

## Supplementary Material: Databases and search strings

### Impact of enhanced recovery pathways on safety and efficacy of hip and knee arthroplasty: A systematic review and meta-analysis

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#### Search strategy for Embase.com, 10 June 2018

/exp – EMtree keywords with explosion

:ab,ti – words in title or abstract

:ti – words in title

NEAR/x – words near to each other, x places apart

| No. | Query   | Results   |
|-----|---|-----------|
| #14 | #6 NOT #13  | 1.253     |
| #13 | #8 OR #10 OR #12  | 609       |
| #12 | #6 AND #11  | 132       |
| #11 | (meta analysis'/exp OR 'systematic review'/exp OR ((meta NEAR/3 analy*):ab,ti) OR metaanaly*':ab,ti OR review*':ti OR overview*':ti OR ((synthes*NEAR/3 (literature* OR research* OR studies OR data)):ab,ti) OR (pooled AND analys*':ab,ti) OR (((data NEAR/2 pool*):ab,ti) AND studies:ab,ti) OR medline:ab,ti OR medlars:ab,ti OR embase:ab,ti OR cinahl:ab,ti OR scisearch:ab,ti OR psychinfo:ab,ti OR psycinfo:ab,ti OR psychlit:ab,ti OR psyclit:ab,ti OR cinhal:ab,ti OR cancerlit:ab,ti OR cochrane:ab,ti OR bids:ab,ti OR pubmed:ab,ti OR ovid:ab,ti OR (((hand OR manual OR database*OR computer*) NEAR/2 search*):ab,ti) OR ((electronic NEAR/2 (database* OR 'data base' OR 'data bases')):ab,ti) OR bibliograph*':ab OR 'relevant journals':ab OR (((review* OR overview*) NEAR/10 (systematic* OR methodologic* OR quantitativ* OR research* OR literature* OR studies OR trial*OR effective*)):ab)) NOT (((retrospective* OR record* OR case* OR patient*) NEAR/2 review*):ab,ti) OR (((patient* OR review*) NEAR/2 chart*):ab,ti) OR rat:ab,ti OR rats:ab,ti OR mouse:ab,ti OR mice:ab,ti OR hamster:ab,ti OR hamsters:ab,ti OR animal:ab,ti OR animals:ab,ti OR dog:ab,ti OR dogs:ab,ti OR cat:ab,ti OR cats:ab,ti OR bovine:ab,ti OR sheep:ab,ti) NOT ('editorial'/exp OR 'erratum'/de OR 'letter'/exp) NOT (('animal'/exp OR 'nonhuman'/exp) NOT (('animal'/exp OR 'nonhuman'/exp) AND 'human'/exp)) | 992.828   |
| #10 | #6 AND #9   | 353       |
| #9  | random* OR factorial* OR crossover* OR (cross NEXT/1 over*) OR placebo* OR (doubl* AND blind*) OR (singl* AND blind*) OR assign* OR allocat*OR volunteer* OR 'crossover procedure'/exp OR 'double blind procedure'/exp OR 'randomized controlled trial'/exp OR 'single blind procedure'/exp   | 2.240.620 |
| #8  | #6 AND #7   | 256       |
| #7  | 'prospective study'/exp OR prospecti*':ab,ti  | 984.670   |
| #6  | #5 NOT #3   | 1.862     |

