

Supplementary Table 1: Description of localisations of OA in selected studies

Studies (1st author)	Knee	Hip	Hand	Spine	Generalized
Davies-Tuck[1]	X				
Ray[2]	X		X	X	
Stürmer[3]	X	X			X
Inoue[4]	X				
Yoshimura[5]	X				
Lanas[6]	X	X	X	X	
Reeuwijk[7]	X	X			
Siviero[8]	X	X	X		
Engstrom[9]	X	X			
Dahaghin[10]			X		
Philbin[11]	X	X			
Hart[12]	X				
Denko[13]				X	X
Horn[14]	X				
Bagge[15]	X		X		
Cimmino (1990)[16]	X	X	X	X	
Ladjimi[17]				X	X
Lindberg[18]		X			
Typpo[19]		X			
Dequeker[20]		X			
Schett [21]	X	X			
Navarro[22]	X				
Orellana[23]			X		
Anderson[24]	X				
Sowers[25]	X				
Silveri[26]	X				X
Jamsen[27]	X	X			
Adams[28]	X				
Nieves-Plaza[29]	X		X		
Haugen[30]			X		
Perruccio[31]	X	X			
Baker[32]	X				
Peniston[33]	X				
Wang Y. [34]	X		X	X	
Shin[35]	X				

Cimmino (2005)[36]	X	X	X		X
Magnusson[37]			X		
Conaghan[38]	X				
Zulling[39]	X	X			
Bija[40]	X				
Wang S. [41]	X	X	X		

For other studies, localisation was not detailed

Supplementary table 2 : Description of studies for OA prevalence in DM population (2A) and for DM prevalence in OA population (2B)

A/ Frequency of OA in DM patients

Authors	Year of publication	Nb OA pts	Total nb of DM pts
Ray (knee)	2011	27	100
Sarkar	2008	19	80
Miksch	2009	797	1399
Schett (transversal study)	2012	11	65
Inoue	2011	13	35
Puenpatom	2009	299	1054
Dahaghin	2007	86	265
Typpo	1985	25	55
Navarro	2012	35	81
Orellana	2012	13	59
Siviero	2009	32	224
Engstrom (Knee)	2009	26	834
Engstrom (Hip)	2009	16	833
Frey (Men)	1996	10	69
Frey (Women)	1996	32	73
Haugen (Rx OA)	2013	49	87
Haugen (Stp OA)	2013	14	52
Ladjimi	1985	20	34
Nieves-Plaza	2013	49	100
Shin	2014	134	299

