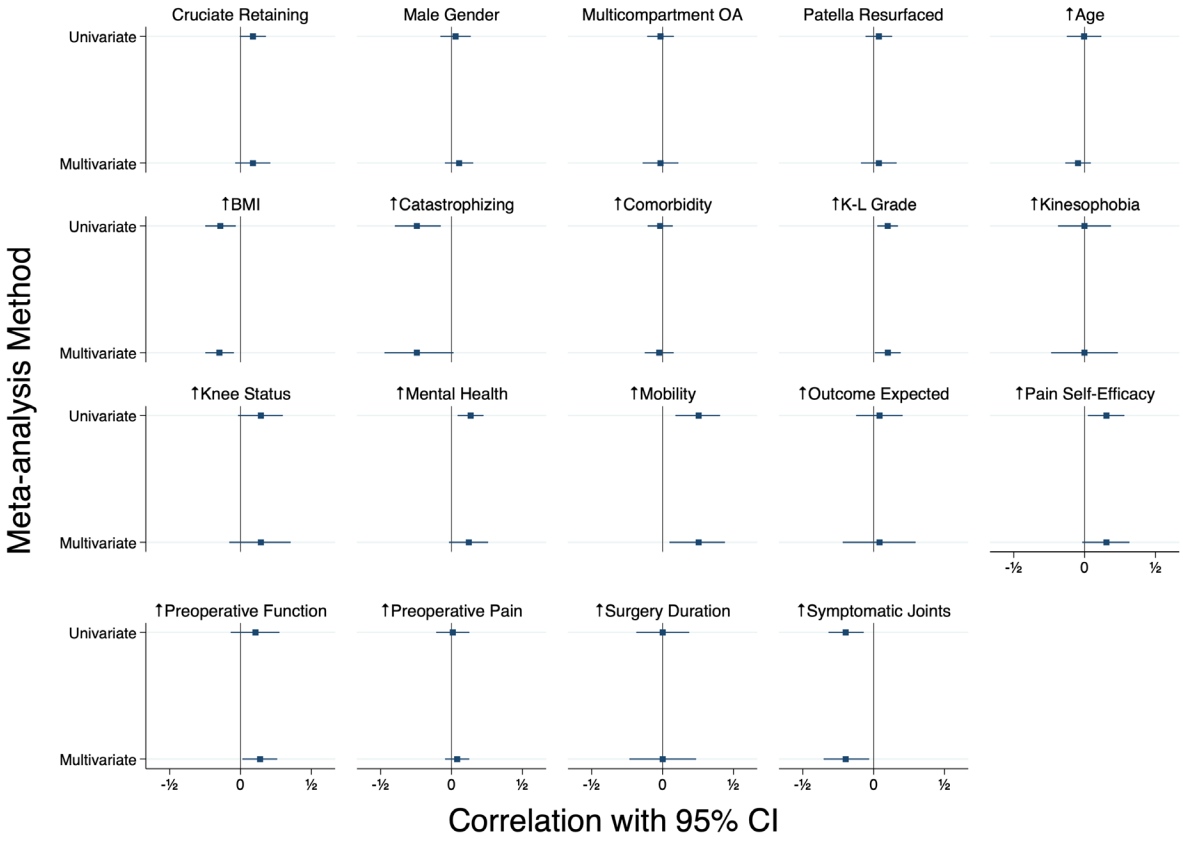


Fig. 4. Postsurgical Function (12 months) — Model comparison

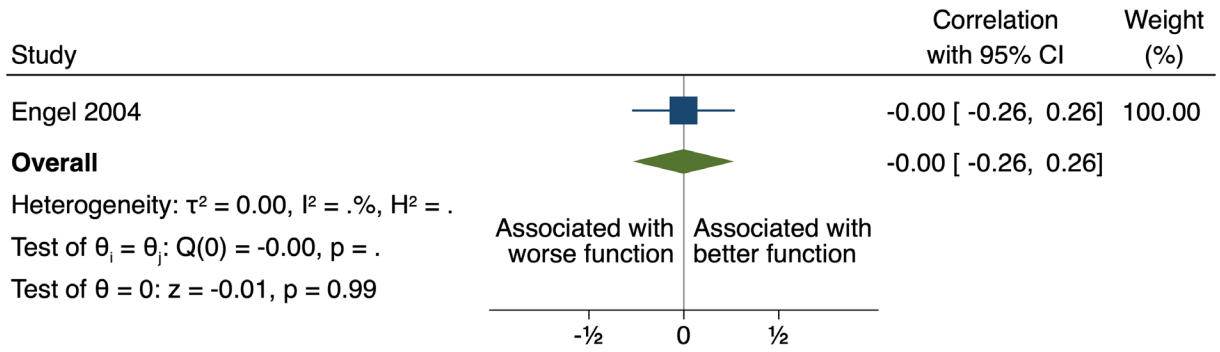


eFigure 3. Univariate Meta-analysis

The following forest plots show the results of exploratory univariate meta-analyses of the association between individual factor and the outcomes. Note that these results do not account for any correlation between the prognostic factor.

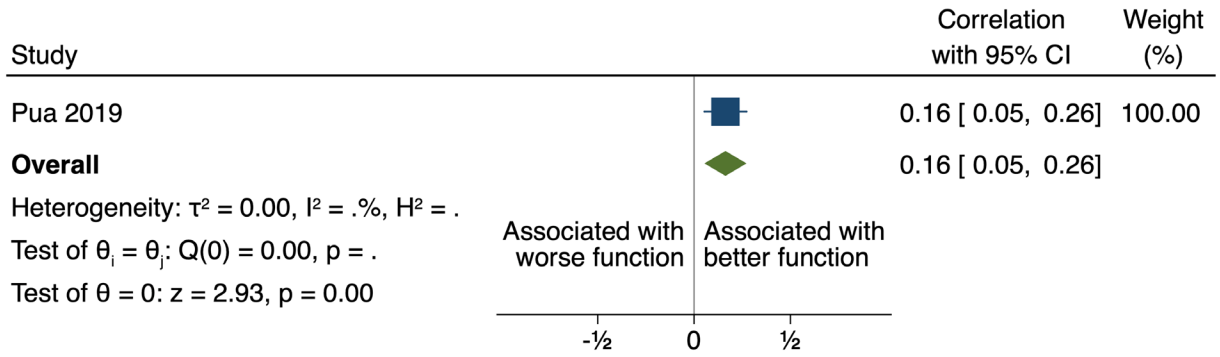
Function (6 months)

Fig. 5. ↑Arthritis Helplessness



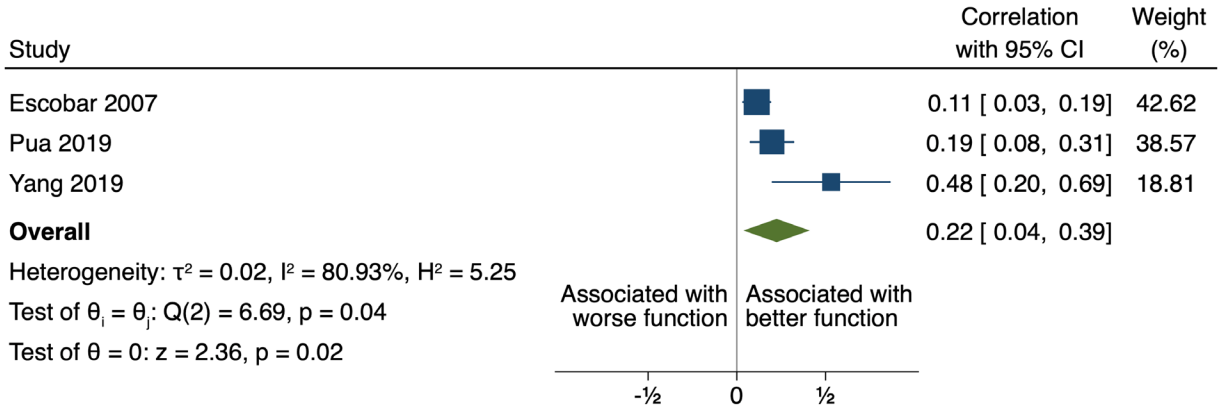
↑Arthritis Helplessness (random-effects REML model)

Fig. 6. ↑Education



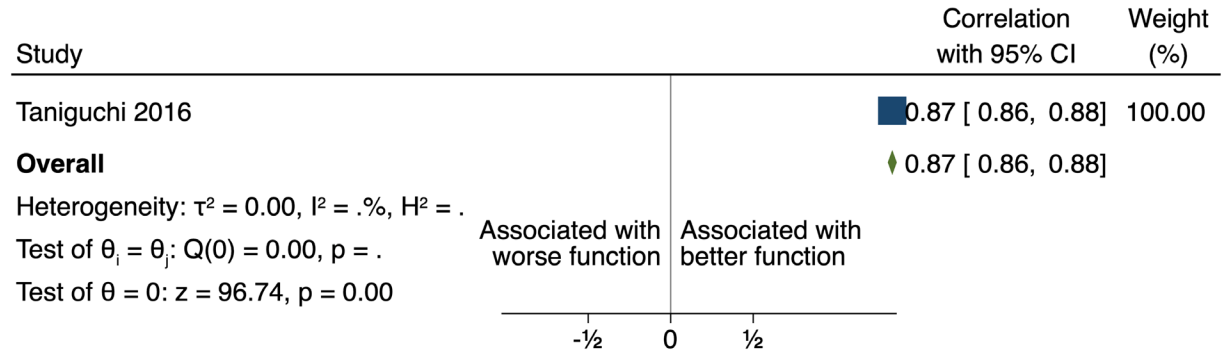
↑Education (random-effects REML model)

Fig. 7. ↑Mental Health



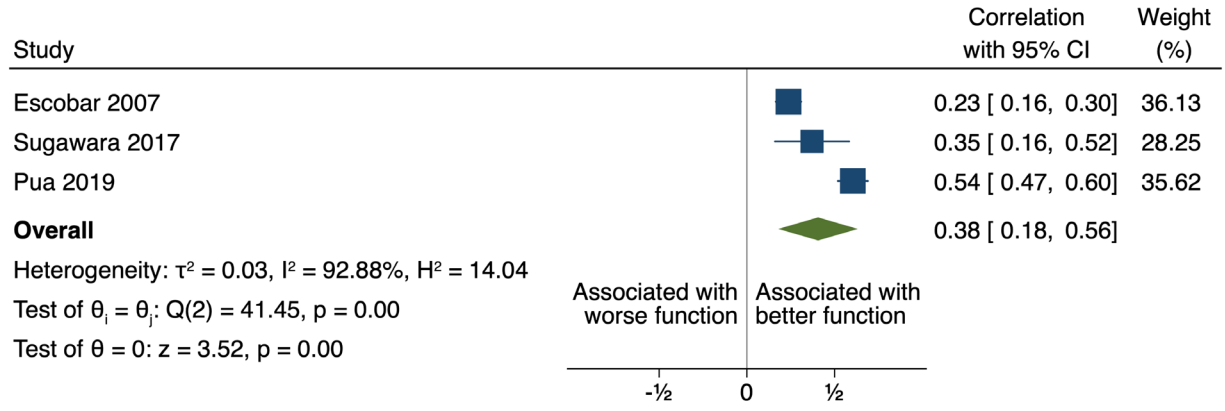
↑Mental Health (random-effects REML model)

Fig. 8. ↑Mobility



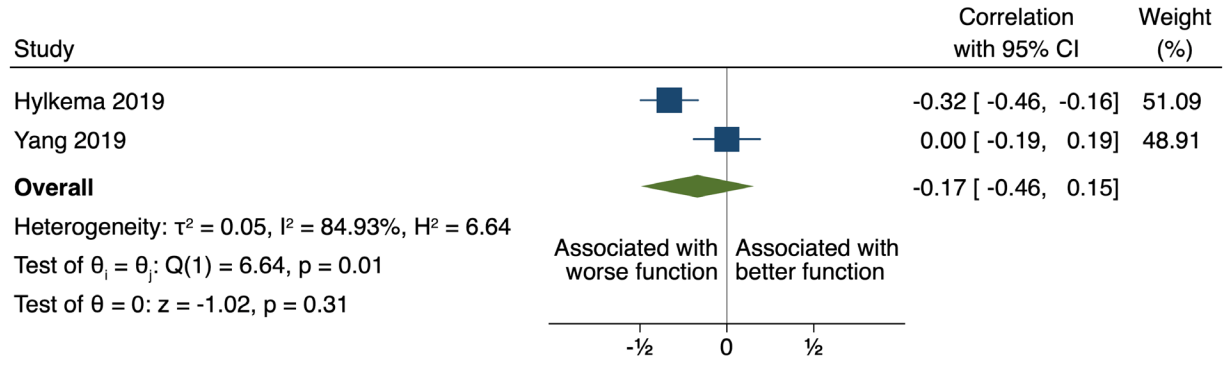
↑Mobility (random-effects REML model)

Fig. 9. ↑Preoperative Function



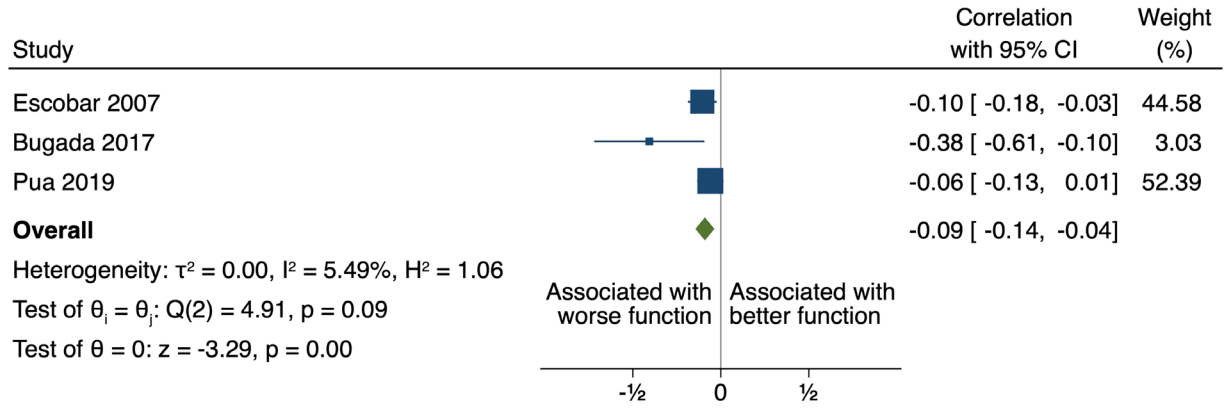
↑Preoperative Function (random-effects REML model)

Fig. 10. ↑Catastrophizing



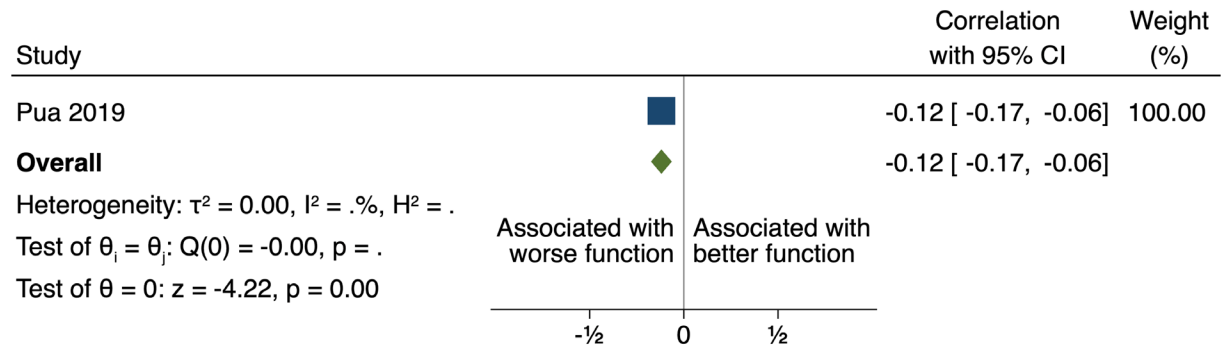
↑Catastrophizing (random-effects REML model)

