

A systematic review of crosswalks for converting patient-reported outcome measure scores in hip, knee, and shoulder replacement surgery

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Supplementary file

Table S1. Search strategy and yield, by database

	Ovid MEDLINE	Embase	PsycInfo	CINAHL
1	exp Arthroplasty, Replacement, Hip/ or exp Arthroplasty, Replacement/ or exp Arthroplasty, Replacement, Shoulder/ or exp Arthroplasty, Replacement, Knee/	exp Arthroplasty, Replacement, Hip/ or exp Arthroplasty, Replacement/ or exp Arthroplasty, Replacement, Shoulder/ or exp Arthroplasty, Replacement, Knee/	(arthroplast* or replacement?).mp or exp Hips/ or exp Knee/ or shoulder.mp	(MH "Arthroplasty+") OR (MH "Arthroplasty, Replacement, Shoulder+") OR (MH "Arthroplasty, Replacement, Knee+") OR (MH "Arthroplasty, Replacement, Hip") OR (MH "Arthroplasty, Replacement+")
2	(mapping or map or mapped or crosswalk? or crosswalk? or equate or equating or agreement? or link or linking or bi?directional or convert* or "transfer to utility").mp.	(mapping or map or mapped or crosswalk? or cross-walk? or equate or equating or agreement? or link or linking or bi?directional or convert* or "transfer to utility").mp.	(mapping or map or mapped or crosswalk? or crosswalk? or equate or equating or agreement? or link or linking or bi?directional or convert* or "transfer to utility").mp.	mapping OR map OR mapped OR cross-walk* OR crosswalk* OR "transfer to utility" OR "indirect utility"
3	(PROM or HR-PRO or HRPRO or HRQL or HRQoL or QL or QoL or quality of life or life quality or patient-reported outcome measure* or pain or (health index* or health indices or health profile*) or health status or ((disability or function* or subjective or utility* or wellbeing or well being) adj2 (index* or indices or instrument? or measure? or questionnaire? or profile? or scale? or score? or status or survey?))).mp.	(PROM or HR-PRO or HRPRO or HRQL or HRQoL or QL or QoL or quality of life or life quality or patient-reported outcome measure* or pain or (health index* or health indices or health profile*) or health status or ((disability or function* or subjective or utility* or wellbeing or well being) adj2 (index* or indices or instrument? or measure? or questionnaire? or profile? or scale? or score? or status or survey?))).mp.	(PROM or HR-PRO or HRPRO or HRQL or HRQoL or QL or QoL or quality of life or life quality or patient-reported outcome measure* or pain or (health index* or health indices or health profile*) or health status or ((disability or function* or subjective or utility* or wellbeing or well being) adj2 (index* or indices or instrument? or measure? or questionnaire? or profile? or scale? or score? or status or survey?))).mp.	PROM or HR-PRO or HRPRO or HRQL or HRQoL or ql or QoL or "quality of life" or "life quality" or "patient-reported outcome measure*" or pain or "health index*" or "health indices" or "health profile*" or "health status" or ((disability or function* or subjective or utility* or wellbeing or "well being") N2 (index* or indices or instrument# or measure# or questionnaire# or profile# or scale# or score# or status or survey#))
4	1 and 2 and 3	1 and 2 and 3	1 and 2 and 3	1 and 2 and 3
5	limit 4 to yr="2000-Current"	limit 4 to yr="2000-Current"	limit 4 to yr="2000-Current"	Limiters - Published Date: 20000101-20231231
Yield	551	591	165	371

Table S2. Tools for using the available crosswalks

Study	Source PROM	Target PROM	Online tool	Crosswalk tables in published paper
Bilbao 2020	WOMAC Index	EQ-5D-5L	Syntax in R (Appendix, Table 3S). Available from: https://doi.org/10.1016/j.jval.2019.09.2755	
Clement 2022 Dakin 2013	Oxford Knee Score Oxford Knee Score	EQ-5D-3L EQ-5D-3L	Stata command and Excel spreadsheet for converting scores. Available from: https://www.herc.ox.ac.uk/downloads/downloads-supporting-material-1/mapping-analyses-to-estimate-eq-5d-utilities-and-responses-based-on-oxford-knee-score	
Fawaz 2023 Fleisher 2022	Oxford Knee Score WOMAC Index	EQ-5D-5L HOOS-JR KOOS-JR	Crosswalk tables (Appendix Tables 1-2). Available from: https://www.sciencedirect.com/science/article/pii/S0883540321008445#appsec1	
Ghomrawi 2017 Heng 2021 Heng 2022 Martin-Fernandez 2020	UCLA Activity Scale KOOS-Function HOOS-Function Oxford Hip Score Oxford Knee Score	Lower Extremity Activity Scale PROMIS-Physical function PROMIS-Physical function EQ-5D-5L		Tables 2 and 3 Tables 5 and 6
Mitchell 2013 Odum 2017	WOMAC Index Original Knee Society Score	ICECAP-O Capability Index 2011 Knee Society Score	Spreadsheet for converting scores (Supplementary file). Available from: https://journals.lww.com/clinorthop/Fulltext/2017/01000/Can_Original_Knee_Society_Scores_Be_Used_to.29.aspx	
Pinedo-Villanueva 2013 Polascik 2020	Oxford Hip Score HOOS-JR KOOS-JR	EQ-5D Oxford Hip Score Oxford Knee Score		Table 4
Putman 2021	Oxford Hip Score	HOOS-Function HOOS-JR HOOS-12		Tables 4 and 5
Soh 2022	Oxford Hip Score Oxford Knee Score	HOOS-12 KOOS-12		Tables 2 and 5
Tang 2022 Wailoo 2014	KOOS-Function WOMAC Index	PROMIS-Physical function EQ-5D	EQ-5D calculator (Additional file 1). Available from: https://hqlo.biomedcentral.com/articles/10.1186/1477-7525-12-37#Sec8	Table 3