

Table 1A - Final search strategy for PubMed			
#ID	Intervention	Query	Results
#1	Elderly	"Aged"[Mesh] OR elder*[Title/Abstract] OR "old age"[Title/Abstract] OR older[Title/Abstract]	3564769
#2	Acetabular fracture	("Acetabulum"[Mesh] OR acetabul*[Title/Abstract]) AND ("Fractures, Bone"[Mesh] OR fracture*[Title/Abstract])	5782
#3	Replacement	"Arthroplasty, Replacement"[Mesh] OR replace*[Title/Abstract] OR reconstruct*[Title/Abstract] OR Arthroplast*[Title/Abstract]	783259
#4	Open reduction internal fixation	("Fracture Fixation"[Mesh] OR repair[Title/Abstract] OR fixation[Title/Abstract] OR ORIF[Title/Abstract]) OR ((Anterior[Title/Abstract] OR Iliioinguinal[Title/Abstract] OR Posterior[Title/Abstract] OR Kocher[Title/Abstract] OR Langenbach[Title/Abstract] OR Langenbeck[Title/Abstract] OR Extensile[Title/Abstract] OR iliofemoral[Title/Abstract] OR Stoppa[Title/Abstract] OR intrapelvic[Title/Abstract] OR Pararectus[Title/Abstract]) AND approach*[Title/Abstract])	572998
#5	RCT	"Randomized Controlled Trial" [Publication Type] OR Randomized[Title/Abstract] OR Randomised[Title/Abstract] OR Randomization[Title/Abstract] OR Randomisation[Title/Abstract] OR RCT[Title/Abstract]	897976
#6	Cohort	("Epidemiologic Studies"[Mesh] OR epidemiologic[Title/Abstract] OR "case control"[Title/Abstract] OR "case referent"[Title/Abstract] OR "case study"[Title/Abstract] OR "case studies"[Title/Abstract] OR "case series"[Title/Abstract] OR cohort*[Title/Abstract] OR "cross sectional"[Title/Abstract] OR "follow up"[Title/Abstract] OR longitudinal[Title/Abstract] OR retrospective*[Title/Abstract] OR prospective*[Title/Abstract] OR observational[Title/Abstract] OR "controlled clinical trial"[Title/Abstract] OR "Controlled before and after"[Title/Abstract] OR "Interrupted time series"[Title/Abstract] OR Correlational[Title/Abstract] OR "ecological study"[Title/Abstract] OR "ecological studies"[Title/Abstract] OR "Descriptive study"[Title/Abstract] OR "Descriptive studies"[Title/Abstract] OR "Clinical Study" [Publication Type] OR "Clinical"[Title/Abstract] OR "Comparative Study" [Publication Type] OR "Comparative" [Title/Abstract] OR "Multicenter Study" [Publication Type] OR "Multicenter" [Title/Abstract])	8679945
#7	Final Query (RCT)	#1 AND #2 AND #3 AND #4 AND #5	10
#8	Final Query (Cohort)	#1 AND #2 AND #3 AND #4 AND #6	504

Table 1B - Final search strategy for Cochrane			
#ID	Intervention	Query	Results
#1	Elderly	MeSH descriptor: [Aged] explode all trees	212011
#2		elder*:ti,ab,kw	52514
#3		old age':ti,ab,kw	24253
#4		older:ti,ab,kw	58677
#5		#1 OR #2 OR #3 OR #4	305479
#6	Acetabular fracture	MeSH descriptor: [Acetabulum] explode all trees	179
#7		acetabul*:ti,ab,kw	866
#8		MeSH descriptor: [Fractures, Bone] explode all trees	6300
#9		fracture*:ti,ab,kw	23982
#10		(#6 OR #7) AND (#8 OR #9)	250
#11	Replacement	MeSH descriptor: [Arthroplasty, Replacement] explode all trees	4564
#12		MeSH descriptor: [Arthroplasty, Replacement, Hip] explode all trees	1933
#13		arthroplast*:ti,ab,kw	12665
#14		replace*:ti,ab,kw	38563
#15		MeSH descriptor: [Reconstructive Surgical Procedures] explode all trees	8814
#16		reconstruct*:ti,ab,kw	10732
#17		#11 OR #12 OR #13 OR #14 OR #15 OR #16	56855
#18	Open reduction internal fixation	MeSH descriptor: [Fracture Fixation] explode all trees	1788
#19		fixation:ti,ab,kw	9258
#20		repair:ti,ab,kw	14988
#21		ORIF:ti,ab,kw	280
#22		anterior:ti,ab,kw	27962
#23		ilioinguinal:ti,ab,kw	342
#24		posterior:ti,ab,kw	18629
#25		kocher:ti,ab,kw	43
#26		langenbach:ti,ab,kw	0
#27		langenbeck:ti,ab,kw	35
#28		extensile:ti,ab,kw	22
#29		iliofemoral:ti,ab,kw	166

