

Supplementary

Table S1 Baseline data of included participants by sex

Parameter	Male participants (n=56)	Female participants (n=181)
Age (years)	66.5±6.9	66.0±7.8
BMI (kg/m ²)	27.8±5.2	28.2±4.6
Index knee		
Right	26 (46.4)	108 (59.7)
Left	30 (53.6)	73 (40.3)
Kellgren-Lawrence grade		
Grade 0	10 (17.9)	35 (19.6)
Grade 1	20 (35.7)	46 (25.7)
Grade 2	7 (12.5)	44 (24.6)
Grade 3	15 (26.8)	50 (27.9)
Grade 4	4 (7.1)	4 (2.2)
Center		
Utrecht	38 (67.9)	90 (49.7)
Leiden	10 (17.9)	33 (18.2)
A Coruna	2 (3.6)	30 (16.6)
Oslo	6 (10.7)	16 (8.8)
Paris	0 (0.0)	12 (6.6)
Most affected compartment		
Medial	49 (87.5)	152 (84.0)
Lateral	7 (12.5)	29 (16.0)

Data are expressed as mean ± SD or n (%).

Table S2 Baseline statistics for progressors and non-progressors

Parameter	Progressors		Non-progressors		P value
	Total No.	Baseline	Total No.	Baseline	
Predefined progression (minimum JSW decrease $\geq 0.3\text{mm/y}$)					
KIDA minimum JSW	40	3.1 \pm 1.0	181	2.5 \pm 1.2	0.003
TF JSW and cartilage thickness measures (change \geq SDC or 1 full MOAKS score)					
KIDA minimum JSW	51	3.0 \pm 1.1	170	2.4 \pm 1.2	0.002
KIDA mean JSW	16	4.1 \pm 1.7	205	4.1 \pm 1.2	0.927
MRI quantitative cartilage thickness	86	2.7 \pm 0.8	140	3.0 \pm 0.6	0.022
MOAKS % area cartilage loss	14	5.0 (6.0)	173	4.0 (7.0)	0.531
MOAKS % full thickness loss	31	0.0 (3.0)	156	0.0 (2.0)	0.641
TF subchondral bone measures (change \geq SDC or 1 full MOAKS score)					
KIDA bone density	85	29.5 \pm 5.5	136	33.2 \pm 5.2	<0.001
MOAKS BML number	28	1.0 (3.0)	203	0.0 (2.0)	0.204
MOAKS BML size	25	1.0 (4.0)	175	0.0 (1.0)	0.032
TF osteophyte measures (change \geq SDC or 1 full MOAKS score)					
KIDA osteophyte size	78	7.9 \pm 8.0	143	3.6 \pm 4.8	<0.001
MOAKS osteophyte size	30	3.0 (2.3)	199	1.0 (3.0)	<0.001
PF scores (change ≥ 1 full MOAKS score)					
MOAKS % area cartilage loss	27	4.0 (4.0)	180	4.0 (4.0)	0.310
MOAKS % full thickness loss	38	1.0 (3.3)	169	1.0 (3.0)	0.254
MOAKS BML number	32	1.0 (2.0)	199	1.0 (2.0)	0.124
MOAKS BML size	21	1.0 (1.0)	158	0.0 (2.0)	0.011
MOAKS osteophyte size	14	5.0 (5.0)	216	1.0 (3.0)	<0.001

P values were calculated with independent t-tests for continuous parameters and chi square tests for categorical parameters (MOAKS). Mean \pm standard deviation is shown for continuous parameters; n (%) is shown for categorical parameters.

Table S3 Agreement of being a progression for different cartilage-related parameters

	KIDA minimum JSW	KIDA mean JSW	MRI cartilage thickness	MOAKS % area cartilage loss	MOAKS % full thickness loss
KIDA minimum JSW	x				
KIDA mean JSW	0.178	x			
MRI cartilage thickness	0.101	0.123	x		
MOAKS % area cartilage loss	0.022	0.011	0.115	x	
MOAKS % full thickness loss	0.060	0.060	0.081	0.182	x

Cohen's κ values of agreement are shown.

Table S4 Agreement of being a progression for different subchondral bone parameters

	KIDA bone density	MOAKS BML number	MOAKS BML size
KIDA bone density	x		
MOAKS BML number	-0.050	x	
MOAKS BML size	-0.016	0.592	x

Cohen's κ values of agreement are shown.

Table S5 Agreement of being a progression for different osteophyte parameters

	KIDA osteophyte size	MOAKS osteophyte size
KIDA osteophyte size	x	
MOAKS osteophyte size	0.219	x

Cohen's κ values of agreement are shown.