|    |   |         |
|----|---|---------|
| #5 | #1 AND #4   | 1,975   |
| #4 | 'day care'/exp OR 'outpatient care'/exp OR 'ambulatory care'/exp OR 'outpatient department'/exp OR 'outpatient'/exp OR 'ambulatory surgery'/exp OR 'same day':ab,ti OR 'day car*':ab,ti OR 'day cent*':ab,ti OR daycar*':ab,ti OR 'partial hospitali*':ab,ti OR ambulant:ab,ti OR ambulator*':ab,ti OR outpatient*':ab,ti OR 'out patient*':ab,ti OR (((outdoor* OR outward*) NEAR/5 patient*):ab,ti) OR polyclinic*':ab,ti OR polyclinic*':ab,ti OR surgicent*':ab,ti OR 'dispensary car*':ab,ti OR extramural*':ab,ti OR 'office visit*':ab,ti OR 'office surg*':ab,ti OR 'day surg*':ab,ti OR (('day of surg*'NEAR/5 discharg*):ab,ti) | 453,744 |
| #3 | #1 AND #2   | 951     |
| #2 | 'clinical pathway'/exp OR 'care path*':ab,ti OR 'joint car*':ab,ti OR 'rapid recover*':ab,ti OR 'enhanced recovery path*':ab,ti OR 'critical path*':ab,ti OR 'clinical path*':ab,ti OR 'care map*':ab,ti OR 'fast trac*':ab,ti OR 'multidisciplinary approach*':ab,ti OR 'controlled path*':ab,ti   | 71,986  |
| #1 | 'knee arthroplasty'/exp OR 'hip arthroplasty'/exp OR (((knee OR hip OR hips OR acetabul* OR cup) NEAR/5 (arthroplast* OR replac* OR reconstructi* OR prosth* OR alloplast* OR plasty OR plasties OR hemiarthroplast*)):ab,ti) OR hiparthroplast*':ab,ti OR acetabuloplast*':ab,ti OR 'mac bride acetabulum cup*':ab,ti OR tka:ab,ti OR tha:ab,ti  | 91,804  |

## Search strategy for PubMed, 10 June 2018

[Mesh] – Medical Subject Headings

[pt] – Publication Type, from MeSH

[tiab] – words in title or abstract

[ti] – words in title

| Search | Query   | Items found |
|--------|---|-------------|
| #11    | (#6 NOT #10)  | 839         |
| #10    | (#6 AND (#7 OR #8 OR #9))   | 678         |
| #9     | (((review*[tiab] OR search*[tiab] OR survey*[tiab] OR handsearch*[tiab] OR hand-search*[tiab]) AND (databa*[tiab] OR data-ba*[tiab] OR bibliograph*[tiab] OR electronic*[tiab] OR medline*[tiab] OR pubmed*[tiab] OR embase*[tiab] OR cochrane[tiab] OR cinahl[tiab] OR psycinfo[tiab] OR psychinfo[tiab] OR cinhal[tiab] OR "web of science"[tiab] OR "web of knowledge"[tiab] OR ebsco[tiab] OR ovid[tiab] OR mrct[tiab] OR metaregist*[tiab] OR meta-regist*[tiab] OR ((predetermined[tiab] OR pre determined[tiab]) AND criteri*[tiab]) OR apprais*[tiab] OR inclusion criteri*[tiab] OR exclusion criteri*[tiab])) OR (review[pt] AND systemat*[tiab] OR "systematic review"[tiab] OR "systematic literature"[tiab] OR "integrative review"[tiab] OR "integrative literature"[tiab] OR "evidence based review"[tiab] OR "evidence based overview"[tiab] OR "evidence based literature"[tiab] OR "evidence based survey"[tiab] OR "literature search"[tiab] OR ((systemat*[ti] OR evidence-based[ti]) AND (review*[ti] OR literature[ti] OR overview[ti] OR survey[ti])) OR "data synthesis"[tiab] OR "evidence synthesis"[tiab] OR "data extraction"[tiab] OR "data source"[tiab] OR "data sources"[tiab] OR "study selection"[tiab] OR "methodological quality"[tiab] OR "methodologic quality"[tiab] OR cochrane database syst rev[ta] OR meta-analy*[tiab] OR metaanaly*[tiab] OR metanaly*[tiab] OR meta-analysis[pt] OR meta-synthesis[tiab] OR metasynthesis[tiab] OR meta-study[tiab] OR metastudy[tiab] OR | 476,005     |

