

**Osteoarthritis-patterns, cardio-metabolic risk factors and risk of all-cause mortality: 20 years follow-up in patients after hip or knee replacement.**

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**Supplementary Table S1: Associations with pattern of osteoarthritis (OA)**

	Bilateral OA (vs. unilateral)			Generalized OA (vs. not generalized)			Secondary OA (vs. primary)		
	aOR	95% CI	p-value	aOR	95% CI	p-value	aOR	95% CI	p-value
<b>Model A<sup>&amp;</sup></b>									
Age (years; per SD)	1.84	(1.53-2.21)	<.0001	3.07	(2.32-4.07)	<.0001	0.58	(0.49-0.67)	<.0001
Sex (female vs. male )	1.01	(0.66-1.55)	0.96	1.91	(1.25-2.92)	0.0029	0.84	(0.62-1.15)	0.28
Smoking (former vs. non-smoker)	0.96	(0.60-1.55)	0.88	0.53	(0.34-0.82)	0.0045	1.24	(0.89-1.74)	0.21
Smoking (current vs. non-smoker)	1.11	(0.60-2.06)	0.73	0.53	(0.25-1.13)	0.099	1.12	(0.70-1.80)	0.64
Localization (hip vs. knee)	1.04	(0.66-1.64)	0.86	0.71	(0.48-1.04)	0.077	0.98	(0.72-1.35)	0.92
BMI (kg/m <sup>2</sup> ; per SD)	1.17	(0.94-1.46)	0.16	1.08	(0.89-1.30)	0.44	0.86	(0.73-1.00)	0.051
BMI (25-30 vs <25)	1.11	(0.67-1.82)	0.69	1.16	(0.70-1.93)	0.56	0.77	(0.53-1.13)	0.18
BMI (30-35 vs. <25)	1.51	(0.81-2.80)	0.19	0.99	(0.57-1.73)	0.99	0.81	(0.52-1.25)	0.34
BMI (>35 vs. <25)	2.69	(0.77-9.35)	0.12	1.49	(0.68-3.27)	0.32	0.50	(0.24-1.02)	0.055
History of overweight/obesity (yes vs. no)	1.56	(1.02-2.37)	0.038	1.34	(0.91-1.98)	0.14	0.73	(0.54-0.99)	0.042
Hypercholesterolemia (yes vs. no)	0.91	(0.57-1.46)	0.70	1.65	(1.10-2.47)	0.016	0.78	(0.55-1.10)	0.15

Cholesterol (mmol/l; per SD)	0.87	(0.70-1.09)	0.21	1.33	(1.08-1.64)	0.0066	0.83	(0.69-1.01)	0.065
Uric acid (mmol/l; per SD)	0.91	(0.73-1.14)	0.41	1.18	(0.96-1.46)	0.12	0.97	(0.82-1.15)	0.73
hs-CRP (log mg/l; per SD)	1.03	(0.84-1.27)	0.77	1.05	(0.86-1.29)	0.60	0.99	(0.84-1.15)	0.86
Diabetes mellitus type 2 (yes vs. no)	2.32	(0.81-6.65)	0.12	1.11	(0.60-2.06)	0.74	0.63	(0.36-1.12)	0.12
Gout (yes vs. no)	1.60	(0.78-3.29)	0.20	1.71	(1.01-2.89)	0.045	0.76	(0.48-1.20)	0.24
Hypertension (yes vs. no)	1.45	(0.93-2.25)	0.098	1.48	(1.00-2.18)	0.047	0.84	(0.61-1.14)	0.25
Cardiac infarction (yes vs. no)	3.91	(0.52-29.2)	0.18	0.77	(0.32-1.83)	0.55	0.55	(0.23-1.28)	0.17
Cardiac insufficiency (yes vs. no)	1.27	(0.66-2.52)	0.50	1.67	(1.08-2.60)	0.023	0.79	(0.52-1.22)	0.29

**Model B\***

Age (years; per SD)	<b>1.76</b>	<b>(1.40-2.21)</b>	<b>&lt;.0001</b>	<b>2.67</b>	<b>(1.95-3.65)</b>	<b>&lt;.0001</b>	<b>0.60</b>	<b>(0.50-0.73)</b>	<b>&lt;.0001</b>
Sex (female vs. male)	0.99	(0.59-1.67)	0.98	1.49	(0.88-2.52)	0.14	0.89	(0.61-1.31)	0.56
Smoking (former vs. non-smoker)	1.00	(0.59-1.70)	0.99	<b>0.60</b>	<b>(0.36-0.99)</b>	<b>0.047</b>	1.23	(0.84-1.79)	0.29
Smoking (current vs. non-smoker)	1.18	(0.61-2.29)	0.61	0.66	(0.30-1.46)	0.30	1.08	(0.65-1.80)	0.76
Localization (hip vs. knee)	1.16	(0.72-1.88)	0.53	0.87	(0.57-1.32)	0.50	0.86	(0.61-1.21)	0.38

History of overweight/obesity (yes vs. no)	<b>1.53</b>	<b>(0.98-2.40)</b>	<b>0.062</b>	1.02	(0.66-1.57)	0.93	0.78	(0.56-1.08)	0.13
Cholesterol (mmol/l; per SD)	0.87	(0.69-1.09)	0.23	<b>1.27+</b>	<b>(1.02-1.57)</b>	<b>0.029</b>	<b>0.84</b>	<b>(0.56-1.08)</b>	<b>0.087</b>
Uric acid (mmol/l; per SD)	0.84	(0.64-1.09)	0.18	1.19	(0.94-1.52)	0.15	1.00	(0.82-1.22)	0.98
hs-CRP (log mg/l; per SD)	0.98	(0.79-1.22)	0.85	1.03	(0.83-1.28)	0.81	1.03	(0.87-1.21)	0.76
Diabetes mellitus type 2 (yes vs. no)	2.01	(0.69-5.90)	0.20	0.97	(0.49-1.91)	0.93	0.64	(0.35-1.15)	0.14
Gout (yes vs. no)	1.75	(0.81-3.78)	0.15	1.47	(0.82-2.65)	0.20	0.78	(0.48-1.28)	0.34
Hypertension (yes vs. no)	1.39	(0.87-2.22)	0.17	1.24	(0.81-1.89)	0.32	0.96	(0.69-1.33)	0.79
Cardiac infarction (yes vs. no)	3.33	(0.44-25.3)	0.25	0.83	(0.33-2.10)	0.70	0.54	(0.23-1.31)	0.17
Cardiac insufficiency (yes vs. no)	1.05	(0.52-2.16)	0.89	1.38	(0.85-2.24)	0.20	0.93	(0.59-1.46)	0.74

aOR adjusted Odds Ratios; CI confidence intervals; SD standard deviation for age 8.75 years, for BMI 4.28 kg/m<sup>2</sup>, for cholesterol 1.09 mmol/l, for uric acid 84.24 mmol/l, for CRP 1.06 log mg/l

**& Model A** shows age adjusted odds ratios with 95% confidence intervals. Italic marked associations revealed p-values below 0.10.

\* **Model B** shows completely and mutually adjusted odds ratios with 95% confidence intervals. Not included in Model B were variables regarding BMI and hypercholesterolemia due to high overlap with other variables. Bold marked associations revealed p-values below 0.10.