#30		stoppa:ti,ab,kw	36
#31		intrapelvic:ti,ab,kw	42
#32		pararectus:ti,ab,kw	5
#33		approach*:ti,ab,kw	88261
#34		(#22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 OR #30 OR #31 OR #32) AND #33	4419
#35		#18 OR #19 OR #20 OR #21 OR #34	27431
#36	RCT	MeSH descriptor: [Randomized Controlled Trial] explode all trees	119
#37		MeSH descriptor: [Random Allocation] explode all trees	20628
#38		randomised controlled trial:ti,ab,kw	771905
#39		random allocation:ti,ab,kw	25810
#40		#36 OR #37 OR #38 OR #39	787494
#41	Final Query (RCT)	#5 AND #10 AND #17 AND #35 AND #40	5
#42	Cohort	MeSH descriptor: [Epidemiologic Studies] explode all trees	158062
#43		epidemiologic:ab,ti,kw	3842
#44		"case control":ab,ti,kw	9719
#45		"case referent":ab,ti,kw	8
#46		"case study":ab,ti,kw	2821
#47		"case studies":ab,ti,kw	818
#48		"case series":ab,ti,kw	3032
#49		cohort*:ab,ti,kw	60699
#50		"cross sectional":ab,ti,kw	15849
#51		"follow up":ab,ti,kw	252090
#52		longitudinal:ab,ti,kw	21067
#53		retrospective*:ab,ti,kw	34277
#54		prospective*:ab,ti,kw	235635
#55		observational:ab,ti,kw	19289
#56		controlled clinical trial:ab,ti,kw	170790
#57		"Controlled before and after":ab,ti,kw	296
#58		"Interrupted time series":ab,ti,kw	523
#59		Correlational:ab,ti,kw	1321
#60		"ecological study":ab,ti,kw	14

#61		"ecological studies":ab,ti,kw	15
#62		"Descriptive study":ab,ti,kw	680
#63		"Descriptive studies":ab,ti,kw	73
#64		MeSH descriptor: [Clinical Study] explode all trees	144
#65		clinical:ab,ti,kw	821830
#66		MeSH descriptor: [Comparative Study] explode all trees	5
#67		comparative:ab,ti,kw	95526
#68		MeSH descriptor: [Multicenter Study] explode all trees	10
#69		multicenter:ab,ti,kw	130307
#70		#42 OR #43 OR #44 OR #45 OR #46 OR #47 OR #48 OR #49 OR #50 OR #51 OR #52 OR #53 OR #54 OR #55 OR #56 OR #57 OR #58 OR #59 OR #51 OR #61 OR #62 OR #63 OR #64 OR #65 OR #66 OR #67 OR #68 OR #69	1062659
#71	Final Query (Cohort)	#5 AND #10 AND #17 AND #35 AND #70	14

Table 1C - Final search strategy for Embase			
#ID	Intervention	Query	Results
#1	Elderly	aged'/exp OR 'elder*':ab,ti,kw OR 'old age':ab,ti,kw OR 'older':ab,ti,kw	5294712
#2	Acetabular fracture	((('acetabulum':ab,ti,kw OR 'acetabular':ab,ti,kw) AND 'fracture*':ab,ti,kw) OR 'acetabulum fracture':ab,ti,kw	5968
#3	Replacement	arthroplast*':ab,ti,kw OR replace*':ab,ti,kw OR reconstruct*':ab,ti,kw	988073
#4	ORIF	(fixation:ab,ti,kw OR repair:ab,ti,kw OR ORIF:ab,ti,kw) OR ((Anterior:ab,ti,kw OR Ilioinguinal:ab,ti,kw OR Posterior:ab,ti,kw OR Kocher:ab,ti,kw OR Langenbach:ab,ti,kw OR Langenbeck:ab,ti,kw OR Extensile:ab,ti,kw OR iliofemoral:ab,ti,kw OR Stoppa:ab,ti,kw OR intrapelvic:ab,ti,kw OR Pararectus:ab,ti,kw) AND (approach:ab,ti,kw))	683486
#5	RCT	randomized controlled trial'/exp OR 'randomized controlled trial':ti,ab,kw OR 'randomized':ti,ab,kw OR 'randomised':ti,ab,kw OR 'randomization':ti,ab,kw OR 'randomisation':ti,ab,kw OR rct:ti,ab,kw	1191052
#6	Cohort	e epidemiology'/exp OR 'case control study'/exp OR 'cohort analysis'/exp OR 'cross-sectional study'/exp OR 'case study'/exp OR 'follow up'/exp OR 'longitudinal study'/exp OR 'retrospective study'/exp OR 'prospective study'/exp OR 'observational study'/exp OR 'correlational study'/exp OR epidemiologic:ti,ab,kw OR 'case control':ti,ab,kw OR 'case referent':ti,ab,kw OR 'case stud*':ti,ab,kw OR 'case series':ti,ab,kw OR cohort*':ti,ab,kw OR 'cross sectional':ti,ab,kw OR 'follow up':ti,ab,kw OR longitudinal:ti,ab,kw OR retrospective*':ti,ab,kw OR prospective*':ti,ab,kw OR observational:ti,ab,kw OR 'controlled clinical trial':ti,ab,kw OR 'Controlled before and after':ti,ab,kw OR 'Interrupted time series':ti,ab,kw OR Correlational:ti,ab,kw OR 'ecological study':ti,ab,kw OR 'ecological studies':ti,ab,kw OR 'Descriptive study':ti,ab,kw OR 'Descriptive studies':ti,ab,kw OR 'clinical study'/exp OR 'Clinical':ti,ab,kw OR 'comparative study'/exp OR 'Comparative':ti,ab,kw OR 'multicenter study'/exp OR 'Multicenter':ti,ab,kw	16754398
#7	Final Query (RCT)	#1 AND #2 AND #3 AND #4 AND #5	14
#8	Final Query (Cohort)	#1 AND #2 AND #3 AND #4 AND #6	625

