

Supplementary Table 1. Mortality counts and rates by cause of death

Cause of death (level 1)	Cause of death (level 2)	Total	Normal	Asymptomatic ROA	Knee pain	Symptomatic ROA	p value
All-cause		1,128 (1.07)	496 (0.87)	321 (1.32)	97 (1.08)	214 (1.48)	< 0.0001
Cardiovascular diseases	All cardiovascular diseases (I00-I99)	253 (0.24)	96 (0.17)	82 (0.34)	15 (0.17)	60 (0.41)	
	Hypertensive diseases (I10-I13)	29 (0.03)	- (0.01)	15 (0.06)	- (0.00)	- (0.06)	
	Ischemic heart diseases (I20-I25)	76 (0.07)	32 (0.06)	25 (0.10)	- (0.04)	15 (0.10)	
	Other heart diseases (I26-I51)	56 (0.05)	20 (0.03)	19 (0.08)	- (0.04)	13 (0.09)	
	Cerebrovascular diseases (I60-I69)	84 (0.08)	34 (0.06)	22 (0.09)	- (0.08)	21 (0.15)	
	Other cardiovascular diseases (I71-I99)	- (0.01)	- (0.01)	- (0.00)	- (0.00)	- (0.01)	
Malignant neoplasm (C00-C97)		399 (0.38)	198 (0.35)	109 (0.45)	32 (0.36)	60 (0.41)	0.1643
Causes other than cardiovascular disease or malignant neoplasm		470 (0.45)	200 (0.35)	128 (0.53)	49 (0.55)	93 (0.64)	

Values in parentheses show mortality rate per 1,000 person-years.

ROA, radiographic knee osteoarthritis.

The counts of cause-specific death do not add up to the counts of death from all-cause because data in categories with less than ten observations were not released to researchers and thus are unknown.