NKR 34 - Non-surgery versus Arthroscopy for non-traumatic knee pain and joint line15-Dec-2015

Figures

Figure 1 (Analysis 2.1)

Charles and Carles		n-surgery			throscopy			Std. Mean Difference	Std. Mean Difference	Risk of Bias
Study or Subgroup	Mean		Total			lotal	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl	ABCDEFG
2.1.1 VASpain/KOOS	ipain (lov	wer=bette	r) 12-6	0 monti	15					
Herrlin 2013	0	14.9	49	6	15.1	47	13.1%	-0.40 [-0.80, 0.01]		??
Yim, 2013	1.7	2.6	54	1.8	2.6	54	14.8%	-0.04 [-0.42, 0.34]		? • • • • • ? •
Katz, 2013	19.3	17.4	169	19.1	17.5	161	36.1%	0.01 [-0.20, 0.23]	+	
Gauffin 2014 Subtotal (95% CI)	25	19.0439	59 331	22	18.4487	69 331	17.0% 80.9 %	0.16 [-0.19, 0.51] - 0.04 [-0.23, 0.16]		?•••••
Heterogeneity: Tau ² = Test for overall effect	: Z = 0.39	9 (P = 0.70)	•			or) 12 moi	othe		
2.1.6 Arthroscopy vs										
Sihvonen 2013 Subtotal (95% CI)	2.9	2.6257	76 76	2.7	2.5163	70 70		0.08 [-0.25, 0.40] 0.08 [-0.25, 0.40]	→	
Heterogeneity: Not a Test for overall effect)							
Total (95% CI)			407			401	100.0%	-0.01 [-0.17, 0.14]	•	
Heterogeneity: Tau ² =	= 0.01; C	hi² = 4.76,	df = 4 ((P = 0.3	1);	5				-
Test for overall effect	: Z = 0.15	5 (P = 0.88)						-2 -1 U 1 2 Favours non-surgery Favours arthroscopy	
Test for subgroup dif	ferences	: Chi ² = 0.	36, df=	1 (P =	0.55), I ² = 0	1%			ravours non-surgery ravours antinoscopy	
Risk of bias legend										
(A) Random sequen	ce gener	ation (sele	ection b	ias)						
(B) Allocation concea	alment (s	election h	ias)							

(B) Allocation concealment (selection bias)

(C) Blinding of participants and personnel (performance bias)

(D) Blinding of outcome assessment (detection bias) (E) Incomplete outcome data (attrition bias) (F) Selective reporting (reporting bias)

(G) Other bias

Forest plot of comparison: 2 Non-sugery vs. Arthroscopy, outcome: 2.1 Pain.

Figure 2 (Analysis 2.2)

	no	on-surgery	/	ar	throscopy	/		Std. Mean Difference	Std. Mean Difference	Risk of Bias
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl	ABCDEFG
2.2.4 WOMACfunction	on/KOOS	adl (lower	=bette	r) 12-60) months					
Herrlin 2013	2	15.2	49	2	13.2	47	17.3%	0.00 [-0.40, 0.40]		?? • • • • •
Katz, 2013	14.5	16.4625	169	13.7	16.0623	161	59.5%	0.05 [-0.17, 0.26]	— — —	
Gauffin 2014 Subtotal (95% CI)	17	19.3553	60 278	14	16.7756	70 278		0.17 [-0.18, 0.51] 0.07 [-0.10, 0.23]	•	?
Heterogeneity: Tau ^z : Test for overall effect				P = 0.8	0); I² = 0%					
Total (95% CI)			278			278	100.0%	0.07 [-0.10, 0.23]	-	
Heterogeneity: Tau ² :	= 0.00; C	hi² = 0.45,	df = 2 (P = 0.81	0); I ² = 0%					_
Test for overall effect	z = 0.80) (P = 0.43) `						-1 -0.5 0 0.5 1 Favours non-surgery Favours arthroscopy	
Test for subgroup dif	fferences	: Not appl	icable						ravouis non-surgery ravouis antinoscopy	
<u>Risk of bias legend</u>										
(A) Random sequen	ce genei	ration (sel	ection b	ias)						
(B) Allocation concea	alment (s	election b	ias)							
(C) Blinding of partic	ipants ar	nd personr	nel (per	forman	ce bias)					

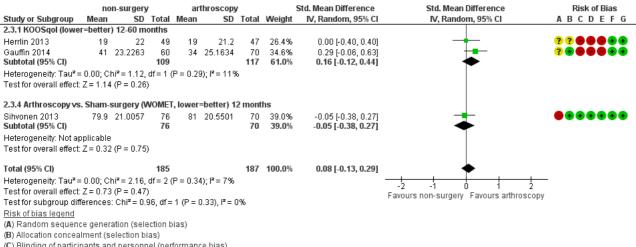
(D) Blinding of outcome assessment (detection bias)

(E) Incomplete outcome data (attrition bias)
(F) Selective reporting (reporting bias)
(G) Other bias

Forest plot of comparison: 2 Non-sugery vs. Arthroscopy, outcome: 2.2 Function.