|                    |   |                         |
|--------------------|---|-------------------------|
|                    | metaethnograph*[tiab] OR meta-ethnograph*[tiab] OR "Technology Assessment, Biomedical"[Mesh] OR hta[tiab] OR health technol assess[ta] OR evid rep technol assess summ[ta] OR health technology assessment[tiab]))  |                         |
| <a href="#">#8</a> | ((randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]))  | <b><u>4.272.893</u></b> |
| <a href="#">#7</a> | ((("Prospective Studies"[Mesh] OR prospecti*[tiab]))  | <b><u>750.822</u></b>   |
| <a href="#">#6</a> | (#5 NOT #3)   | <b><u>1.517</u></b>     |
| <a href="#">#5</a> | (#1 AND #4)   | <b><u>1.610</u></b>     |
| <a href="#">#4</a> | ((("Day Care, Medical"[Mesh] OR "Ambulatory Care"[Mesh] OR "Outpatients"[Mesh] OR "Outpatient Clinics, Hospital"[Mesh] OR "Ambulatory Surgical Procedures"[Mesh] OR same day[tiab] OR day car*[tiab] OR day cent*[tiab] OR daycar*[tiab] OR partial hospitali*[tiab] OR ambulant[tiab] OR ambulator*[tiab] OR outpatient*[tiab] OR out patient*[tiab] OR ((outdoor*[tiab] OR outward*[tiab]) AND patient*[tiab]) OR polyclinic*[tiab] OR polyclinic*[tiab] OR surgicent*[tiab] OR dispensary car*[tiab] OR extramural*[tiab] OR office visit*[tiab] OR office surg*[tiab] OR day surg*[tiab] OR (day of surg*[tiab] AND discharg*[tiab])) | <b><u>295.383</u></b>   |
| <a href="#">#3</a> | (#1 AND #2)   | <b><u>789</u></b>       |
| <a href="#">#2</a> | ((("Critical Pathways"[Mesh] OR care path*[tiab] OR joint car*[tiab] OR rapid recover*[tiab] OR enhanced recovery path*[tiab] OR critical path*[tiab] OR clinical path*[tiab] OR care map*[tiab] OR fast trac*[tiab] OR multidisciplinary approach*[tiab] OR controlled path*[tiab]))   | <b><u>44.167</u></b>    |
| <a href="#">#1</a> | ((("Arthroplasty, Replacement, Knee"[Mesh] OR "Arthroplasty, Replacement, Hip"[Mesh] OR ((knee[tiab] OR hip[tiab] OR hips[tiab] OR acetabul*[tiab] OR cup[tiab]) AND (arthroplast*[tiab] OR replac*[tiab] OR reconstructi*[tiab] OR prosth*[tiab] OR alloplast*[tiab] OR plasty[tiab] OR plasties[tiab] OR hemiarthroplast*[tiab])) OR hiparthroplast*[tiab] OR acetabuloplast*[tiab] OR tka[tiab] OR tha[tiab]))   | <b><u>87.264</u></b>    |

## Search strategy for Wiley/Cochrane Library, 10 June 2018

ti,ab,kw – words in title, abstract or keyword

| ID        | Search  | Hits          |
|-----------|---|---------------|
| <b>#1</b> | ((knee or hip or hips or acetabul* or cup) and (arthroplast* or replac* or reconstructi* or prosth* or alloplast* or plasty or plasties or hemiarthroplast*)) or hiparthroplast* or acetabuloplast* or tka or tha:ti,ab,kw  | <b>12.812</b> |
| <b>#2</b> | (care n3 path*) or (joint n3 car*) or (rapid n3 recover*) or ("enhanced recovery" n3 path*) or (critical n3 path*) or (clinical n3 path*) or (care n3 map*) or (fast n3 trac*) or (multidisciplinary n3 approach*) or (controlled n3 path*):ti,ab,kw  | <b>41</b>     |
| <b>#3</b> | (same n3 day) or (day n3 car*) or (day n3 cent*) or daycar* or (partial n3 hospitali*) or ambulant or ambulator* or outpatient* or (out n3 patient*) or ((outdoor* or outward*) n3 patient*) or polyclinic* or polyclinic* or surgicent* or (dispensary n3 car*) or extramural* or (office n3 visit*) or (office n3 surg*) or (day n3 surg*) or ("day of" n3 surg*) and discharg*):ti,ab,kw | <b>42.920</b> |
| <b>#4</b> | #1 and (#2 or #3)   | <b>338</b>    |

The result of 338 references is distributed as follows:

CDSR : 2 references, Cochrane Database of Systematic Reviews

DARE : 1 reference, Database of Abstract of Reviews of Effect

CENTRAL : 324 references, Cochrane Central Register of Controlled Trials

Methods : 1 reference, Cochrane Methodology Register

EED :