Fig. 11. ↑Comorbidity



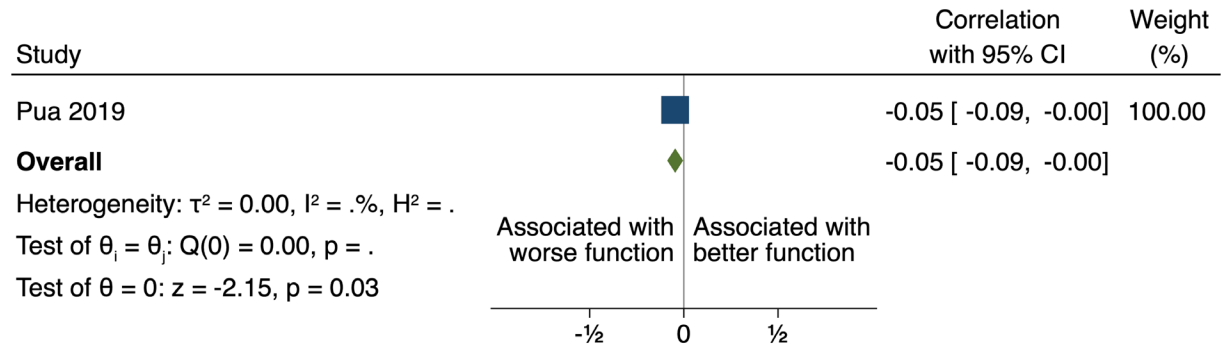
↑Comorbidity (random-effects REML model)

Fig. 12. ↑Contralateral Knee Pain



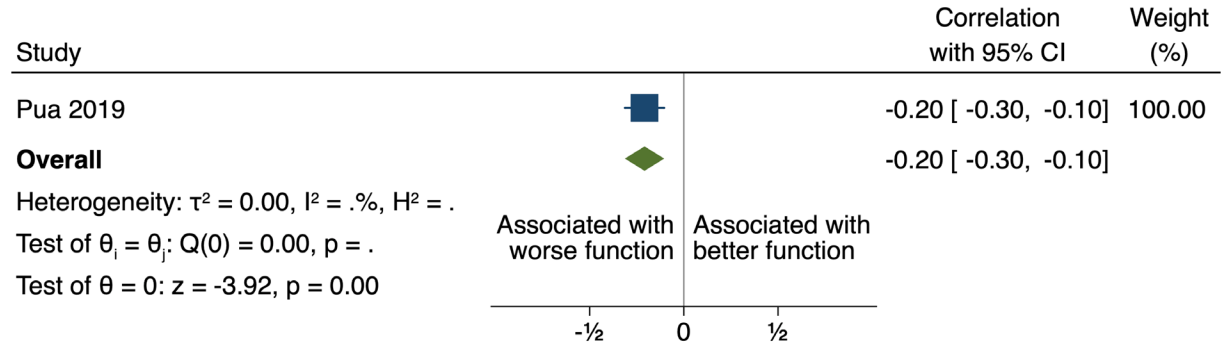
↑Contralateral Knee Pain (random-effects REML model)

Fig. 13. ↑BMI



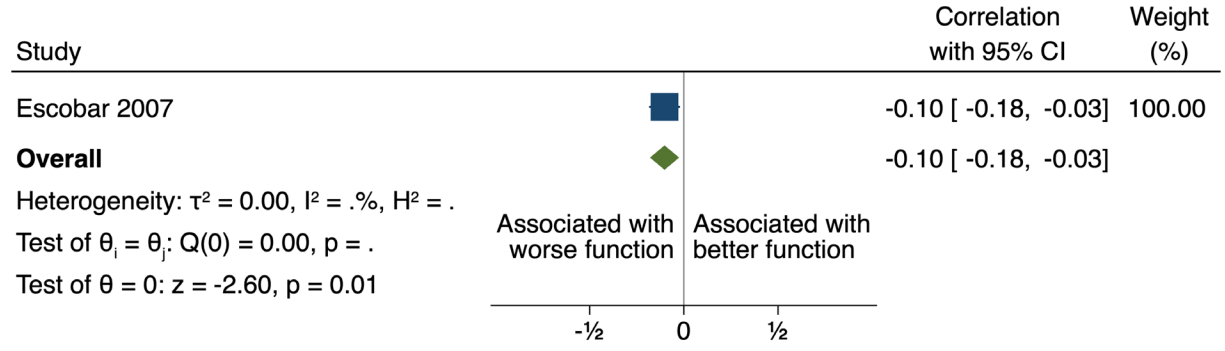
↑BMI (random-effects REML model)

Fig. 14. Indian Ethnicity



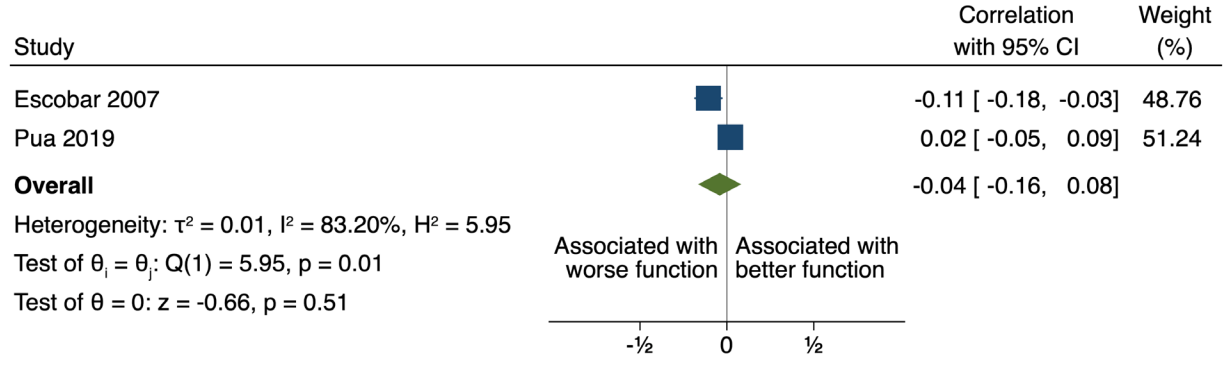
Indian Ethnicity (random-effects REML model)

Fig. 15. ↑Low Back Pain



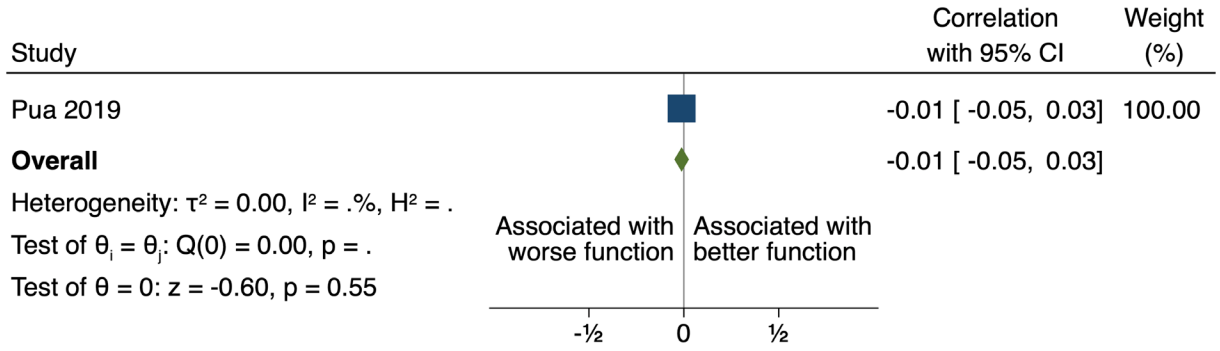
↑Low Back Pain (random-effects REML model)

Fig. 16. Male Gender



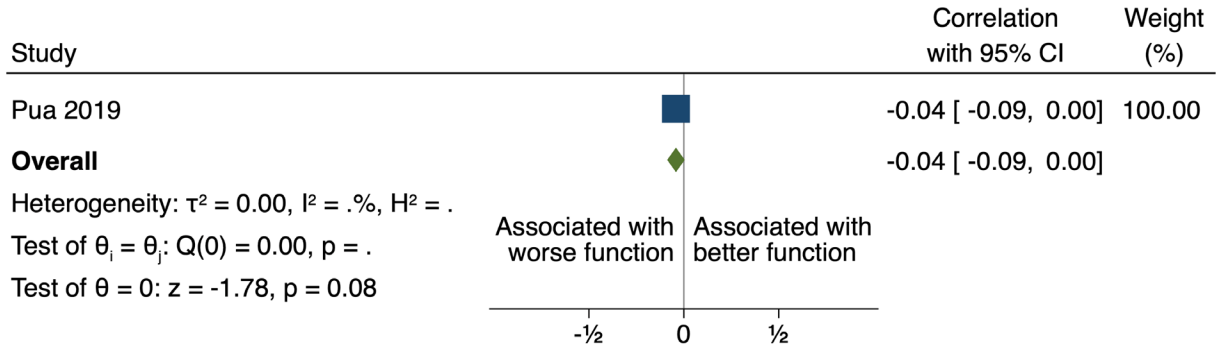
Male Gender (random-effects REML model)

Fig. 17. ↑Knee Extension



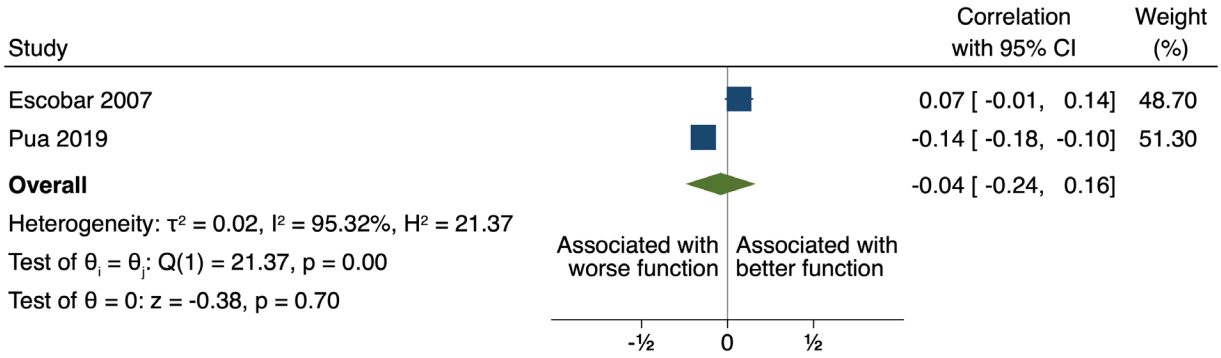
↑Knee Extension (random-effects REML model)

Fig. 18. ↑Knee Flexion



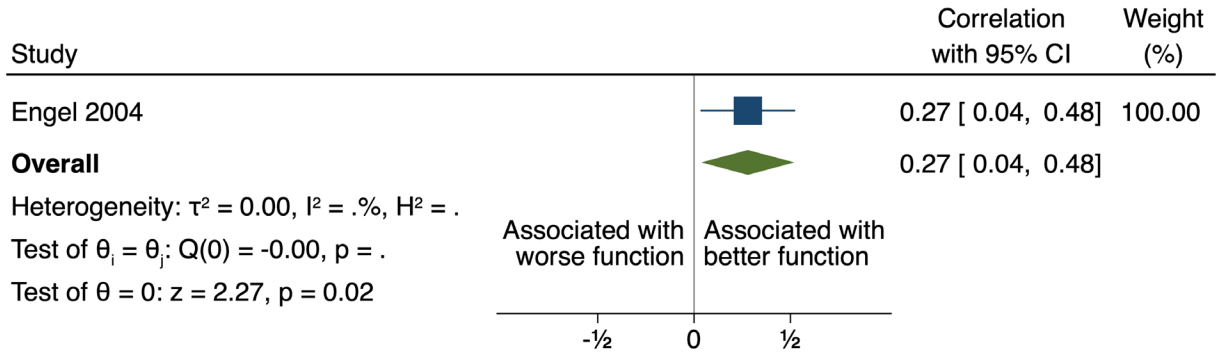
↑Knee Flexion (random-effects REML model)

Fig. 19. ↑Age



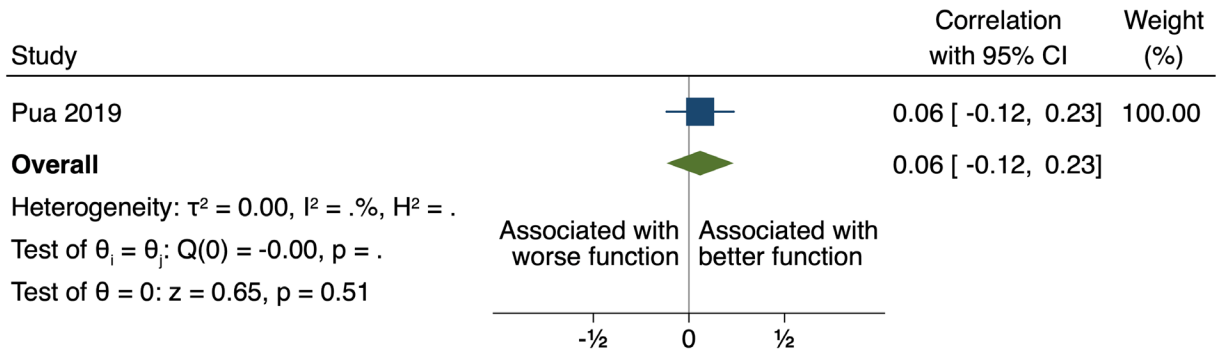
↑Age (random-effects REML model)

Fig. 20. ↑Pain Self-Efficacy



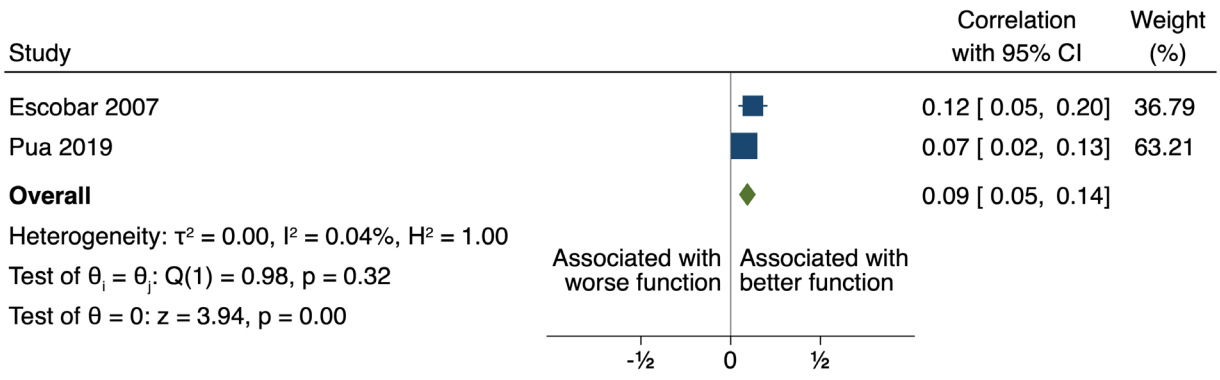
↑Pain Self-Efficacy (random-effects REML model)