Figure 3 (Analysis 2.3)

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(C) Blinding of participants and personnel (performance bias)

(D) Blinding of outcome assessment (detection bias)

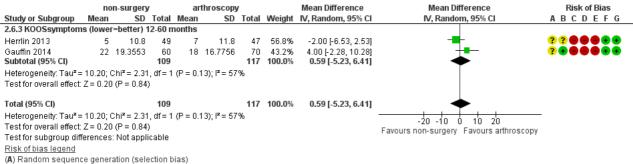
(E) Incomplete outcome data (attrition bias)

(F) Selective reporting (reporting bias)

(G) Other bias

Forest plot of comparison: 2 Non-sugery vs. Arthroscopy, outcome: 2.3 Health related Quality of Life.

Figure 4 (Analysis 2.6)



(B) Allocation concealment (selection bias)

(C) Blinding of participants and personnel (performance bias)

(D) Blinding of outcome assessment (detection bias)

(E) Incomplete outcome data (attrition bias)

(F) Selective reporting (reporting bias)

(G) Other bias

Forest plot of comparison: 2 Non-sugery vs. Arthroscopy, outcome: 2.6 Symptoms.

Figure 5 (Analysis 2.8)

	non-surgery	y arthros	сору		Risk Ratio	Risk Ratio	Risk of Bias
Study or Subgroup	Events To	tal Events	Total We	ight M-H	l, Random, 95% Cl	M-H, Random, 95% Cl	ABCDEFO
2.8.1 Arthroscopy vs.	. sham-surge	ry (Global Im	pression of	Change; i	mprovement) 12 months		
Sihvonen 2013 Subtotal (95% CI)		76 62 76		1.0%).0 %	0.94 [0.82, 1.07] 0.94 [0.82, 1.07]		
Total events Heterogeneity: Not ap Test for overall effect:		62 0.33)					
Total (95% CI)		76	70 10	0.0%	0.94 [0.82, 1.07]	-	
Total events Heterogeneity: Not ap Test for overall effect: Test for subgroup diff <u>Risk of bias legend</u> (A) Random sequend (B) Allocation conceal (C) Blinding of particip (D) Blinding of outcon	Z = 0.98 (P = 1 erences: Not a generation (ment (selection) pants and pers	applicable (selection bia on bias) sonnel (perfo	rmance bia	5)		0.7 0.85 1 1.2 1.5 Favours non-surgery Favours arthroscopy	

(E) Incomplete outcome data (attrition bias)

(F) Selective reporting (reporting bias)

(G) Other bias

Forest plot of comparison: 2 Non-sugery vs. Arthroscopy, outcome: 2.8 Symptoms.

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Figure 6 (Analysis 2.9)

0		·						
	non-surg		arthroso			Risk Ratio	Risk Ratio	Risk of Bias
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl	ABCDEFG
2.9.1 SAEs (cardiova	ascular, par	esthes	ia, additi	onal su	rgery) 12	2-38 months		
Biedert 2000	1	12	4	28	21.7%	0.58 [0.07, 4.69]		••••
Katz, 2013	2	177	3	174	29.8%	0.66 [0.11, 3.87]		
Subtotal (95% CI)		189		202	51.5%	0.62 [0.16, 2.41]		
Total events	3		7					
Heterogeneity: Tau ² :				= 0.93);	I²=0%			
Test for overall effect	: Z = 0.68 (P	= 0.49)					
2.9.5 Arthroscopy vs	s. sham-sur	gery (ii	nfection,	additio	nal surge	ery) 12 months		
Sihvonen 2013	5	76	3	70	48.5%	1.54 [0.38, 6.19]		
Subtotal (95% CI)		76		70	48.5%	1.54 [0.38, 6.19]		
Total events	5		3					
Heterogeneity: Not a	pplicable							
Test for overall effect	: Z = 0.60 (P	= 0.55)					
Total (95% CI)		265		272	100.0%	0.97 [0.37, 2.55]	+	
Total events	8		10					
Heterogeneity: Tau ² :	= 0.00; Chi ^z :	= 0.83,	df = 2 (P	= 0.66)	l² = 0%			
Test for overall effect			·				Favours non-surgery Favours arthroscopy	
Test for subgroup dif	ferences: Cl	hi² = 0.	83, df = 1	(P = 0.3	36), I² = 0	%	·,	
<u>Risk of bias legend</u>								
(A) Random sequen	-			s)				
(B) Allocation concea			,					
(C) Blinding of partici					bias)			
(D) Blinding of outco				oias)				
(E) Incomplete outco			ias)					
(F) Selective reportin	g (reporting	bias)						
(G) Other bias								

Forest plot of comparison: 2 Non-sugery vs. Arthroscopy, outcome: 2.9 Serious Adverse Events.