

APPENDIX 3; All search strategies described in detail.

<b>Search Strategy for EMBASE, July 10, 2020 (2.556 references)</b>		
	Query	Results
#1	'hip prosthesis'/exp	43739
#2	'hip replacement'/exp	7095
#3	'hip arthroplasty'/exp	25756
#4	((hip OR hips OR acetabul* OR cup) NEAR/2 (arthroplast* OR replac* OR prosthe* OR reconstructi* OR alloplast* OR plasty OR plasties OR resurfacing* OR implant*)):ab,ti	48039
#5	'hip arthroplast*':ab,ti OR 'hip prosthesis implantation*':ab,ti OR 'hip replacement*':ab,ti OR 'total hip replacement*':ab,ti OR 'total hip arthroplast*':ab,ti OR 'hip prosthes*':ab,ti OR 'total hips prosthes*':ab,ti OR 'femoral head prosthes*':ab,ti OR 'hip resurfacing*':ab,ti OR 'resurfacing*':ab,ti OR hra:ab,ti OR tha:ab,ti OR thr:ab,ti OR 'hip extracapsular arthroplast*':ab,ti OR 'hip joint arthroplast*':ab,ti OR 'hip joint alloplast*':ab,ti OR 'hip plast*':ab,ti OR hiparthroplast*':ab,ti OR 'hip joint replacement*':ab,ti OR 'hip implant*':ab,ti OR 'hip joint implant*':ab,ti OR 'hip joint prosthes*':ab,ti	84869
#6	'femoral head prosthes*':ab,ti OR 'femur head prosthes*':ab,ti OR hiparthroplast*':ab,ti OR acetabuloplast*':ab,ti OR 'acetabulum cup*':ab,ti OR 'acetabular cup*':ab,ti OR 'acetabulofemoral joint plast*':ab,ti OR 'acetabulofemoral joint arthroplasty':ab,ti OR 'acetabulofemoral joint arthroplasties':ab,ti OR 'hip cup arthroplast*':ab,ti OR tha:ab,ti OR thr:ab,ti OR hra:ab,ti	48146
#7	#1 OR #2 OR #3 OR #4 OR #5 OR #6	105689
#8	'cobalt'/exp	49630
#9	'heavy metal'/de	37175
#10	cobalt*:ab,ti	37776
#11	#8 OR #10	67394
#12	#9 OR #11	102001
#13	#7 AND #12	2566
exp = EMtree keywords with explosion, ti = words in title, ab = words in abstract		

<b>Search strategy for Cochrane Library / Wiley, July 10, 2020 (147 references)</b>		
	Query	Results
#1	((hip OR hips OR acetabul* OR cup) AND (arthroplast* OR replac* OR prosth* OR reconstructi* OR alloplast* OR plasty OR plasties OR resurfacing* OR implant*)):ti,ab,kw (Word variations have been searched)	8108
#2	("femoral head prosth*" OR "femur head prosth*" OR "hip extracapsular arthroplasty" OR "hip extracapsular arthroplasties" OR "hip joint alloplast*" OR "hip joint arthroplast*" OR "hip joint replac*" OR "hip joint implant*" OR "hip joint prosthes*" OR "total hip replacement arthroplasty" OR "total hip replacement arthroplasties" OR hiparthroplast* OR acetabuloplast* OR "acetabulum cup*" OR "acetabular cup*" OR "acetabulofemoral joint plast*" OR "acetabulofemoral joint arthroplasty" OR "acetabulofemoral joint arthroplasties" OR "hip cup arthroplast*" OR tha OR thr OR hra):ti,ab,kw (Word variations have been searched)	2534
#3	(cobalt* OR "heavy metal*"):ti,ab,kw (Word variations have been searched)	1110
#4	#1 OR #2	8912
#5	#4 AND #3	147
All articles found where trials ti = words in title, ab = words in abstract, kw = words in keyword		

<b>Search strategy for Web Of Science / Clarivate Analytics, July 10, 2020 (2.353 references)</b>		
	Query	Results
#1	TS=(((hip OR hips OR acetabul* OR cup) AND (arthroplast* OR replac* OR prosth* OR reconstructi* OR alloplast* OR plasty OR plasties OR resurfacing* OR implant* )) OR TS=(("femoral head prosth*" OR "femur head prosth*" OR "hip extracapsular arthroplasty" OR "hip extracapsular arthroplasties" OR "hip joint alloplast*" OR "hip joint arthroplast*" OR "hip joint replac*" OR "hip joint implant*" OR "hip joint prosthes*" OR "total hip replacement arthroplasty" OR "total hip replacement arthroplasties" OR hiparthroplast* OR acetabuloplast* OR "acetabulum cup*" OR "acetabular cup*" OR "acetabulofemoral joint plast*" OR "acetabulofemoral joint arthroplasty" OR "acetabulofemoral joint arthroplasties" OR "hip cup arthroplast*" OR tha OR thr OR hra))	101465