Total Nb OA pts	Total nb of DM pts	Prevalence (%)	95%IC
1707	5788	29.5	1.2

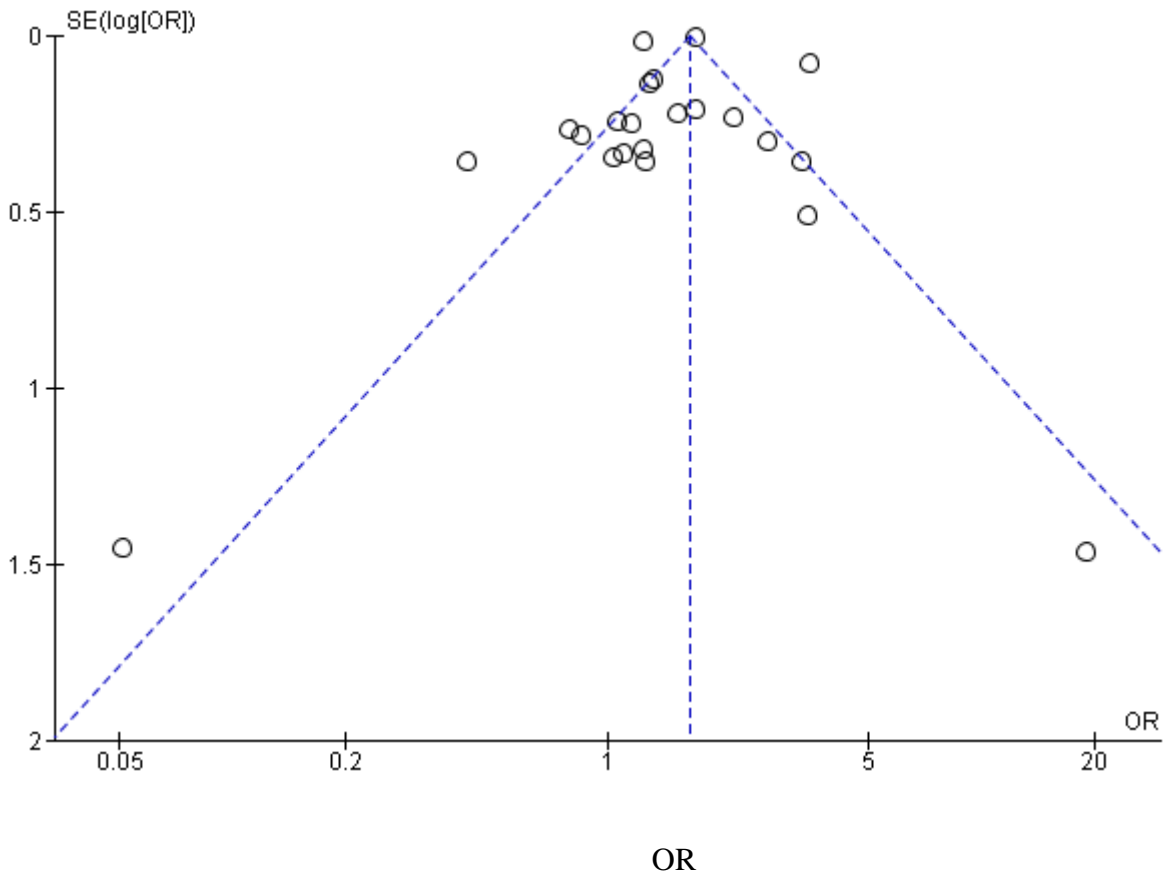
B/ Frequency of DM in OA patients

Authors	Year of publication	Nb DM pts	Total nb of OA pts
Stürmer	2001	74	809
Lanas	2010	550	3293
Reeuwijk	2010	28	288
Adams	2013	7368	39031
Shirinsky	2013	151	1390
Perruccio (Knee)	2013	76	540
Perruccio (Hip)	2013	190	443
Schett (transversal study)	2012	11	60
Inoue	2011	13	251
Puenpatom	2009	299	975
Dahaghin	2007	86	986
Typpo	1985	25	254
Navarro	2012	35	184
Orellana	2012	13	70
Jamsen	2012	6365	96754
Backer	2013	9	62
Peniston	2012	100	947
Siviero	2009	32	177
Engstrom (Knee)	2009	26	89
Engstrom (Hip)	2009	16	120
Frey (Men)	1996	10	123
Frey (Women)	1996	32	242
Haugen (Rx OA)	2013	49	540
Haugen (Stp OA)	2013	14	186
Philbin	1996	13	46
Cimmino	1990	56	1026
Lindberg	1985	0	279
Rahman	2013	4694	40817
Wang	2013	68493	428084
Cimmino	2005	3591	23939
Magnusson	2014	46	530
Conaghan	2014	213	1187
Zullig	2014	114	300
Bija	2014	13	148
Shin	2014	134	919

Total Nb DM pts	Total nb of OA pts	Prevalence (%)	95%IC
92939	645089	14,4	0,1

Nb: Number
 DM: diabetes mellitus
 OA: Osteoarthritis
 pt: patients

Supplementary Figure 1: Funnel Plot showing potential for publication bias.



Funnel plot shows the relation between association size and sample size. Study size is plotted on the vertical axis and OR is plotted on the horizontal axis.

OR: odds ratio

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