Fig. 21. ↑Preoperative Pain



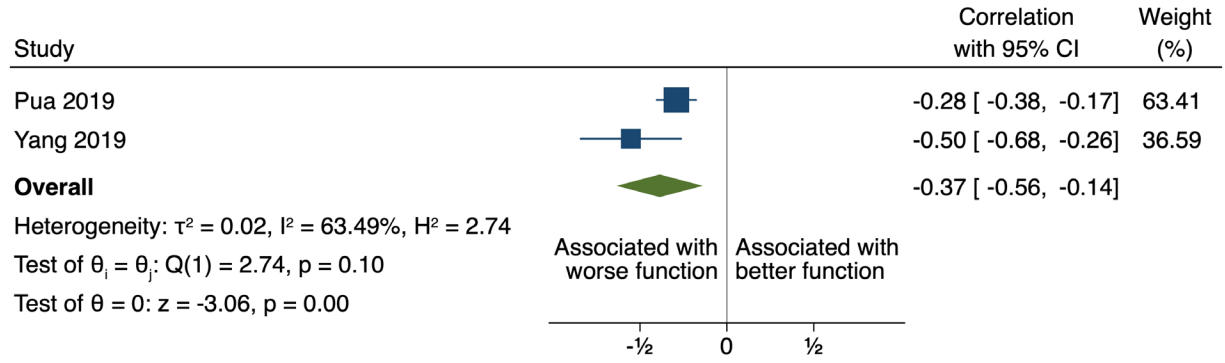
↑Preoperative Pain (random-effects REML model)

Fig. 22. ↑Social Support



↑Social Support (random-effects REML model)

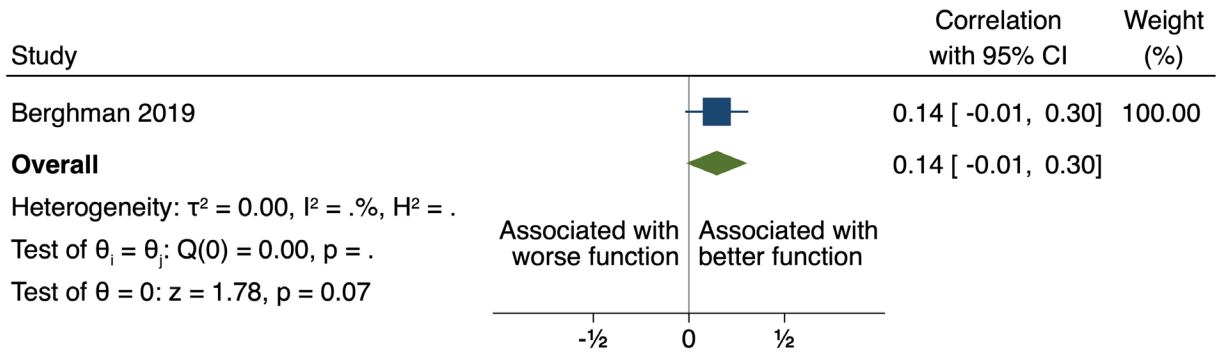
Fig. 23. Walking Aid Use



Walking Aid Use (random-effects REML model)

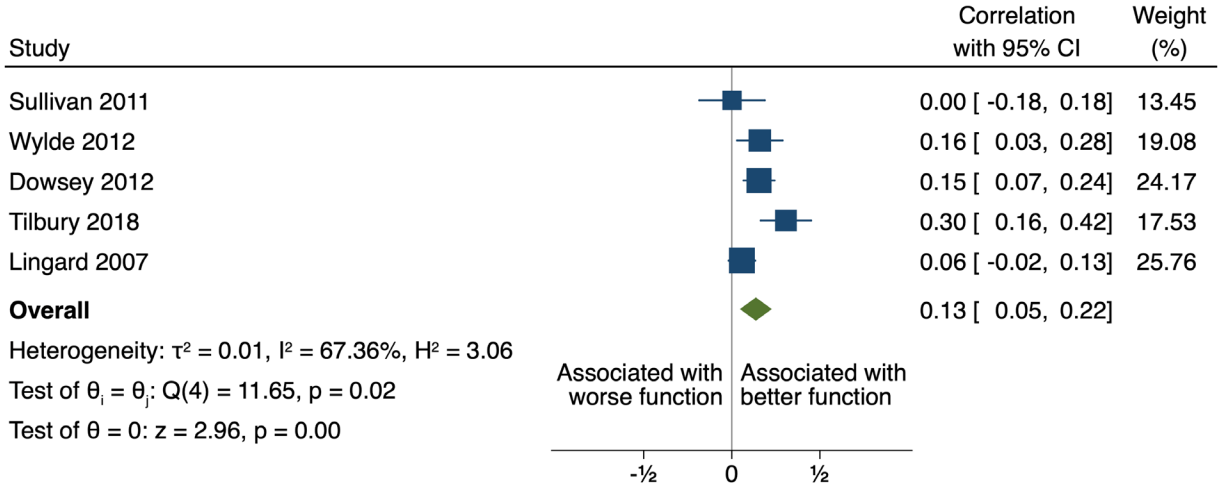
Function (12 months)

Fig. 24. ↑Knee Status



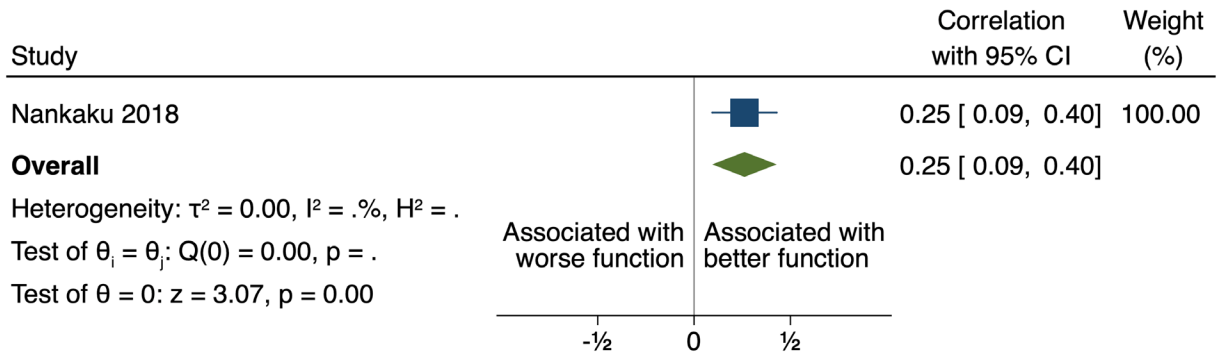
↑Knee Status (random-effects REML model)

Fig. 25. ↑Mental Health



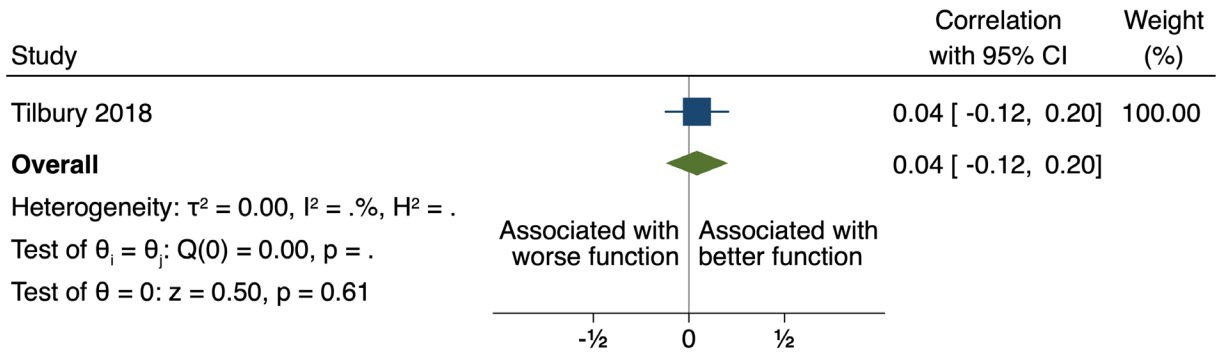
↑Mental Health (random-effects REML model)

Fig. 26. ↑Mobility



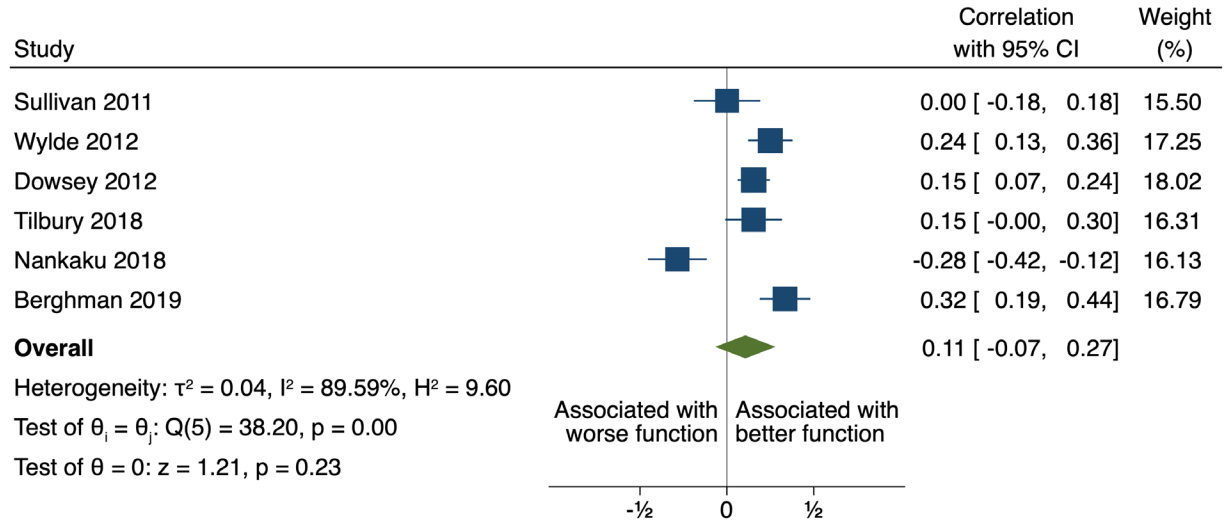
↑Mobility (random-effects REML model)

Fig. 27. ↑Outcome Expected



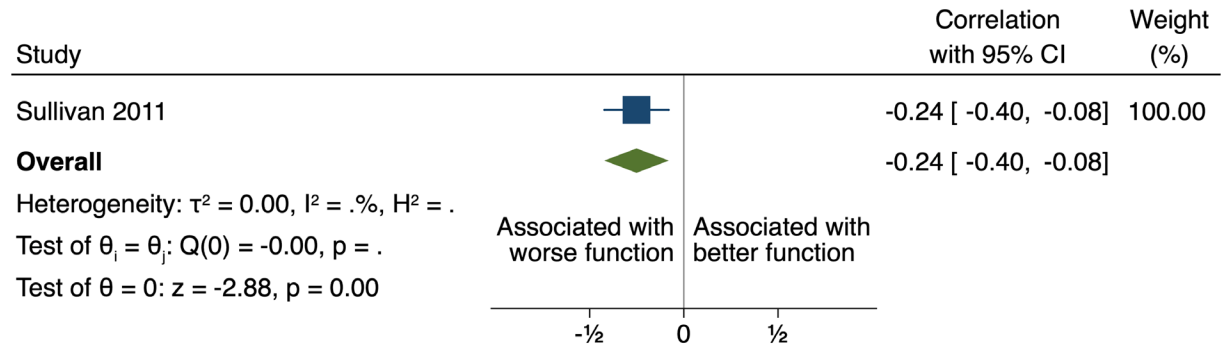
↑Outcome Expected (random-effects REML model)

Fig. 28. ↑Preoperative Function



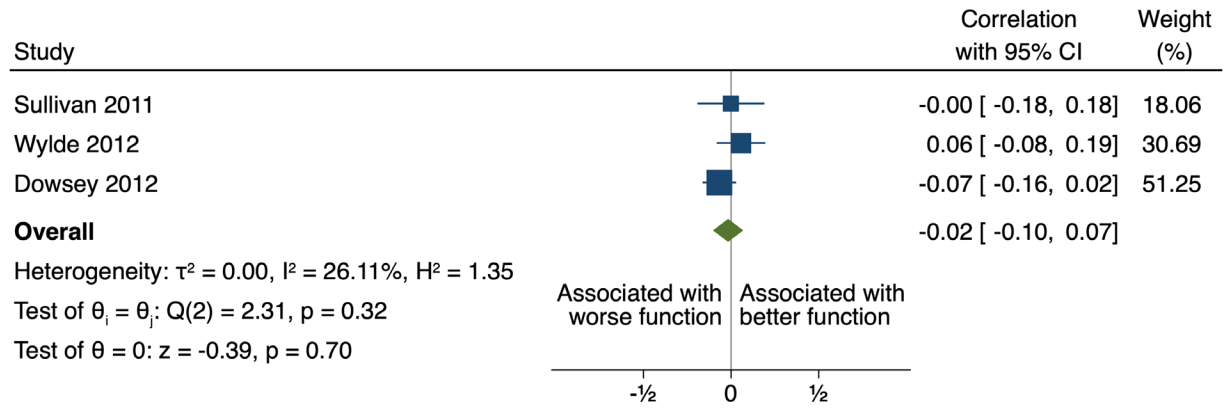
↑Preoperative Function (random-effects REML model)

Fig. 29. ↑Catastrophizing



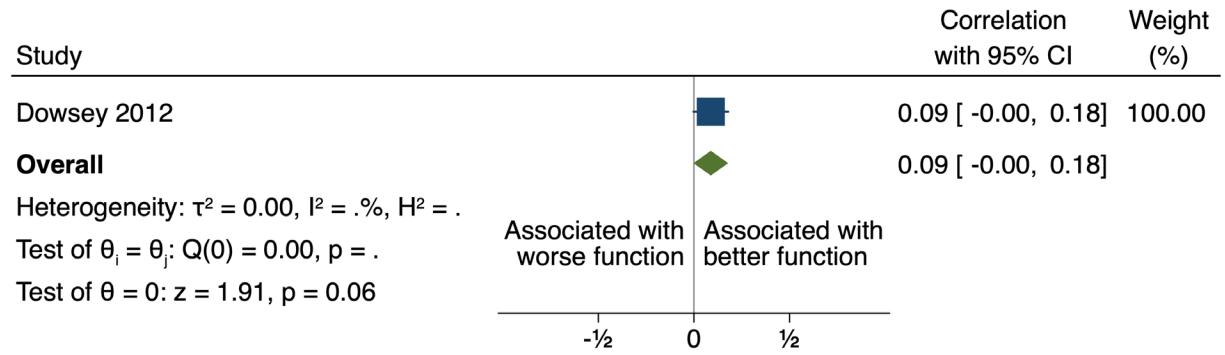
↑Catastrophizing (random-effects REML model)