#2	TS=(cobalt*) OR TS=(heavy metal*)	307577
#3	#2 AND #1	2353
Indexes = SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI		
Timespan=All years		
TS – TOPIC – words in title, abstract or keyword		

Search strategy for CINAHL / Ebsco Host, July 10, 2020 (795 references)		
	Query	Results
S1	(MH "Arthroplasty, Replacement, Hip")	18496
S2	(MH "Joint Prosthesis+")	10837
S3	TI ( ( hip OR hips OR acetabul* OR cup) AND (arthroplast* OR replac* OR prosth* OR reconstructi* OR alloplast* OR plasty OR plasties OR resurfacing* OR implant*) ) OR AB ( ( hip OR hips OR acetabul* OR cup) AND (arthroplast* OR replac* OR prosth* OR reconstructi* OR alloplast* OR plasty OR plasties OR resurfacing* OR implant*) ) OR TI ( “femoral head prosth*” OR “femur head prosth*” OR “hip extracapsular arthroplasty” OR “hip extracapsular arthroplasties” OR “hip joint alloplast*” OR “hip joint arthroplast*” OR “hip joint replac*” OR “hip joint implant*” OR “hip joint prosthes*” OR “total hip replacement arthroplasty” OR “total hip replacement arthroplasties” OR hiparthroplast* OR acetabuloplast* OR “acetabulum cup*” OR “acetabular cup*” OR “acetabulofemoral joint plast*” OR “acetabulofemoral joint arthroplasty” OR “acetabulofemoral joint arthroplasties” OR “hip cup arthroplast*” OR tha OR thr OR hra ) OR AB ( “femoral head prosth*” OR “femur head prosth*” OR “hip extracapsular arthroplasty” OR “hip extracapsular arthroplasties” OR “hip joint alloplast*” OR “hip joint arthroplast*” OR “hip joint replac*” OR “hip joint implant*” OR “hip joint prosthes*” OR “total hip replacement arthroplasty” OR “total hip replacement arthroplasties” OR hiparthroplast* OR acetabuloplast* OR “acetabulum cup*” OR “acetabular cup*” OR “acetabulofemoral joint plast*” OR “acetabulofemoral joint arthroplasty” OR “acetabulofemoral joint arthroplasties” OR “hip cup arthroplast*” OR tha OR thr OR hra )	24303
S4	S1 OR S2 OR S3	32947
S5	(MH "Cobalt")	909
S6	(MH "Metals, Heavy")	957

S7	TI cobalt* OR AB cobalt*	1836
S8	S5 OR S6 OR S7	2988
S9	S4 AND S8	795
MH = Mapped Heading (keyword), TI = words in title, AB = words in abstract		

<b>Search strategy for Pubmed, July 10, 2020 (1784 references)</b>		
	<b>Query</b>	<b>Results</b>
#5	“Hip Prosthesis”[Mesh]	23022
#6	“Arthroplasty, Replacement, Hip”[Mesh]	27030
#20	“Cobalt”[Mesh]	33923
#21	“Metals, Heavy”[Mesh:NoExp]	25859
#22	Cobalt*[Title/Abstract]	37834
#25	#20 OR #21 OR #22	82140
#27	“femoral head prosthe*”[tiab] OR “femur head prosthe*”[tiab] OR “hip extracapsular arthroplasty”[tiab] OR “hip extracapsular arthroplasties”[tiab] OR “hip joint alloplast*”[tiab] OR “hip joint arthroplast*”[tiab] OR “hip joint replac*”[tiab] OR “hip joint implant*”[tiab] OR “hip joint prosthes*”[tiab] OR “total hip replacement arthroplasty”[tiab] OR “total hip replacement arthroplasties”[tiab] OR hiparthroplast*[tiab] OR acetabuloplast*[tiab] OR “acetabulum cup*”[tiab] OR “acetabular cup*”[tiab] OR “acetabulofemoral joint plast*”[tiab] OR “acetabulofemoral joint arthroplasty”[tiab] OR “acetabulofemoral joint arthroplasties”[tiab] OR “hip cup arthroplast*”[tiab] OR tha[tiab] OR thr[tiab] OR hra[tiab]	40299
#28	(hip[tiab] OR hips[tiab] OR acetabul*[tiab] OR cup[tiab]) AND (arthroplast*[tiab] OR replac*[tiab] OR prosthe*[tiab] OR reconsturcti*[tiab] OR alloplast*[tiab] OR plasty[tiab] OR plasties[tiab] OR resurfacing*[tiab] OR implant*[tiab])	55095
#30	#28 OR #27	82342
#31	#5 OR #6	40105
#32	#5 OR #6 OR #30	89325
#33	#32 AND #25	1784
[Mesh] = Medical Subject Heading, [tiab] = words in title or abstract		

