



Supplementary Figure S1. Researchers' division of labor for the survey community.

Supplementary Table S1. Logistic regression analysis of KOA related factors

Related factors	Uncorrected		Corrected	
	OR	95% CI	OR	95% CI
Gender (Female vs. Male)	1.485	1.420–1.552	1.449	1.363–1.541
Age, years	1.126	1.123–1.128	1.125	1.122–1.128
BMI (kg/m ²)	1.158	1.151–1.165	1.154	1.148–1.160
Living Environment (High floor and no elevator vs. Lower floor or elevator)	2.478	2.369–2.592	2.470	2.323–2.627
History of knee injuries (Yes vs. No)	1.690	1.615–1.769	1.670	1.568–1.780
Family history of KOA (Yes vs. No)	1.155	1.104–1.207	1.158	1.089–1.231
Osteoporosis (Yes vs. No)	2.536	2.411–2.667	2.465	2.299–2.643
Smoking history (Yes vs. No)	1.032	0.987–1.080	1.060	0.995–1.129
Drinking history (Yes vs. No)	1.190	1.139–1.244	1.194	1.123–1.269
Education				
≤ Elementary school				
Junior high school	0.666	0.630–0.703	0.674	0.625–0.728
Senior high school	0.485	0.453–0.519	0.496	0.451–0.544
≥ College/university	0.472	0.440–0.506	0.478	0.434–0.526
Occupation (Physical worker vs. Non-physical worker)	2.137	2.040–2.238	2.167	2.035–2.308

Note. KOA, Knee osteoarthritis; BMI, Body Mass Index.

Supplementary Table S2. General survey results of different stages of KOA

Variables	CMS III		CMS II		CMS I		P
	n = 991	Percent (%)	n = 3,738	Percent (%)	n = 6,393	Percent (%)	
Gender							
Male	293	29.57	1,392	37.24	2,846	44.52	< 0.001
Female	698	70.43	2,346	62.76	3,547	55.48	
Age, years (mean ± SE)	74.51 ± 18.51		73.64 ± 19.70		67.16 ± 20.46		< 0.001
40–49	42	4.24	274	7.33	438	6.85	
50–59	194	19.58	346	9.26	678	10.61	
60–69	254	25.63	645	17.26	1,929	30.17	< 0.001
70–79	314	31.68	975	26.08	1,728	27.03	
≥ 80	187	18.87	1,498	40.07	1,620	25.34	
BMI (kg/m ²) (mean ± SE)	25.51 ± 5.15		24.61 ± 6.25		23.84 ± 5.82		< 0.001
< 18.5	86	8.68	101	2.70	640	10.01	
18.5–23.9	159	16.04	984	26.33	3,073	48.07	
24–27	411	41.47	1,989	53.21	2,162	33.82	< 0.001
> 28	335	33.10	664	17.76	518	8.10	
VAS	8.23 ± 1.35		5.75 ± 1.42		2.42 ± 1.56		
K-L scale	991		3,487		5,827		
0	0	0.00	28	0.75	146	2.28	
1	33	3.33	216	5.78	1,327	20.76	
2	152	15.34	1,759	47.06	3,516	55.00	< 0.001
3	456	46.01	1,216	32.53	213	3.33	
4	350	35.32	268	7.17	625	9.78	
None x-ray	0		251		566		

Note. KOA, Knee osteoarthritis; CMS, Chinese Medicine staging; BMI, Body Mass Index.

Supplementary Table S3. KOA in different stages of treatment options

Number of treatments	CMS III		CMS II		CMS I		P
	n = 991	Percent (%)	n = 3,738	Percent (%)	n = 6,393	Percent (%)	
1	72	7.27	464	12.41	1374	21.49	< 0.001
2–3	425	42.89	1959	52.41	4162	65.1	
4–5	448	45.21	1170	31.3	857	13.41	
> 5	46	4.63	145	3.88	0	0	

Note. KOA, Knee osteoarthritis; CMS, Chinese Medicine staging.