Fig. 30. ↑Comorbidity



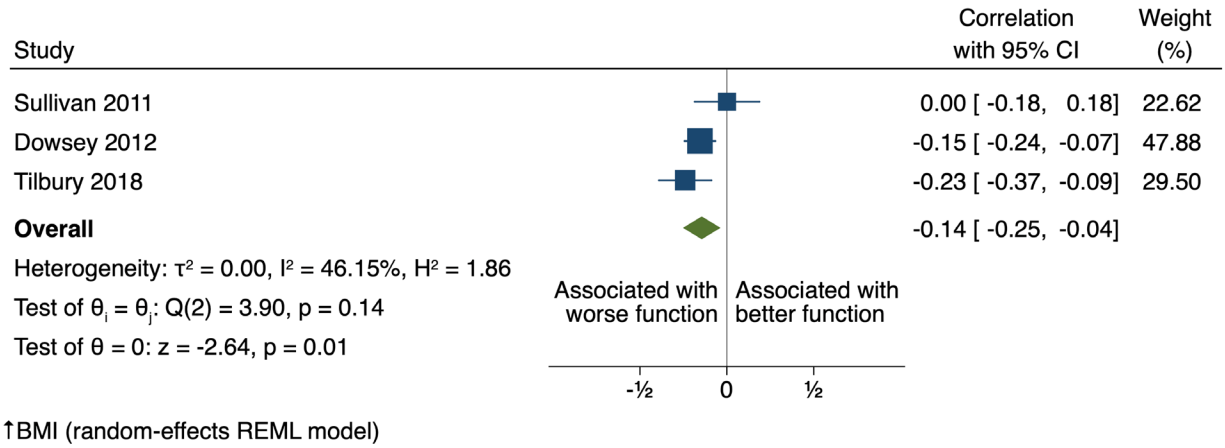
↑Comorbidity (random-effects REML model)

Fig. 31. Cruciate Retaining



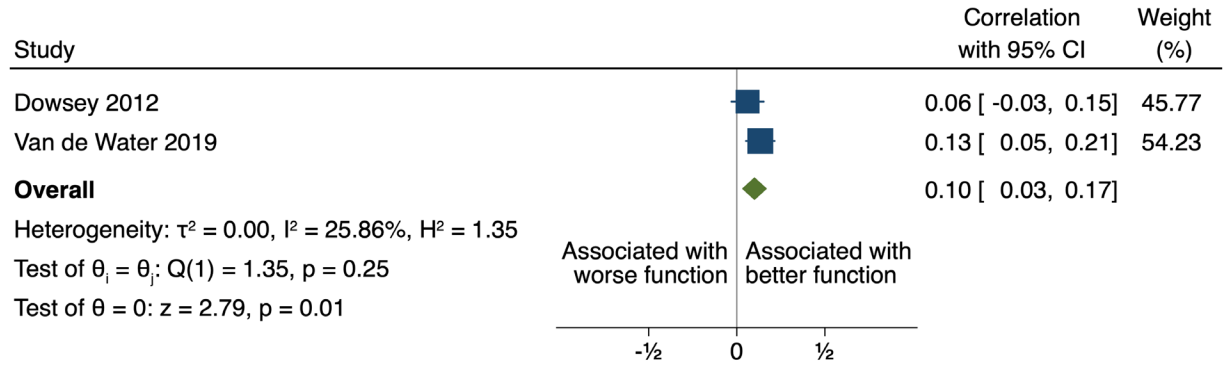
Cruciate Retaining (random-effects REML model)

Fig. 32. ↑BMI



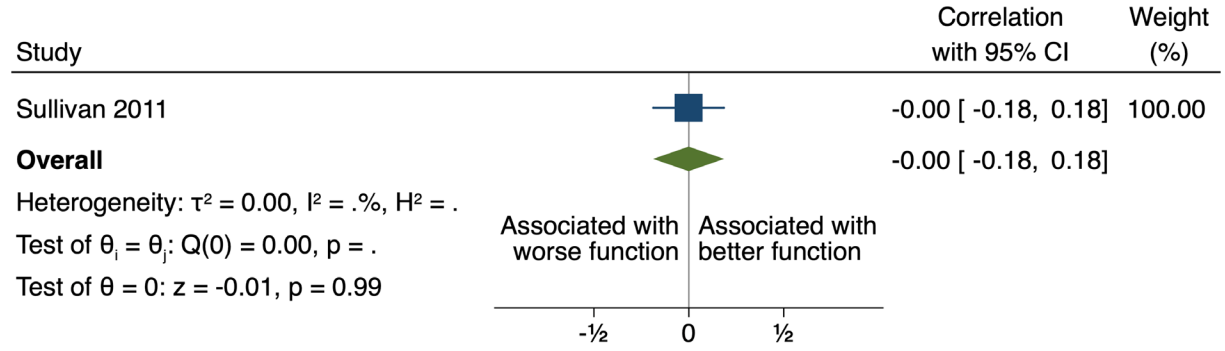
↑BMI (random-effects REML model)

Fig. 33. ↑K-L Grade



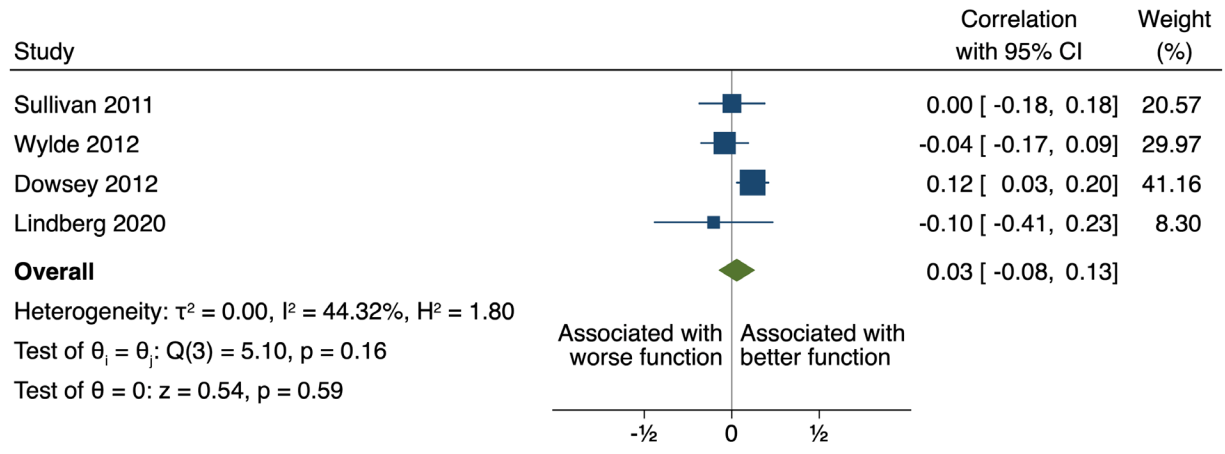
↑K-L Grade (random-effects REML model)

Fig. 34. ↑Kinesophobia



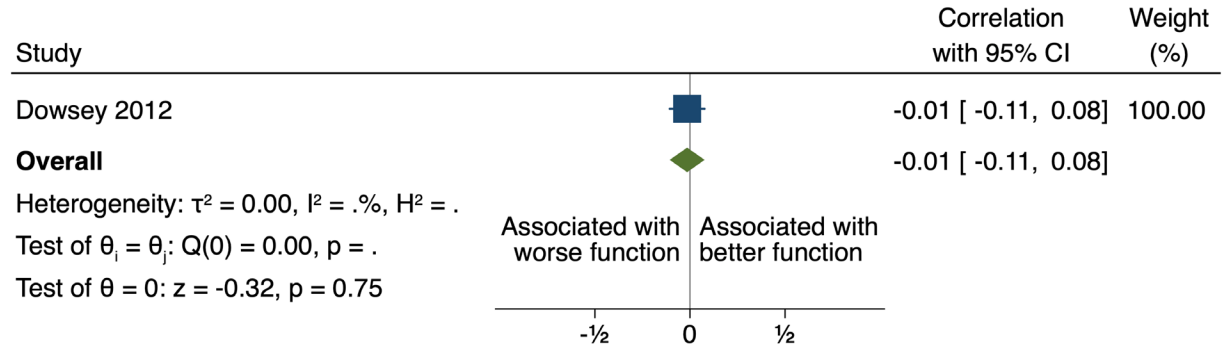
↑Kinesophobia (random-effects REML model)

Fig. 35. Male Gender



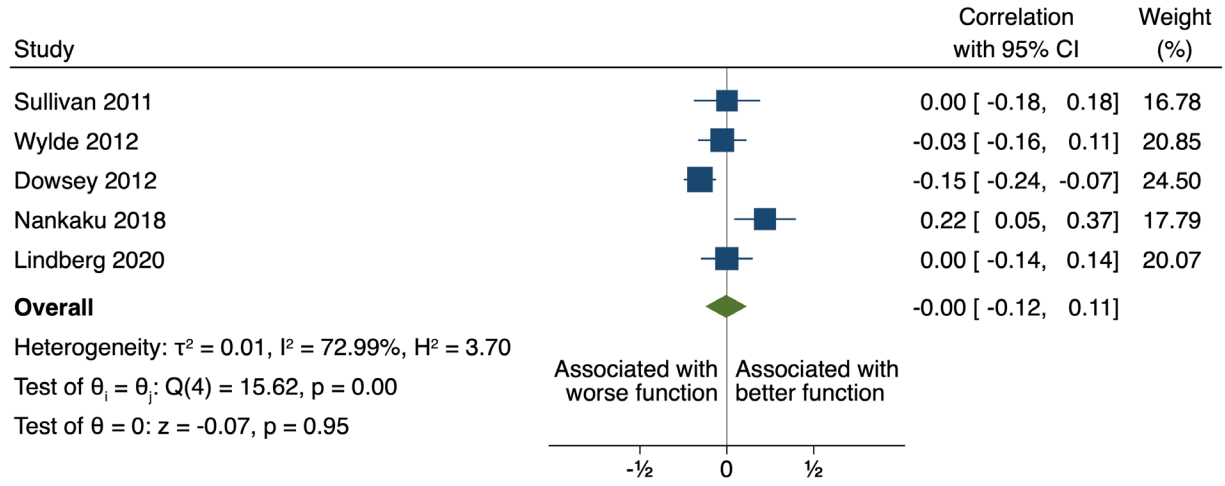
Male Gender (random-effects REML model)

Fig. 36. Multicompartment OA



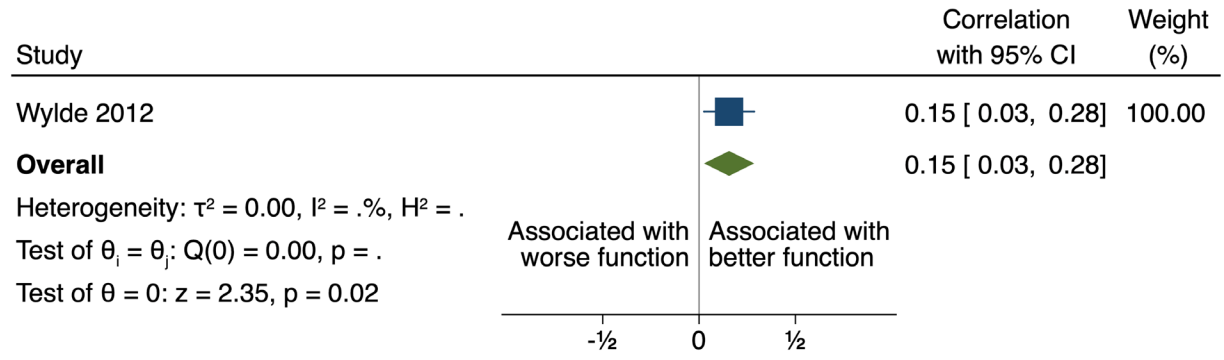
Multicompartment OA (random-effects REML model)

Fig. 37. ↑Age



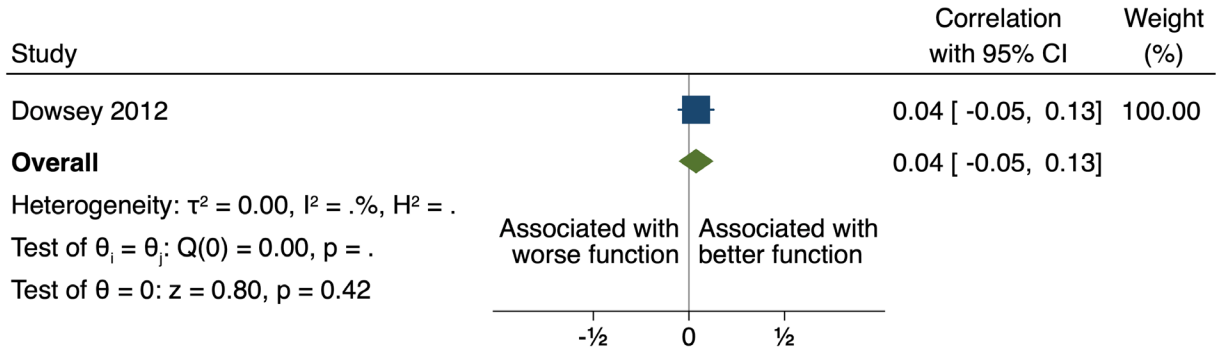
↑Age (random-effects REML model)

Fig. 38. ↑Pain Self-Efficacy



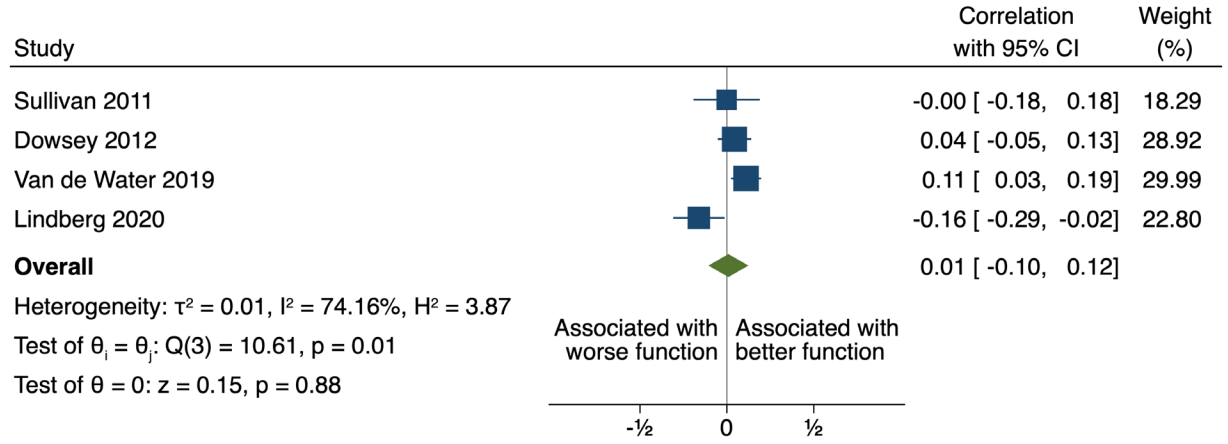
↑Pain Self-Efficacy (random-effects REML model)