10 references, NHS Economic Evaluation Database

### Search strategy for Clarivate Analytics/Web of Science, 10 June 2018

Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years

TOPIC - words in title, abstract or keyword

Nx - words near to each other, x places apart

| Set | Query   | Results        |
|-----|---|----------------|
| #5  | #4 AND #1   | <b>1.686</b>   |
| #4  | #3 OR #2  | <b>218.908</b> |
| #3  | <b>TOPIC:</b> (((“same day” OR (day n3 car*) OR (day n3 cent*) OR daycar* OR (partial n3 hospitali*) OR ambulant OR ambulator* OR outpatient* OR (out n3 patient*) OR ((outdoor* OR outward*) AND patient*) OR polyclinic* OR polyclinic* OR surgicent* OR (dispensary n3 car*) OR extramural* OR (office n3 visit*) OR (office n3 surg*) OR (day n3 surg*) OR (“day of” AND surg* AND discharg*))) | <b>218.494</b> |
| #2  | <b>TOPIC:</b> (((care n3 path*) OR (joint n3 car*) OR (rapid n3 recover*) OR (“enhanced recovery” n3 path*) OR (critical n3 path*) OR (clinical n3 path*) OR (care n3 map*) OR (fast n3 trac*) OR (multidisciplinary n3 approach*) OR (controlled n3 path*)))   | <b>463</b>     |
| #1  | <b>TOPIC:</b> (((knee OR hip OR hips OR acetabul* OR cup) AND (arthroplast* OR replac* OR reconstructi* OR prosthe* OR alloplast* OR plasty OR plasties OR hemiarthroplast*)) OR hiparthroplast* OR acetabuloplast* OR tka OR tha))   | <b>93.842</b>  |

### Search strategy for Ebsco/CINAHL, 10 June 2018

MH = Mapped Heading, keyword

TI - words in title

AB - words in abstract

| #  | Query  | Results        |
|----|--|----------------|
| S5 | S1 AND S4  | <b>758</b>     |
| S4 | S2 OR S3   | <b>100.088</b> |
| S3 | ( MH "Day Care" OR MH "Ambulatory Care" OR MH "Ambulatory Care Facilities" OR MH "Ambulatory Care Nursing" OR MH "Outpatients" OR MH "Outpatient Service" OR MH "Ambulatory Surgery" ) OR TI ( “same day” OR “day car*” OR “day cent*” OR daycar* OR “partial hospitali*” OR ambulant OR ambulator* OR outpatient* OR “out patient*” OR ((outdoor* OR outward*) AND patient*) OR polyclinic* OR polyclinic* OR surgicent* OR “dispensary car*” OR extramural* OR “office visit*” OR “office surg*” OR “day surg*” OR (“day of surg*” AND discharg* ) OR AB ( “same day” OR “day car*” OR “day cent*” OR daycar* OR “partial hospitali*” OR ambulant OR ambulator* OR outpatient* OR “out patient*” OR ((outdoor* OR outward*) AND patient*) OR polyclinic* OR polyclinic* OR surgicent* OR “dispensary car*” OR extramural* OR “office visit*” OR “office surg*” OR “day surg*” OR (“day of surg*” AND discharg* ) ) | <b>90.417</b>  |

|           |   |               |
|-----------|---|---------------|
| <b>S2</b> | (MH "Critical Path") OR TI ( "care path*" OR "joint car*" OR "rapid recover*" OR "enhanced recovery path*" OR "critical path*" OR "clinical path*" OR "care map*" OR "fast trac*" OR "multidisciplinary approach*" OR "controlled path*" ) OR AB ( "care path*" OR "joint car*" OR "rapid recover*" OR "enhanced recovery path*" OR "critical path*" OR "clinical path*" OR "care map*" OR "fast trac*" OR "multidisciplinary approach*" OR "controlled path*" )  | <b>10.322</b> |
| <b>S1</b> | ( (MH "Arthroplasty, Replacement, Knee") OR (MH "Arthroplasty, Replacement, Hip") ) OR TI ( ((knee OR hip OR hips OR acetabul* OR cup) AND (arthroplast* OR replac* OR reconstructi* OR prosth* OR alloplast* OR plasty OR plasties OR hemiarthroplast*)) OR hiparthroplast* OR acetabuloplast* OR tka OR tha ) OR AB ( ((knee OR hip OR hips OR acetabul* OR cup) AND (arthroplast* OR replac* OR reconstructi* OR prosth* OR alloplast* OR plasty OR plasties OR hemiarthroplast*)) OR hiparthroplast* OR acetabuloplast* OR tka OR tha ) | <b>18.538</b> |