Table 1D - Final search strategy for Scopus			
#ID	Intervention	Query	Results
#1	Elderly	TITLE-ABS-KEY(aged) OR TITLE-ABS-KEY(elder*) OR TITLE-ABS-KEY(old age) OR TITLE-ABS-KEY(older)	7190265
#2	Acetabular fracture	(TITLE-ABS-KEY(acetabulum) OR TITLE-ABS-KEY(acetabular)) AND TITLE-ABS-KEY(fracture*)	8716
#3	Replacement	TITLE-ABS-KEY(arthroplast*) OR TITLE-ABS-KEY(replace*) OR TITLE-ABS-KEY(reconstruct*)	2029938
#4	ORIF	TITLE-ABS-KEY(fixation) OR TITLE-ABS-KEY(repair) OR TITLE-ABS-KEY(ORIF) OR (TITLE-ABS-KEY(Anterior) OR TITLE-ABS-KEY(Ilioinguinal) OR TITLE-ABS-KEY(posterior) OR TITLE-ABS-KEY(kocher) OR TITLE-ABS-KEY(Langenbach) OR TITLE-ABS-KEY(Langenbeck) OR TITLE-ABS-KEY(Extensile) OR TITLE-ABS-KEY(iliogemoral) OR TITLE-ABS-KEY(Stoppa) OR TITLE-ABS-KEY(intrapelvic) OR TITLE-ABS-KEY(pararectus) AND TITLE-ABS-KEY(approach*))	950139
#5	RCT	TITLE-ABS-KEY(Randomized) OR TITLE-ABS-KEY(Randomised) OR TITLE-ABS-KEY(Randomization) OR TITLE-ABS-KEY(Randomisation) OR TITLE-ABS-KEY(RCT)	1233650
#6	Cohort	TITLE-ABS-KEY(epidemiologic) OR TITLE-ABS-KEY("case control") OR TITLE-ABS-KEY("case referent") OR TITLE-ABS-KEY("case study") OR TITLE-ABS-KEY("case studies") OR TITLE-ABS-KEY("case series") OR TITLE-ABS-KEY(cohort*) OR TITLE-ABS-KEY("cross sectional") OR TITLE-ABS-KEY("follow up") OR TITLE-ABS-KEY(longitudinal) OR TITLE-ABS-KEY(retrospective*) OR TITLE-ABS-KEY(prospective*) OR TITLE-ABS-KEY(observational) OR TITLE-ABS-KEY("controlled clinical trial") OR TITLE-ABS-KEY("Controlled before and after") OR TITLE-ABS-KEY("Interrupted time series") OR TITLE-ABS-KEY(Correlational) OR TITLE-ABS-KEY("ecological study") OR TITLE-ABS-KEY("ecological studies") OR TITLE-ABS-KEY("Descriptive study") OR TITLE-ABS-KEY("Descriptive studies") OR TITLE-ABS-KEY(Clinical) OR TITLE-ABS-KEY(comparative) OR TITLE-ABS-KEY(multicenter)	14316400
#7	Final Query (RCT)	#1 AND #2 AND #3 AND #4 AND #5	36
#8	Final Query (Cohort)	#1 AND #2 AND #3 AND #4 AND #6	1043