Fig. 39. Patella Resurfaced



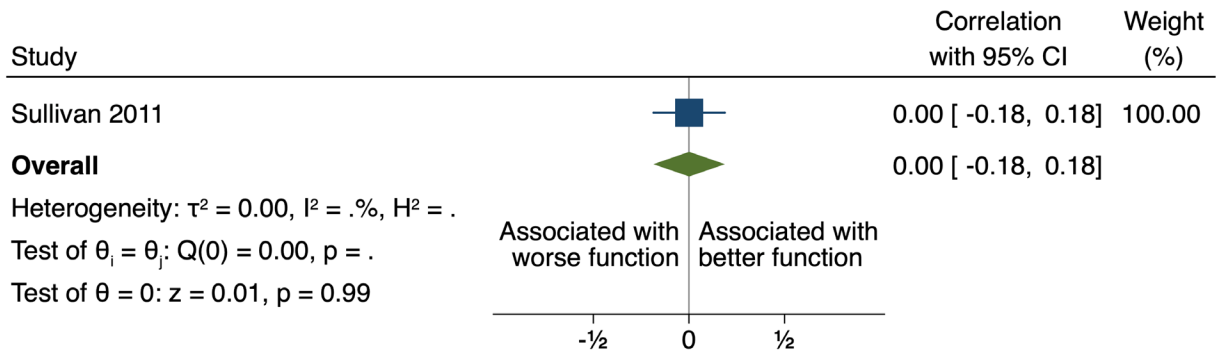
Patella Resurfaced (random-effects REML model)

Fig. 40. ↑Preoperative Pain



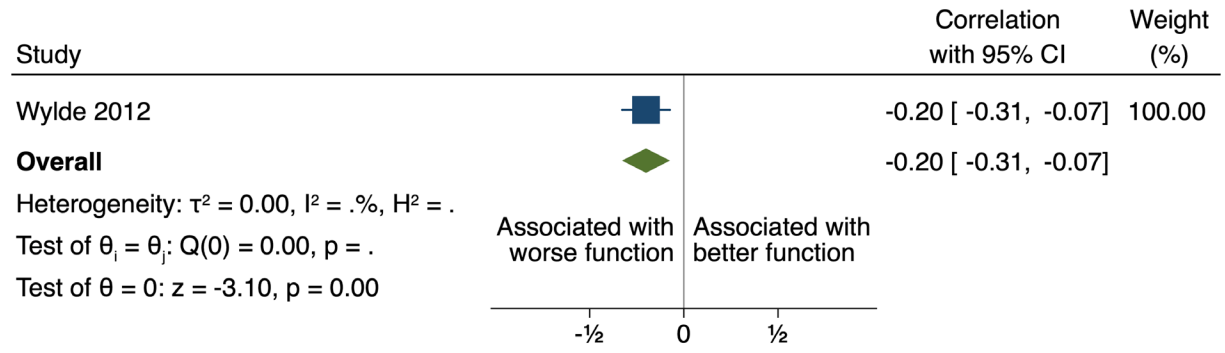
↑Preoperative Pain (random-effects REML model)

Fig. 41. ↑Surgery Duration



↑Surgery Duration (random-effects REML model)

Fig. 42. ↑Symptomatic Joints



↑Symptomatic Joints (random-effects REML model)

eTable 1. Sensitivity Analysis

The following table shows estimates of correlations for each of the sensitivity analyses. Estimates for the main analysis (i.e., no studies omitted) are also shown for comparison.

domain_str	concept	cc	cc_lb	cc_ub
All Studies	↑Knee Status	.1438768	-.0758673	.3503173
All Studies	↑Mental Health	.1220621	-.0145701	.2542162
All Studies	↑Mobility	.2544658	.0522105	.4366684
All Studies	↑Outcome Expected	.0416651	-.2145815	.2925428
All Studies	↑Preoperative Function	.1380555	.0164913	.2555974
All Studies	↑Catastrophizing	-.2446435	-.4701152	.0107985
All Studies	↑Comorbidity	-.0239961	-.1224817	.0749586
All Studies	Cruciate Retaining	.0875719	-.0344355	.2070066
All Studies	↑BMI	-.1489251	-.2449921	-.0499614
All Studies	↑K-L Grade	.1004358	.0114511	.1878413
All Studies	↑Kinesophobia	-.0012078	-.2332215	.2309341
All Studies	Male Gender	.0535947	-.0433122	.1494959
All Studies	Multicompartment OA	-.0148018	-.1373228	.1081642
All Studies	↑Age	-.046835	-.1330566	.0400981
All Studies	↑Pain Self-Efficacy	.1537482	-.0133514	.3124918
All Studies	Patella Resurfaced	.0371242	-.085861	.1589939
All Studies	↑Preoperative Pain	.0398254	-.042381	.1214909
All Studies	↑Surgery Duration	.0012099	-.230934	.2332215
All Studies	↑Symptomatic Joints	-.1970977	-.3492267	-.0348474
Study Participation	↑Knee Status	.1438074	-.0972522	.3690755
Study Participation	↑Mental Health	.1259386	-.0829971	.3242769
Study Participation	↑Mobility	.2544397	-.0698999	.5301681
Study Participation	↑Outcome Expected	.0416674	-.2804281	.3553225
Study Participation	↑Preoperative Function	.125238	.0183123	.2294473
Study Participation	↑Comorbidity	-.0664894	-.1990565	.0685877
Study Participation	Cruciate Retaining	.0875113	-.0469377	.2189611

Study Participation	↑BMI	-.1736704	-.2875198	-.0548615
Study Participation	↑K-L Grade	.1003758	-.005034	.2036943
Study Participation	Male Gender	.1036663	-.0266921	.2306734
Study Participation	Multicompartment OA	-.0148631	-.149485	.120419
Study Participation	↑Age	-.0589676	-.1708215	.0545022
Study Participation	Patella Resurfaced	.037063	-.0981895	.1710886
Study Participation	↑Preoperative Pain	.0434701	-.0582769	.1444436
Study Attrition	↑Knee Status	.1439137	-.1031806	.3742375
Study Attrition	↑Mental Health	.153948	-.0984798	.3877874
Study Attrition	↑Preoperative Function	.2131116	.0054118	.4031501
Study Attrition	↑Comorbidity	-.0276633	-.2746447	.2226636
Study Attrition	Cruciate Retaining	.0875735	-.0501764	.22205
Study Attrition	↑BMI	-.152584	-.2818696	-.017899
Study Attrition	↑K-L Grade	.1004379	-.0091389	.2076262
Study Attrition	Male Gender	.0615559	-.0590784	.1804243
Study Attrition	Multicompartment OA	-.0147903	-.1526335	.1235935
Study Attrition	↑Age	-.0909527	-.2027268	.0231506
Study Attrition	↑Pain Self-Efficacy	.1537942	-.0251349	.3230892
Study Attrition	Patella Resurfaced	.0371306	-.1013832	.1742187
Study Attrition	↑Preoperative Pain	.0435376	-.0625176	.148609
Study Attrition	↑Symptomatic Joints	-.1971193	-.3597354	-.0228384
Prognostic Factor Measurement	↑Knee Status	.1438768	-.0758673	.3503173
Prognostic Factor Measurement	↑Mental Health	.1220621	-.0145701	.2542162
Prognostic Factor Measurement	↑Mobility	.2544658	.0522105	.4366684
Prognostic Factor Measurement	↑Outcome Expected	.0416651	-.2145815	.2925428
Prognostic Factor Measurement	↑Preoperative Function	.1380555	.0164913	.2555974
Prognostic Factor Measurement	↑Catastrophizing	-.2446435	-.4701152	.0107985
Prognostic Factor Measurement	↑Comorbidity	-.0239961	-.1224817	.0749586

Prognostic Factor Measurement	Cruciate Retaining	.0875719	-.0344355	.2070066
Prognostic Factor Measurement	↑BMI	-.1489251	-.2449921	-.0499614
Prognostic Factor Measurement	↑K-L Grade	.1004358	.0114511	.1878413
Prognostic Factor Measurement	↑Kinesophobia	-.0012078	-.2332215	.2309341
Prognostic Factor Measurement	Male Gender	.0535947	-.0433122	.1494959
Prognostic Factor Measurement	Multicompartment OA	-.0148018	-.1373228	.1081642
Prognostic Factor Measurement	↑Age	-.046835	-.1330566	.0400981
Prognostic Factor Measurement	↑Pain Self-Efficacy	.1537482	-.0133514	.3124918
Prognostic Factor Measurement	Patella Resurfaced	.0371242	-.085861	.1589939
Prognostic Factor Measurement	↑Preoperative Pain	.0398254	-.042381	.1214909
Prognostic Factor Measurement	↑Surgery Duration	.0012099	-.230934	.2332215
Prognostic Factor Measurement	↑Symptomatic Joints	-.1970977	-.3492267	-.0348474
Outcome Measurement	↑Knee Status	.1438768	-.0758673	.3503173
Outcome Measurement	↑Mental Health	.1220621	-.0145701	.2542162
Outcome Measurement	↑Mobility	.2544658	.0522105	.4366684
Outcome Measurement	↑Outcome Expected	.0416651	-.2145815	.2925428
Outcome Measurement	↑Preoperative Function	.1380555	.0164913	.2555974
Outcome Measurement	↑Catastrophizing	-.2446435	-.4701152	.0107985
Outcome Measurement	↑Comorbidity	-.0239961	-.1224817	.0749586
Outcome Measurement	Cruciate Retaining	.0875719	-.0344355	.2070066
Outcome Measurement	↑BMI	-.1489251	-.2449921	-.0499614
Outcome Measurement	↑K-L Grade	.1004358	.0114511	.1878413
Outcome Measurement	↑Kinesophobia	-.0012078	-.2332215	.2309341

Outcome Measurement	Male Gender	.0535947	-.0433122	.1494959
Outcome Measurement	Multicompartment OA	-.0148018	-.1373228	.1081642
Outcome Measurement	↑Age	-.046835	-.1330566	.0400981
Outcome Measurement	↑Pain Self-Efficacy	.1537482	-.0133514	.3124918
Outcome Measurement	Patella Resurfaced	.0371242	-.085861	.1589939
Outcome Measurement	↑Preoperative Pain	.0398254	-.042381	.1214909
Outcome Measurement	↑Surgery Duration	.0012099	-.230934	.2332215
Outcome Measurement	↑Symptomatic Joints	-.1970977	-.3492267	-.0348474
Study Confounding	↑Knee Status	.1438906	-.081434	.3552223
Study Confounding	↑Mental Health	.1220604	-.0195056	.2588282
Study Confounding	↑Outcome Expected	.0416636	-.1608326	.240794
Study Confounding	↑Preoperative Function	.1863531	.0503854	.315535
Study Confounding	↑Catastrophizing	-.2446464	-.4773555	.0201301
Study Confounding	↑Comorbidity	-.0239955	-.1998238	.153332
Study Confounding	Cruciate Retaining	.0875715	-.0368199	.2092905
Study Confounding	↑BMI	-.1489248	-.2477128	-.0470718
Study Confounding	↑K-L Grade	.1004353	.0082223	.1909545
Study Confounding	↑Kinesophobia	-.0012089	-.2344216	.2321355
Study Confounding	Male Gender	.0535913	-.0462903	.152412
Study Confounding	Multicompartment OA	-.0148024	-.1396434	.1105018
Study Confounding	↑Age	-.0808168	-.173188	.0129638
Study Confounding	↑Pain Self-Efficacy	.1537472	-.0151047	.3140733
Study Confounding	Patella Resurfaced	.0371236	-.0882123	.1613024

Study Confounding	↑Preoperative Pain	.0398227	-.0458679	.1249315
Study Confounding	↑Surgery Duration	.0012087	-.2321355	.2344216
Study Confounding	↑Symptomatic Joints	-.1970987	-.3507967	-.0330603
Statistical Analysis & Reporting	↑Knee Status	.1438709	-.0878438	.3608505
Statistical Analysis & Reporting	↑Mental Health	.1305	-.0422659	.2955705
Statistical Analysis & Reporting	↑Outcome Expected	.041638	-.2604262	.3363232
Statistical Analysis & Reporting	↑Preoperative Function	.2046128	.0356259	.3622169
Statistical Analysis & Reporting	↑Comorbidity	-.0277205	-.141957	.0872761
Statistical Analysis & Reporting	Cruciate Retaining	.0875583	-.0432345	.2154257
Statistical Analysis & Reporting	↑BMI	-.1736245	-.2836936	-.0590136
Statistical Analysis & Reporting	↑K-L Grade	.1004227	-.0002653	.1991194
Statistical Analysis & Reporting	Male Gender	.0615529	-.0510875	.172659
Statistical Analysis & Reporting	Multicompartment OA	-.0148157	-.1458837	.1167897
Statistical Analysis & Reporting	↑Age	-.0909736	-.1945621	.0146535
Statistical Analysis & Reporting	↑Pain Self-Efficacy	.1537341	-.0198638	.3183579
Statistical Analysis & Reporting	Patella Resurfaced	.0371104	-.0945377	.1675086
Statistical Analysis & Reporting	↑Preoperative Pain	.0435219	-.0533316	.1395834
Statistical Analysis & Reporting	↑Symptomatic Joints	-.1971116	-.3550482	-.0282085

eTable 2. Reported Associations at 3 mo After TKA

Author, reference, year	Prognostic factor	Outcome	Published estimate
Lingard et al,[25] 2007	Distress/ physical function (SF-36 MH)	Womac function	LSM 3·5; p=0·14.
Berghmans et al,[39] 2019	Mental health (SF-12 mental health)	WOMAC function	B 0.27, CI95% 0.22 to 0.66, SE 0.11, p=0.00
Berghmans et al,[39] 2019	Preoperative function (WOMAC)	WOMAC function	B 0.44, SE 0.11, CI 95% 0.22 to 0.66, p=0.00
Lindner et al,[36] 2018	Preoperative function (WOMAC)	WOMAC function	β 0·45,SE B, β0.45, t 3·65; p=0·001

eTable 3. Definition and Labels of Factors*

Predictor Name	Definition
↑Age	Older age
Male Gender	Male (rather than female) gender
↑Preoperative Pain	More (worse) pain
↑Comorbidity	More comorbidities
↑BMI	Higher (worse) body mass index
↑Catastrophizing	More (worse) catastrophizing
↑Social Support	Better social support
↑Low Back Pain	More (worse) low back pain
↑Mental Health	Better (improved) mental health
↑Contralateral Knee Pain	More (worse) contralateral knee pain
↑Education	Higher educational attainment
Indian Ethnicity	Indian (rather than Chinese) Ethnicity
↑Knee Extension	Greater (better) knee extension
↑Preoperative Function	Better preoperative physical function
↑Preoperative knee status	Better knee status
↑Mobility	Better mobility
↑Pain Self-Efficacy	More (better) pain self-efficacy
↑Symptomatic Joints	More symptomatic joints
↑Kinesophobia	More (worse) kinesophobia
↑Surgery Duration	Longer surgery duration
Multicompartment OA	Multicompartment OA
↑K-L Grade	Higher (worse) Kellgren-Lawrence grade
Patella Resurfaced	Patella Resurfaced surgery
↑Outcome Expectation	Better outcome expected
Walking aid use	Walking aid use
↑Arthritis Helplessness	More (worse) arthritis helplessnes
Cruciate retaining surgery	Cruciate retaining surgery
↓Energy	Less energy
↑ Drowsiness	More drowsiness
↑ Bloating	More bloating
↑ Worrying	More worrying
↑ Problems sexuality	More problems sexuality
↑ Sleep dysfunction	Worse sleep dysfunction (PSQI)
↑ Day time sleepiness	More daytime sleepiness
↑ Sleep quality	Better sleep quality
↓ Sedentary behaviour	Less sedentary behaviour

*Labels for factors: direction of association is indicated by arrows, with ↑ symbol indicating "higher value of"; e.g., "↑Age" should be interpreted as "older age").

