

Supplementary Table 1: Search strategy for individual databases

Number	Name of the database	Search strategy	Number of articles
1	PubMed	(pelvic[Title/ Abstract] OR spinopelvic[Title/ Abstract] OR spino pelvic[Title/ Abstract] OR pelvic inclin*[Title/ Abstract] OR pelvic tilt[Title/ Abstract] OR pelvic incidence[Title/ Abstract]OR sagittal pelvic[Title/ Abstract] OR lumbar lordosis[Title/ Abstract] OR sacral slope[Title/ Abstract]) AND (knee arthroplasty OR "Arthroplasty, Replacement, Knee"[Mesh] OR knee replacement)	205
2	EMBASE	(pelvic:ti,ab,kw OR spinopelvic:ti,ab,kw OR 'spino pelvic':ti,ab,kw OR 'pelvic inclin*':ti,ab,kw OR 'pelvic tilt':ti,ab,kw OR 'pelvic inclination':ti,ab,kw OR 'sagittal pelvic':ti,ab,kw OR 'lumbar lordosis':ti,ab,kw OR 'sacral slope':ti,ab,kw) AND ('knee arthroplasty':ti,ab,kw OR 'knee replacement':ti,ab,kw)	124
3	Scopus	(TITLE-ABS-KEY (pelvic OR spinopelvic OR spino AND pelvic OR pelvic AND inclin* OR pelvic AND incidence OR pelvic AND tilt OR sagittal AND pelvic OR lumbar AND lordosis OR sacral AND slope)) AND (TITLE-ABS-KEY (knee AND arthroplasty OR knee AND replacement))	13

Supplementary Table 2 Risk of bias of the included studies using ROBINS-I

Ref.	Bias due to confounding	Bias in selection of participants into the study	Bias in classification of interventions	Bias due to deviations from intended interventions	Bias due to missing data	Bias in measurement of outcomes	Bias in selection of the reported result	Overall bias
Kim <i>et al</i> [13]	Moderate	Low	Low	No information	Low	Moderate	Low	Moderate
Kitagawa <i>et al</i> [10]	Moderate	Low	Low	No information	Low	Moderate	Low	Moderate
Batibay <i>et al</i> [8]	Moderate	Low	Low	No information	Low	Moderate	Low	Moderate
Han <i>et al</i> [12]	Moderate	Low	Low	No information	Low	Moderate	Low	Moderate
Shichman <i>et al</i> [9]	Moderate	Low	Low	No information	Low	Moderate	Low	Moderate
Puthiyapura <i>et al</i> [11]	Moderate	Low	Low	No information	Low	Moderate	Low	Moderate