eTable 4. Grading of Recommendation Assessment, Development and Evaluation

4a

№ of studies (Reference number)	Certainty assessment at twelve months follow-up						Certainty of evidence with explanations for downgrading of evidence
	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	
Age							
5 (23, 25, 26, 29, 39)	observational studies	serious[a]	serious[b]	not serious	not serious	none	⊕⊕⊕◯ MODERATE [a]Two studies with high risk of bias at two or more domains. [b]Statistical heterogeneity and inconsistency in direction of effect.
Male gender							
4 (23, 25, 26, 29, 39)	observational studies	serious[c]	not serious	not serious	not serious	none	⊕⊕⊕◯ MODERATE [c]Two studies with high risk of bias at one or more domains.
Preoperative pain							
3 (23, 26, 28, 39)	observational studies	not serious	serious	not serious	not serious	none	⊕⊕⊕◯ MODERATE Statistical heterogeneity and inconsistency in direction of effect.
Comorbidity							
3 (23, 26, 29)	observational studies	serious[d]	not serious	not serious	not serious	none	⊕⊕⊕◯ MODERATE [d]Two studies with high risk of bias at one or more domains.
Higher BMI							
3 (23, 26, 27)	observational studies	serious[e]	not serious	not serious	not serious	none	⊕⊕⊕◯MODERATE [e]Two studies with high risk of bias at one or more domains.
Catastrophizing							

№ of studies (Reference number)	Certainty assessment at twelve months follow-up						Certainty of evidence with explanations for downgrading of evidence
	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	
1 (27)	observational studies	serious[f]	not serious	not serious	very serious[g]	none	⊕◯◯◯ VERY LOW [f]One study with three domains rated with high risk of bias. [g]One study and small sample size (n=120)
Mental health							
5 (23, 24, 26, 27, 29)	observational studies	serious[h]	not serious	not serious	not serious	none	⊕⊕⊕ MODERATE [h]High risk of bias on several domain from several studies.
Preoperative function							
5 (23,25-27, 29, 38)	observational studies	serious[i]	serious[j]	not serious	not serious	none	⊕⊕◯◯ LOW [i]Two studies with high risk of bias at two or more domains. [j]Statistical heterogeneity and inconsistency in direction of effect.
Mobility							
1 (25)	observational studies	serious[k]	not serious	not serious	very serious[l]	none	⊕◯◯◯ VERY LOW [k]One study with three domains rated with high risk of bias. [l]One study with small sample size (n=115) and wide confidence interval
Pain self-efficacy							
1 (29)	serious[m]	not serious	not serious	not serious	very serious[n]	none	⊕◯◯◯ VERY LOW [m]High risk of bias at one domain. [n]One study and small sample size.
Symptomatic joints							
1 (29)	not serious	not serious	not serious	not serious	very serious[o]	none	⊕⊕◯◯ LOW [o]Estimate based on one study (n=220).
Kinesophobia							

№ of studies (Reference number)	Certainty assessment at twelve months follow-up						Certainty of evidence with explanations for downgrading of evidence
	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	
1 (26)	observational studies	serious[p]	not serious	not serious	very serious[p]	none	⊕◯◯◯ VERY LOW [p]One study with three domains rated with high risk of bias. [p]Estimate based on one study with small sample size (n=120).
Surgery duration							
1 (26)	observational studies	serious[r]	not serious	not serious	very serious[s]	none	⊕◯◯◯ VERY LOW [r]One study with three domains rated with high risk of bias. [s]Estimate based on one study with small sample size (n=120).
Multicompartment osteoarthritis							
1 (23)	observational studies	not serious	not serious	not serious	serious[t]	none	⊕⊕⊕ MODERATE [t]Estimated based on one study (n=473)
K-L grade							
2 (23,28)	observational studies	not serious	not serious	not serious	not serious	none	⊕⊕⊕⊕ HIGH
Patella resurfaced							
1 (23)	observational studies	not serious	not serious	not serious	serious[u]	none	⊕⊕⊕ MODERATE [u]Estimated based on one study (n=473)
Outcome expected							
1 (27)	observational studies	not serious	not serious	not serious	very serious[v]	none	⊕⊕◯◯ LOW [v]Estimated based on one study (n=146)
Cruciate retaining							
1 (23)	observational studies	not serious	not serious	not serious	serious[w]	none	⊕⊕⊕ MODERATE [w]Estimate based on one study (n=473)
Knee status							

№ of studies (Reference number)	Certainty assessment at twelve months follow-up						Certainty of evidence with explanations for downgrading of evidence
	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	
1 (38)	observational studies	serious	not serious	not serious	very[x] serious	None	[x] Estimate based on one study (n=144)

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eTable 4. Grading of Recommendation Assessment, Development and Evaluation

4b

№ of studies (Reference)	Certainty assessment six months follow-up						Certainty of evidence with explanations for downgrading of evidence
	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	
Age							
2 (31, 32)	observational	serious[a]	serious[b]	not serious	not serious	none	⊕⊕◯◯ LOW [a]One study with high risk of bias at two domains inical and statistical heterogeinity. [b]Clinical and statistical heterogeinity
Male gender							
2 (31, 32)	observational	not serious	not serious	not serious	not serious	none	⊕⊕⊕⊕ HIGH
Preoperative pain							
1 (32)	observational	not serious	not serious	not serious	serious[c]	none	⊕⊕⊕◯ MODERATE [c] Estimate based on one study (n= 4026)
Comorbidity							
3 (30,31,32)	observational	serious[d]	not serious	not serious	not serious	none	⊕⊕⊕◯ MODERATE [d]Two studies with high risk of bias at one or more domains
BMI							
1 (32)	observational	not serious	not serious	not serious	serious[e]	none	⊕⊕⊕◯ MODERATE [e]Estimate based on one study (n= 4026)
Catastrophizing							
2 (36,42)	observational	serious[f]	not serious	not serious	very serious[g]	none	⊕◯◯◯ VERY LOW [f]One study with high risk of bias at one domain. [g]Estimate with imprecise estimated, based on one single study (n=131)
Social support							

№ of studies (Reference)	Certainty assessment six months follow-up						Certainty of evidence with explanations for downgrading of evidence
	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	
2 (31,32)	observational studies	not serious	not serious	not serious	not serious	none	⊕⊕⊕⊕ HIGH
Low back pain							
1 (31)	observational studies	serious[h]	not serious	not serious	serious[i]	none	⊕⊕◯◯ LOW [h]One study rated with high risk of bias at two domains. [i]Estimate based on one large study (n=640)
Mental health							
2 (31, 32, 42)	observational	not serious	not serious	not serious	not serious	none	⊕⊕⊕⊕ HIGH
Contralateral knee pain							
1 (32)	observational	not serious	not serious	not serious	serious[j]	none	⊕⊕⊕◯ MODERATE [j]Estimate based on one study (n=4026)
Education							
1 (32)	observational	not serious	not serious	not serious	serious[k]	none	⊕⊕⊕◯ MODERATE [k]Estimate based on one study (n= 4026)
Indian ethnicity							
1 (32)	observational	not serious	not serious	not serious	serious[l]	none	⊕⊕⊕◯ MODERATE [l]Estimate based on one study (n= 4026)
Knee extension							
1 (32)	observational	not serious	not serious	not serious	serious[m]	none	⊕⊕⊕◯ MODERATE [m]Estimate based on one study (n= 4026)
Preoperative function							
3 (31-33)	observational	serious[n]	not serious	not serious	not serious	none	⊕⊕⊕◯ MODERATE [n]Two studies rated with high risk of bias at two or more domains
Mobility							

№ of studies (Reference)	Certainty assessment six months follow-up						Certainty of evidence with explanations for downgrading of evidence
	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	
1 (34)	observational	not serious	not serious	not serious	very serious[o]	none	⊕⊕◯◯ LOW [o]Estimate based on one study (n=81)
Pain self-efficacy							
1 (37)	observational	serious[p]	not serious	not serious	very serious[q]	none	⊕◯◯◯ VERY LOW [p]High risk on bias on four domains. [q]One study (n=54), statistical imprecise.
Walking aid use							
2 (32,42)	observational	not serious	not serious	not serious	serious	none	⊕⊕⊕⊕ HIGH
Arthritis Helplessness							
1 (37)	observational	serious[s]	not serious	not serious	very serious[t]		⊕◯◯◯ VERY LOW [s]One study and high risk of bias for several domains. [t]Estimate based on one study (n=54)
Knee flexion							
1 (32)	observational	not serious	not serious	not serious	serious[u]	none	⊕⊕⊕◯ MODERATE [u]Estimate based on one study (n= 4026)

References

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eTable 5. Search Strategy

Ovid MEDLINE(R) ALL 1946 to October 04, 2021
Search date: 05.10.2021
Result of search: 6577
Search Strategy:

#	Searches	Results
1	Arthroplasty, Replacement, Knee/	27391
2	(tkr or tjkr or tka or tjka).tw,kf.	15451
3	(knee* adj3 (arthroplast* or replacement*)).tw,kf.	36674
4	(total adj2 knee*).tw,kf.	29088
5	(knee* adj2 prosthes*).tw,kf.	3084
6	or/1-5	43063
7	risk/ or risk factors/ or logistic models/ or protective factors/ or risk assessment/	1292658
8	prognosis/ or (prognos* or risk* or predict*).tw,kf.	4462045
9	(preoperative factor* or pre operative factor* or protective factor*).tw,kf.	24813
10	or/7-9	4839127
11	and/6,10	11731
12	(pain adj3 (post* or ongoing or on going or long* or persist* or prolong* or after or follow*)).tw,kw.	102501
13	pain, postoperative/	43031
14	(Pain/ or chronic pain/ or musculoskeletal pain/) and (post* or ongoing or on going or long* or persist* or prolonged or after or follow*).tw,kf.	68062
15	cohort studies/ or follow-up studies/ or longitudinal studies/ or prospective studies/ or retrospective studies/	2219694
16	pain.tw,kf.	685484
17	and/15-16	125324
18	or/12-14,17	257072
19	and/11,18	1629
20	(function* or stiffness or contracture*).tw,kf.	4074115
21	(muscle adj3 (strength* or weakness or fatigue or tonus)).tw,kf.	52213
22	Contracture/	8294
23	"Recovery of Function"/	56792
24	"Range of Motion, Articular"/	55499
25	locomotion/ or walking/ or gait/ or walking speed/ or stair climbing/	83838
26	"Activities of Daily Living"/ or (adl or (daily adj3 activit*)).tw,kf.	109732
27	Movement/	76933
28	muscle fatigue/ or muscle tonus/ or physical exertion/ or postural balance/ or Muscle Strength/	116716

29	(sitting or lying or standing or balance or posture or rising or neeling or bend* or walk* or gait or stair* or extension* or stability or contracture* or movement* or motion* or locomotion* or mobility or twisting or pivoting or straighten* or swelling or grinding or clicking or squatting or running or jumping).tw,kf.	2041300
30	treatment outcome/ or treatment failure/ or outcome*.tw,kf.	2666783
31	patient reported outcome measures/	9627
32	("Knee injury and Osteoarthritis Outcome Score" or womac or koos or "American Knee Society Score" or AKSS or Kellgren Lawrence).tw,kf.	9722
33	or/20-32	7873792
34	cohort studies/ or follow-up studies/ or longitudinal studies/ or prospective studies/ or retrospective studies/	2219694
35	Postoperative Period/	54421
36	(post* or after or follow* or cohort* or prospectiv* or longitudinal).tw,kf.	9493302
37	or/34-36	10040161
38	and/11,33,37	6598
39	or/19,38	6890
40	limit 39 to yr="2000 -Current"	6577

Embase Classic+Embase 1947 to 2021 October 04
Search date: 05.10.2021
Result of search: 6456

Search Strategy:

#	Searches	Results
1	knee replacement/ or total knee arthroplasty/	18303
2	(tkr or tjkr or tka or tjka).tw,kw.	18755
3	(knee adj3 (arthroplast* or replacement*)).tw,kw.	45317
4	(total adj2 knee*).tw,kw.	35030
5	(knee* adj2 prosthes*).tw,kw.	4009
6	or/1-5	52283
7	risk factor/ or risk/ or protection/ or risk assessment/	2124295
8	prognosis/ or (prognos* or risk* or predict*).tw,kw.	6181483
9	"prediction and forecasting"/ or prediction/	448064
10	(preoperative factor* or pre operative factor* or protective factor*).tw,kw.	33029
11	or/7-10	6686278
12	and/6,11	14777
13	(pain adj3 (post* or ongoing or on going or long* or persist* or prolong* or after or follow*)).tw,kw.	153914
14	postoperative pain/	75694
15	(pain/ or chronic pain/ or musculoskeletal pain/) and (post* or ongoing or on going or long* or persist* or prolonged or after or follow*).tw,kw.	242372
16	cohort analysis/ or follow up/ or longitudinal study/ or prospective study/ or retrospective study/	3602464
17	pain.tw,kw.	1050089
18	and/16-17	237320
19	or/13-15,18	516581
20	and/12,19	2853
21	knee function/ or muscle function/ or muscle rigidity/ or muscle contraction/ or muscle strength/ or muscle fatigue/ or muscle function/ or muscle stretching/ or muscle weakness/	245358
22	contracture/ or flexion contracture/ or joint contracture/ or muscle contracture/	22050
23	convalescence/	57391
24	locomotion/ or climbing/ or stair climbing/ or jumping/ or walking/ or gait/ or walking speed/	219096
25	daily life activity/ or (daily life activity or actvities of daily living or adl).tw,kw.	106658
26	exp musculoskeletal function/ or Movement/	1219923
27	joint swelling/ or grinding/	12441

28	(function* or stiffness or contracture*).tw,kw.	5229428
29	(muscle adj3 (strength* or weakness or fatigue or tonus)).tw,kw.	76148
30	(sitting or lying or standing or balance or posture or rising or neeling or bend* or walk* or gait or stair* or extension* or stability or contracture* or movement* or motion* or locomotion* or mobility or twisting or pivoting or straighten* or swelling or grinding or clicking or squatting or running or jumping).tw,kw.	2586868
31	treatment outcome/ or treatment failure/ or patient-reported outcome/ or clinical outcome/ or outcome*.tw,kw.	3599641
32	"knee injury and osteoarthritis outcome score"/ or "Western Ontario and McMaster Universities Osteoarthritis Index"/ or ("Knee injury and Osteoarthritis Outcome Score" or womac or koos or "American Knee Society Score" or AKSS or Kellgren Lawrence).tw,kw.	17894
33	or/21-32	10631159
34	cohort analysis/ or follow up/ or longitudinal study/ or prospective study/ or retrospective study.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]	3636540
35	postoperative period/	234631
36	(post* or after or follow* or cohort* or prospectiv* or longitudinal).tw,kw.	13477914
37	or/34-36	14175462
38	and/12,33,37	8304
39	or/20,38	8832
40	limit 39 to yr="2000 -Current"	8546
41	limit 40 to conference abstract	2086
42	40 not 41	6456

CINAHL(Ebsco):
Search date: 05.10.2021
Result of search: 2412

#	Query	Limiters/Expanders	Results
S1	(MH "Arthroplasty, Replacement, Knee+")	Search modes - Boolean/Phrase	18,460
S2	TX tkr or tjkr or tka or tjka	Search modes - Boolean/Phrase	7,676
S3	TX knee* N3 (arthroplast* or replacement*)	Search modes - Boolean/Phrase	18,510
S4	TX (total N2 knee*)	Search modes - Boolean/Phrase	15,292

S5	TX (knee* N2 prosthes*)	Search modes - Boolean/Phrase	874
S6	S1 OR S2 OR S3 OR S4 OR S5	Search modes - Boolean/Phrase	23,578
S7	(MH "Risk Factors")	Search modes - Boolean/Phrase	190,050
S8	(MH "Risk Assessment")	Search modes - Boolean/Phrase	120,213
S9	MH "Prognosis")	Search modes - Boolean/Phrase	88,876
S10	TX prognos* or risk* or predict* or preoperative factor* or protective factor*	Search modes - Boolean/Phrase	1,141,387
S11	S7 OR S8 OR S9 OR S10	Search modes - Boolean/Phrase	1910,505
S12	S6 AND S11	Search modes - Boolean/Phrase	6,153
S13	(TX pain N2 (TX (post* or ongoing or "on going" or long* or persist* or prolong* or after or follow*)) OR (MH "Postoperative Pain") OR TX pain AND (MH "Prospective Studies+")	Search modes - Boolean/Phrase	80,496
S14	(MH "Pain+") OR (MH "Knee Pain+") OR (MH "Muscle Pain") AND TX post* or ongoing or "on going" or long* or persist* or prolong* or after or follow*	Search modes - Boolean/Phrase	1,903,304
S15	S13 OR S14	Search modes - Boolean/Phrase	1,903,304
S16	S12 AND S15	Search modes - Boolean/Phrase	4,814
S17	(MH "Movement") OR (MH "Hopping") OR (MH "Jumping") OR (MH "Kneeling+") OR (MH "Extension+") OR (MH "Locomotion") OR (MH "Walking+") OR (MH "Gait+") OR (MH "Step") OR (MH "Range of Motion") OR (MH "Rising") OR (MH "Sitting") OR (MH "Squatting") OR (MH "Stair Climbing") OR (MH "Standing+") OR (MH "Stretching")	Search modes - Boolean/Phrase	92,949
S18	(MH "Muscle Fatigue") OR (MH "Muscle Strength+") OR (MH "Muscle Tonus")	Search modes - Boolean/Phrase	30,937
S19	TX (function* or stiffness or contracture*)	Search modes - Boolean/Phrase	500,860

S20	TX (muscle N3 (strength* or weakness or fatigue or tonus))	Search modes - Boolean/Phrase	21,279
S21	(MH "Contracture+")	Search modes - Boolean/Phrase	2,204
S22	(MH "Activities of Daily Living+")	Search modes - Boolean/Phrase	75,269
S23	TX (actvities or daily living or adl)	Search modes - Boolean/Phrase	46,034
S24	(MH "Treatment Outcomes+") OR (MH "Fatal Outcome") OR (MH "Treatment Failure")	Search modes - Boolean/Phrase	402,301
S25	TX outcome*	Search modes - Boolean/Phrase	721,791
S26	TX "Knee injury and Osteoarthritis Outcome Score" or womac or koos or "American Knee Society Score" or AKSS or Kellgren Lawrence)	Search modes - Boolean/Phrase	11,338
S27	S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26	Search modes - Boolean/Phrase	1,470,810
S28	(MH "Postoperative Period") OR (MH "Prospective Studies+")	Search modes - Boolean/Phrase	491,778
S29	TX (post* or after or follow* or cohort* or prospectiv* or longitudinal)	Search modes - Boolean/Phrase	1,845,119
S30	S28 OR S29	Search modes - Boolean/Phrase	1,966,707
S31	S12 AND S27 AND S30	Search modes - Boolean/Phrase	3,363
S32	S16 OR S31 **Limiters** - Published Date: 20000101-20211031	Search modes - Boolean/Phrase	5,059

The Cochrane Library
Search date: 05.10.2021

Result of search: 1127 Cochrane Reviews (21) Trials (1106)

#1	MeSH descriptor: [Arthroplasty, Replacement, Knee] explode all trees	2721
#2	(tkr or tjkr or tka or tjka):ti,ab,kw	3715
#3	(knee near/3 (arthroplast* or replacement*)):ti,ab,kw	8696
#4	(total near/2 knee*):ti,ab,kw	7164
#5	(knee near/2 prosthes*):ti,ab,kw	1284
#6	#1 or #2 or #3 or #4 or #5	9242
#7	MeSH descriptor: [Risk] explode all trees	38325
#8	MeSH descriptor: [Prognosis] this term only	14053
#9	(prognos* or risk* or predict*):ti,ab,kw	354478
#10	((preoperative or "pre operative" or protective) near/2 factor*):ti,ab,kw	1482
#11	#7 or #8 or #9 or #10	356939
#12	#6 and #11	1585
#13	(pain near/3 (post* or ongoing or "on going" or long* or persist* or prolong* or after or follow*)):ti,ab,kw	56869
#14	MeSH descriptor: [Pain, Postoperative] explode all trees	16393
#15	MeSH descriptor: [Pain] this term only	11960
#16	MeSH descriptor: [Chronic Pain] this term only	2790
#17	MeSH descriptor: [Musculoskeletal Pain] this term only	531
#18	#14 or #15 or #16 or #17	31200
#19	(post* or ongoing or on going or long* or persist* or prolonged or after or follow*):ti,ab,kw	1143252
#20	#18 and #19	26936
#21	MeSH descriptor: [Cohort Studies] explode all trees	154431
#22	(pain):ti,ab,kw	195141
#23	#21 and #22	21911
#24	#13 or #20 or #23	75837
#25	#12 and #24	420
#26	(function* or stiffness or contracture*):ti,ab,kw	286360
#27	(muscle near/3 (strength* or weakness or fatigue or tonus)):ti,ab,kw	21991
#28	MeSH descriptor: [Contracture] this term only	188
#29	MeSH descriptor: [Recovery of Function] this term only	5518
#30	MeSH descriptor: [Range of Motion, Articular] this term only	5055
#31	MeSH descriptor: [Locomotion] explode all trees	8647
#32	MeSH descriptor: [Walking] explode all trees	5891
#33	MeSH descriptor: [Activities of Daily Living] this term only	5124
#34	("actvities of daily living" or adl):ti,ab,kw	3712
#35	MeSH descriptor: [Movement] this term only	2471
#36	MeSH descriptor: [Muscle Fatigue] this term only	1022
#37	MeSH descriptor: [Muscle Tonus] this term only	292
#38	MeSH descriptor: [Physical Exertion] explode all trees	3931
#39	MeSH descriptor: [Postural Balance] this term only	2960

#40	MeSH descriptor: [Muscle Strength] this term only	4843
#41	(sitting or lying or standing or balance or posture or rising or neeling or bend* or walk* or gait or stair* or extension* or stability or contracture* or movement* or motion* or locomotion* or mobility or twisting or pivoting or straighten* or swelling or grinding or clicking or squatting or running or jumping):ti,ab,kw	173425
#42	MeSH descriptor: [Treatment Outcome] this term only	139508
#43	MeSH descriptor: [Treatment Failure] this term only	3374
#44	(outcome):ti,ab,kw	536106
#45	MeSH descriptor: [Patient Reported Outcome Measures] this term only	811
#46	("Knee injury and Osteoarthritis Outcome Score" or womac or koos or "American Knee Society Score" or AKSS or "Kellgren Lawrence"):ti,ab,kw	6098
#47	#26 or #27 or #28 or #29 or #30 or #31 or #32 or #33 or #34 or #35 or #36 or #37 or #38 or #39 or #40 or #41 or #42 or #43 or #44 or #45 or #46	791259
#48	MeSH descriptor: [Cohort Studies] explode all trees	154431
#49	MeSH descriptor: [Postoperative Period] explode all trees	6137
#50	(post* or after or follow* or cohort* or prospectiv* or longitudinal):ti,ab,kw	1150202
#51	#48 or #49 or #50	1151727
#52	#47 and #51	604333
#53	#12 and #52	1089
#54	#25 or #53 with Cochrane Library publication date Between Jan 2000 and Oct 2021	1127

PRDro (Physiotherapy Evidence Database):

Search date: 05.10.2021
Result of search: Søk 1: 120 Søk 2: 13

Søk 1: Abstract & Title : total knee* replacement*, Body Part: lower leg or knee, Published since:2000
Søk 2: Abstract & Title:, knee* prosthes*, Body Part: lower leg or knee, Published since: 2000

eTable 6. Reason for Exclusion of Individual Studies

Authors and year	Reason for exclusion*
(Abane et al., 2015)	1. No regression performed
(Abdel et al., 2014)	1. No regression performed
(Aderinto et al., 2005)	5. Not separate analysis for OA
(Adie et al., 2012)	1. No regression performed
(Ahmed et al., 2009)	1. No regression performed
(Alentorn-Geli et al., 2013)	1. No regression performed
(Alomran, 2015)	1. No regression performed
(Amusat et al., 2014)	7. Insufficient information about the sample**
(Andrawis et al., 2015)	5. Not separate analysis for TKA
(Arden et al., 2017)	3. Inadequate study design
(Arendt-Nielsen et al., 2018)	4. Predictor not evaluated
(Arendt-Nielsen et al., 2018)	2. Duplicate publication
(Aso et al., 2021)	5. Not separate analysis for TKA
(Attal et al., 2014)	4. Outcome not evaluated
(Ayers et al., 2005)	5. Not separate analysis for OA
(Ayers et al., 2013)	5. Not separate analysis for OA
(Bade et al., 2012)	5. Not separate analysis intervention & control
(Bade et al., 2014)	5. Not separate analysis intervention & control
(Barrack et al., 2014)	3. Inadequate study design
(Barroso et al., 2020)	3. Inadequate aim
(Bascuas et al., 2013)	1. No regression performed for the outcome
(Bauer et al., 2010)	6. Insufficient follow-up time
(Behrend et al., 2019)	3. Inadequate study design
(Belford et al., 2020)	7. Insufficient data about the sample**
(Berghmans et al., 2015)	2. Conference abstract
(Bergschmidt et al., 2008)	1. No regression performed
(Bethge et al., 2010)	1. No regression performed
(Bian et al., 2021)	3. Inadequate aim
(Bierke and Petersen, 2017)	1. No regression performed
(Bin and Nam, 2007)	1. No regression performed
(Bistolfi et al., 2017)	1. No regression performed
(Blackburn et al., 2012)	1. No regression performed
(Boerger et al., 2005)	1. No regression performed
(Bossmann et al., 2017)	4. Outcome not evaluated
(Bove et al., 2022)	5. Not separate measure of function
(Braaksma et al., 2020)	6. Insufficient follow-up time
(Brander et al., 2003)	5. Not separate reporting for the OA population
(Brock et al., 2017)	5. Not separate reporting for the OA population
(Brockenbrough, 2007)	7. Insufficient data about the sample**
(Browne, 2013)	2. Commentary
(Brummett et al., 2011)	2. Conference abstract
(Brummett et al., 2013)	2. Conference abstract
(Brummett et al., 2015)	5. Not separate reporting for TKA population
(Bumberger et al., 2021)	3. Inadequate study design
(Buvanendran et al., 2011)	2. Conference abstract
(Buvanendran et al., 2012)	2. Conference abstract
(Caracciolo and Giaquinto, 2005)	3. Inadequate aim
(Carvalho Junior et al., 2017)	1. No regression performed
(Chalidis et al., 2010)	1. No regression performed for the outcome
(Chang et al., 2010)	5. Not separate analysis for TKA

(Chen et al., 2021)	3. Inadequate aim
(Cheng et al., 2010)	3. Inadequate study design
(Cheuy et al., 2019)	1. No regression performed for the outcome
(Chouteau et al., 2009)	3. Ineligible study design
(Chowdhry et al., 2014)	3. Ineligible study design
(Christensen et al., 2019)	7. Insufficient data**
(Christensen et al., 2021)	3. Inadequate aim
(Clement et al., 2013a)	4. Outcome not evaluated
(Clement et al., 2013b)	5. Not separate data for function
(Clement et al., 2011)	1. No regression performed for the outcome
(Clement et al., 2013c)	5. Not separate data for function
(Collins et al., 2017)	5. Not separate analysis intervention & control
(Collins et al., 2016)	2. Conference abstract
(Cooper et al., 2017)	5. Not separate analysis intervention & control
(Cornelius et al., 2017)	2. Conference abstract
(Cornelius et al., 2015)	2. Conference abstract
(Cremeans-Smith et al., 2012)	2. Conference abstract
(Cremeans-Smith et al., 2015a)	4. Outcome not evaluated
(Cremeans-Smith et al., 2013)	2. Conference abstract
(Cremeans-Smith et al., 2015b)	4. Outcome not evaluated
(Cremeans-Smith et al., 2018)	2. Conference abstract
(Cremeans-Smith et al., 2016)	4. Outcome not evaluated
(Dailiana et al., 2015)	2. Duplicate
(Dalury et al., 2009)	1. No regression performed for the outcome
(Dave et al., 2017)	3. Insufficient aim
(Davis et al., 2009)	2. Conference abstract
(Davis et al., 2017)	2. Conference abstract
(Dere et al., 2014)	1. No regression performed for the outcome
(Desmeules et al., 2013)	5. Not separate analysis for OA
(Dierick et al., 2004)	1. No regression performed for the outcome
(Djadoun et al., 2014)	2. Conference abstract
(Dossett et al., 2012)	1. No regression performed for the outcome
(Dowsey et al., 2009)	5. Not separate analysis for OA
(Dowsey et al., 2014)	5. Not separate analysis for OA
(Dowsey et al., 2015)	5. Not separate analysis for OA
(Dowsey et al., 2016)	5. Not separate analysis for OA
(Doury-Panchout et al., 2015)	3. Ineligible study design
(Duivenvoorden et al., 2013)	5. Not separate analysis for OA
(Dumenci et al., 2019)	5. Not separate analysis for OA
(Dursteler et al., 2021)	1. No adequate regression performed
(Dutka et al., 2011)	5. Not separate analysis for OA
(Dutton et al., 2008)	1. No regression performed for the outcome
(Edwards et al., 2009)	4. Outcome not evaluated
(Ellis et al., 2012)	1. No regression performed for the outcome
(Faller et al., 2003)	2. Letter to editor
(Farahini et al., 2012)	5. Not separate analysis for OA
(Farin et al., 2006)	5. Not separate analysis for TKA
(Fernandez-Fairen et al., 2013)	1. No regression performed for the outcome
(Ferreira et al., 2021)	1. No adequate regression performed
(Ferrer et al., 2020)	3. Inadequate aim
(Filardo et al., 2017)	5. Not separate data for function, used a total score
(Filbay and Judge, 2017)	2. Conference
(Filbay et al., 2018)	5. Not separate reporting of function

(Fitzpatrick et al., 2017)	2. Conference
(Fitzsimmons et al., 2018)	4. Outcome not evaluated
(Fitzsimmons et al., 2018)	2. Duplicate publication
(Fleeton et al., 2016)	5. Allocation groups were pooled
(Foran et al., 2004)	6. Insufficient follow-up time
(Forsythe et al., 2008)	1. No regression performed
(Franklin et al., 2008)	5. Not separate analysis for OA
(Franklin et al., 2013)	2. Conference
(Furu et al., 2016)	5. Not separate analysis for OA
(Gandhi et al., 2009a)	5. Not separate analysis for TKA
(Gandhi et al., 2010a)	5. Not separate analysis for TKA
(Gandhi et al., 2010b)	2. Duplicate publication
(Gandhi et al., 2010c)	5. Not separate analysis for TKA
(Gandhi et al., 2009b)	5. Not separate analysis for TKA
(Gandhi et al., 2009c)	5. Not separate analysis for TKA
(Gandhi et al., 2009d)	5. Not separate analysis for TKA
(Gates et al., 2016)	2. Conference
(Gates et al., 2017)	4. Outcome not evaluated
(Gatha et al., 2004)	6. Insufficient follow-up time
(Getachew et al., 2021)	3. Inadequate aim
(Giesinger et al., 2016)	2. Conference
(Giordano et al., 2020)	1. No adequate regression performed
(Giordano et al., 2021)	3. Inadequate aim
(Gonzalez Saenz de Tejada et al., 2014)	5. Not separate analysis for TKA
(Graves et al., 2014)	1. No regression performed
(Gray et al., 2017)	5. Used the total score of WOMAC
(Greco et al., 2017)	2. Conference abstract
(Greenidge et al., 2009)	2. Conference abstract
(Grosu et al., 2013)	2. Conference abstract
(Group et al., 2009)	1. No regression performed
(Guimaraes-Pereira et al., 2016)	5. Not separate analysis for TKA
(Gøthesen et al., 2014)	5. Not separate results for OA
(Ha and Ha, 2006)	7. Insufficient information about age
(Halket et al., 2010)	5. Not separate analysis for TKA
(Hamilton et al., 2015)	1. No regression performed
(Hamilton et al., 2017)	2. Conference abstract
(Hamilton et al., 2021)	5. Not separate measure of function
(Hanratty et al., 2011)	1. No regression performed
(Hanusch et al., 2014)	7. Insufficient information follow-up time**
(Harden et al., 2003)	4. Outcome not evaluated
(Hasegawa et al., 2021)	3. Inadequate aim
(Hashimoto et al., 2019)	1. No regression performed
(Hemert et al., 2011)	1. No regression performed
(Hinarejos et al., 2016)	1. No regression performed
(Hirschmann et al., 2010)	1. No regression performed
(Hirschmann et al., 2013)	1. No regression performed
(Hitt et al., 2015)	1. No regression performed
(Hodges et al., 2018)	5. Outcome not evaluated
(Hodges et al., 2018)	2. Duplicate publication
(Hommel et al., 2017)	1. No regression performed.
(Hofstede et al., 2018)	3. Inadequate study design
(Hofstede et al., 2018)	2. Duplicate publication
(Hooper et al., 2012)	1. No regression performed

(Hylkema et al., 2019)	2. Duplicate
(Hourlier and Fennema, 2014)	1. No regression performed
(Hovik et al., 2016)	1. No regression performed
(Hughes et al., 2018)	2. Conference abstract
(Haanstra et al., 2015)	3. Inadequate aim
(Ingleshwar et al., 2013)	2. Conference abstract
(Jacobs et al., 2016a)	2. Conference abstract
(Jacobs et al., 2016b)	2. Conference abstract
(Jain et al., 2017)	7. Insufficient information**
(Jamsen et al., 2015)	2. Conference abstract
(Jarvenpaa et al., 2010a)	1. No regression performed
(Jarvenpaa et al., 2010b)	2. Duplicate
(Jefferies et al., 2012)	3. Study design
(Jiang et al., 2017)	5. Not separate analysis for OA
(Jolles et al., 2012)	5. Insufficient aim
(Jonbergen et al., 2011)	1. No regression performed
(Jones et al., 2012a)	6. Insufficient follow-up time
(Jones et al., 2003)	5. Not separate analysis for OA
(Jones et al., 2012b)	2. Conference abstract
(Judge et al., 2012)	7. Insufficient age of participant (<18 years)
(Judge et al., 2010)	2. Conference abstract
(Julie et al., 2013)	2. Conference abstract
(Kahlenberg et al., 2018)	1. No regression performed
(Kang et al., 2010)	3. Inadequate study design
(Katakam et al., 2021)	3. Inadequate study design
(Katz et al., 2011)	2. Conference abstract
(Keeney et al., 2017)	3. Inadequate aim
(Kelly et al., 2006)	3. Inadequate aim
(Kennedy et al., 2008)	3. Inadequate aim
(Khanna, 2016)	2. Conference abstract
(Kilicarslan et al., 2011)	1. No regression performed
(Kim et al., 2015)	5. Not separate analysis for TKA
(Kim et al., 2009)	1. No regression performed
(Ko et al., 2010)	2. Conference abstract
(Kornilov et al., 2018)	3. Inadequate aim
(Kurien et al., 2018)	3. Inadequate aim
(Kurien et al., 2018)	2. Duplicate publication
(Lam et al., 2003)	1. No regression performed
(Lamb and Frost, 2003)	1. No regression performed
(Lampe et al., 2016)	5. Pooled data intervention & control
(Lange et al., 2016)	2. Conference abstract
(Larsen et al., 2021)	5. Pooled data intervention & control
(Laskow et al., 2021)	5. Not separate analysis for OA
(Lebleu et al., 2019)	5. Not separate analysis for TKA
(Ledin et al., 2012)	1. No regression performed
(Lee et al., 2015)	5. Not separate analysis for TKA
(Leung et al., 2017)	2. Conference abstract
(Leung et al., 2019)	5. Not separate analysis for TKA
(Li et al., 2013)	2. Conference abstract
(Liebs et al., 2011)	5. Not separate analysis for TKA
(Lindberg et al., 2016)	1. No regression performed
(Lindner et al., 2018)	2. Duplicate
(Lingard et al., 2004)	1. Unknown if regression is performed**

(Liu et al., 2020)	1. No regression performed
(Lizaur-Utrilla et al., 2012)	3. Inadequate aim
(Lungu et al., 2014)	1. No regression performed
(Lustig et al., 2012)	5. Pooled data, more knees than patients
(Lutzner et al., 2014)	1. No regression performed
(Lützner et al., 2014)	1. No regression performed
(Macaulay et al., 2010)	2. Conference abstract
(Maculé et al., 2005)	1. No regression performed
(Maffulli et al., 2011)	3. Inadequate study design
(Magaldi et al., 2019)	3. Inadequate aim
(Mahomed et al., 2002)	5. Not separate analysis for TKA
(Mahoney et al., 2012)	1. No regression performed
(Malviya et al., 2009)	1. No regression performed
(Martinez et al., 2007)	1. No regression performed
(Mat et al., 2016)	3. Inadequate study design and aim
(Maus et al., 2017)	1. No regression performed
(Maxwell et al., 2013)	6. Insufficient follow-up time
(Meessen et al., 2018)	1. No regression performed
(Mehta and Lotke, 2007)	1. No regression performed
(Mehta et al., 2014)	2. Conference abstract
(Mehta et al., 2015)	3. Inadequate study design
(Meijerink et al., 2009)	6. Insufficient follow-up time
(Mercurio et al., 2020)	5. Not separate analysis for TKA
(Metsna et al., 2014)	1. No regression performed
(Miozzari et al., 2013)	2. Conference abstract
(Mittal et al., 2012)	1. No regression performed
(Mizner et al., 2005)	3. Inadequate aim
(Moghtadaei et al., 2020)	3. Inadequate study design
(Molt and Toksvig-Larsen, 2014)	1. No regression performed
(Morze et al., 2013)	1. No regression performed
(Motwani et al., 2013)	3. Inadequate study design
(Nandi et al., 2016)	2. Conference abstract
(Nankaku et al., 2018)	2. Duplicate publication
(Navarro Collado et al., 2000)	5. Not separate analysis for OA
(Naylor et al., 2008)	5. Not separate results for OA population
(Neogi et al., 2010)	2. Conference abstract
(Neuburger et al., 2013)	5. Not separate results for OA population
Neuprez et al., 2018)	5. Not separate results for TKA
(Neuprez et al., 2018)	2. Duplicate publication
(Nielsen et al., 2018)	6. Insufficient follow-up time
(Nielsen et al., 2018)	2. Duplicate publication
(Niki et al., 2015)	6. Insufficient follow-up time
(Noiseux et al., 2014)	5. Pooled data from intervention & control
(Nuñez et al., 2011)	3. Inadequate study design
(Nwankwo et al., 2021)	5. Not separate results for primary TKA
(Oatis et al., 2012)	2. Conference abstract
(Oberbek and Synder, 2015)	1. No regression performed
(Okamoto et al., 2014)	5. Pooled data, more knees than patients
(Otero et al., 2016)	6. Insufficient follow-up time.
(Ozdemir et al., 2017)	1. No regression performed
(Page et al., 2014)	2. Conference abstract
(Page et al., 2015)	1. No regression performed
(Pan et al., 2019)	3. Inadequate study design and aim

(Papakostidou et al., 2012)	7. Insufficient data on analysis**
(Parsley et al., 2010)	1. No regression performed
(Paxton et al., 2016)	6. Insufficient follow-up time
(Pereira et al., 2016)	5. Not separate results for TKA
(Perruccio et al., 2010a)	5. Not separate results for TKA
(Perruccio et al., 2010b)	2. Duplicate publication
(Perruccio et al., 2011a)	1. No regression performed
(Perruccio et al., 2011b)	2. Conference abstract
(Perruccio et al., 2019)	4. Outcome not evaluated
(Petersen et al., 2015)	3. Inadequate aim
(Petersen et al., 2017)	3. Inadequate aim
{Petersen, 2018 #897}	2. Duplicate publication
(Petersen et al., 2020)	3. Inadequate aim
(Pinsornsak et al., 2014)	1. No regression performed
(Pinto et al., 2013)	5. Not separate results for TKA
(Pinto et al., 2014)	2. Conference abstract
(Polkowski et al., 2013)	6. Insufficient follow-up time
(Pont et al., 2011)	1. No regression performed
(Pua et al., 2012)	2. Conference abstract
(Pua et al., 2017)	4. Prognostic factor not evaluated
(Pua et al., 2013)	4. Prognostic factor not evaluated
(Pua et al., 2015)	1. No regression performed
(Yong-Hao et al., 2016)	2. Same sample as in a later included study
(Quintana et al., 2006)	5. Not separate results for TKA
(Radmer et al., 2006)	5. Not separate results for OA
(Rajamaki et al., 2015)	5. Not separate results for OA
(Rakel et al., 2013)	2. Conference abstract
(Ramaesh et al., 2014)	5. Not separate results for OA
(Razmjou et al., 2015)	6. Insufficient follow-up time
(Reid et al., 2014)	3. Inadequate aim
(Richards et al., 2016)	2. Conference abstract
(Riddle et al., 2009)	2. Conference abstract
(Riddle et al., 2015)	1. No regression performed
(Riddle, 2018)	5. Not separate results for TKA
(Riddle et al., 2020)	5. Pooled results from RCT
(Rice et al., 2018)	5. Not separate results for OA
(Rosen et al., 2013)	3. Inadequate aim
(Russell et al., 2014)	1. No regression performed
(Sakellariou et al., 2016)	2. Conference abstract
(Salazar et al., 2013)	2. Conference abstract
(Sanchez-Santos et al., 2014)	2. Conference abstract
(Sanchez-Santos et al., 2018)	5. Not separate results for OA
(Schaumburger et al., 2012)	1. No regression performed
(Schwartz et al., 2012)	4. Prognostic factor not evaluated
(Scott et al., 2010)	4. Outcome not evaluated
(Scott et al., 2012)	4. Outcome not evaluated
(Seol et al., 2016)	3. Inadequate study design
(Sharma et al., 2021)	7. Insufficient data on population**
(Shim et al., 2018)	7. Age < 18 years
(Singh et al., 2015)	3. Inadequate study design
(Siviero et al., 2020)	5. Not separate results for TKA
(Slevin et al., 2017)	1. No regression performed
(Smith et al., 2006)	6. Insufficient follow-up time

(Smith et al., 2014)	5. Not separate results for TKA
(Smith et al., 2012)	1. No regression performed
(Smith et al., 2019)	6. Insufficient follow-up time
(Smith et al., 2019)	6. Insufficient follow-up time/duplicate
(Soni et al., 2014)	2. Conference abstract
(Soni et al., 2016)	2. Conference abstract
(Stickles et al., 2001)	1. No regression performed
(Stone et al., 2017)	3. Inadequate study design
(Stratford et al., 2010)	6. Insufficient follow-up time
(Street et al., 2018)	3. Inadequate study design
(Sveikata et al., 2017)	1. No regression performed
(Tabutin et al., 2005)	1. No regression performed
(Tan et al., 2014)	5. Pooled results, more knees than patients
(Tchetina et al., 2020)	1. No regression performed
(Thomazeau et al., 2016)	5. Not separate results for TKA
(Tilbury et al., 2016)	6. Insufficient data
(Tilbury et al., 2018)	2. Duplicate publication
(Toguchi et al., 2020)	3. Inadequate study design
(Tolk et al., 2021)	1. No regression reported on outcome
(Trace, 2006)	3. Inadequate study design
(Twiggs et al., 2019)	3. Inadequate aim
(Utrillas-Compaired et al., 2014)	5. Not separate results for OA
(Vaegter et al., 2017)	1. No regression reported
(van den Akker-Scheek et al., 2007)	5. Not separate results for TKA
(Van Hamersveld et al., 2018)	4. Inadequate outcome
(Van Hamersveld et al., 2018)	4. Inadequate outcome
(Van Hamersveld et al., 2018)	2. Duplicate
(van Loon et al., 2021)	6. Insufficient follow-up time
(Van Onsem et al., 2018)	4. Inadequate outcome
(Vekama et al., 2015)	5. Not separate analysis for TKA
(Vela et al., 2017)	2. Conference abstract
(Vila et al., 2020)	5. Not separate analysis for TKA
(Vina et al., 2014)	2. Conference abstract
(Vina et al., 2016)	6. Insufficient follow-up time
(Vogel et al., 2019)	7. Insufficient data about eligibility
(Wada et al., 2016)	1. No regression reported
(Walker et al., 2015)	2. Conference abstract
(Wenjun et al., 2017)	3. Wrong aim
(Widmer et al., 2013)	5. Not separate analysis for TKA
(Williams et al., 2013)	5. Not separate analysis for TKA
(Winters et al., 2014)	3. Inadequate study design
(Wohlrab et al., 2005)	1. No regression reported
(Wollmerstedt et al., 2006)	5. Not separate analysis for TKA
(Woo et al., 2006)	6. Data from article was unavailable
(Wood et al., 2021)	5. Not separate analysis for TKA
(Wright et al., 2017)	5. Not separate analysis for TKA
(Wylde et al., 2013)	1. No regression performed for the outcome
(Wylde et al., 2015)	5. Pooled results intervention & control
(Wylde et al., 2017)	2. Same sample as in prior included study
(Xu et al., 2020)	5. Not separate measure of function
(Yakobov et al., 2018)	4. Inadequate outcome
(Yap et al., 2021)	5. Not separate measure of function
(Yau et al., 2005)	5. Not separate results for OA

(Young et al., 2017)	3. Inadequate aim
(Young-Shand et al., 2020)	3. Inadequate aim
(Zeni and Snyder-Mackler, 2010)	5. Pooled results intervention & control

Abbreviations: OA; osteoarthritis, RA; rheumatoid arthrithis, TKA; total knee arthroplasty. THA; total hip arthroplasty
*Reason for exclusion correspond with the PRISMA flow diagram
**Author did not respond to e-mail or gave insufficient information about the study

No of studies	**Reason for exclusion**
90	1. No regression performed
80	2. Conference abstract, duplicate publication or letter to editor
54	3. Inadequate study design or aim
21	4. Predictor or outcome not evaluated
94	5. TKA/OA/pooled results/total score
20	6. Insufficient follow-up time
12	7. Insufficient data or age>18 years

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