

Online Supplementary Table 1: Demographic/clinical variables and self-reported symptoms in patients with hand OA and controls.

	Hand OA	Controls
	(n=128)	(n=70)
Family history of OA, n (%)*	90 (70.9)	23 (32.9)
Family history of bony swelling, n (%)*	65 (51.6)	18 (25.7)
Psoriasis, n (%)*	7 (5.6)	8 (11.8)
Duration of morning stiffness:		
• Finger joints, median (IQR) minutes	8 (0-30)	25 (2-60)
• Thumb base joints, median (IQR) minutes	0 (0-10)	0 (0-15)
Number of painful joints on most days the previous 6 weeks:		
• DIP joints, median (IQR)	1 (0-4)	0 (0-1)
• PIP joints, median (IQR)	1 (0-4)	1 (0-5)
• MCP joints, median (IQR)	0 (0-2)	1 (0-4)
• Thumb base joints, median (IQR)	0 (0-2)	0 (0-1)
Hand numbness, n (%)*	48 (37.8)	35 (50.7)
Painful joints on most days the previous 6 weeks:		
• Elbow(s), n (%)	20 (15.6)	22 (31.4)
• Wrist(s), n (%)	33 (25.8)	38 (54.3)
• Toes, n (%)	36 (28.1)	30 (42.9)

OA=osteoarthritis, DIP=distal interphalangeal, PIP=proximal interphalangeal, MCP=metacarpophalangeal. * Missing information about family history of OA (n=1), family history of bony swelling (n=2), psoriasis (n=3), numbness (n=1) in the hand OA group. Missing information about psoriasis (n=2), numbness (n=1) in the control group

Online Supplementary Table 2: Number of patients (hand OA vs. controls) with clinical examination features in the hand and wrist.

	Hand OA (n=128)	Controls (n=70)
Any bony enlargement of hand joints:		
• DIP joint(s), n (%)	99 (77.3)	33 (47.1)
• PIP joint(s), n (%)	81 (63.3)	28 (40.0)
• MCP joint(s), n (%)	26 (20.3)	13 (18.6)
• Thumb base joint(s), n (%)	39 (30.5)	10 (14.3)
Any pain on palpation of hand joints:		
• DIP joint(s), n (%)	81 (63.3)	28 (40.0)
• PIP joint(s), n (%)	76 (59.4)	37 (52.9)
• MCP joint(s), n (%)	44 (34.4)	39 (55.7)
• Thumb base joint(s), n (%)	60 (46.9)	21 (30.0)
Any soft tissue swelling of hand joints:		
• DIP joint(s), n (%)	28 (21.9)	8 (11.4)
• PIP joint(s), n (%)	50 (39.1)	22 (31.4)
• MCP joint(s), n (%)	6 (4.7)	25 (35.7)
• Thumb base joint(s), n (%)	5 (3.9)	4 (5.7)
Any malalignment of hand joints:		
• DIP joint(s), n (%)	52 (40.6)	4 (5.7)
• PIP joint(s), n (%)	24 (18.8)	4 (5.7)
• Thumb base joint(s), n (%)	15 (11.7)	1 (1.4)
Any pain on palpation in wrist(s), n (%)	23 (18.0)	24 (34.3)

OA=osteoarthritis, DIP=distal interphalangeal, PIP=proximal interphalangeal, MCP=metacarpophalangeal.

Online Supplementary Table 3: Radiographic and laboratory features in patients with hand OA and controls.

	Hand OA (n=128)*	Controls (n=70)**
Number of joints with radiographic osteophytes:		
• DIP joints, median (IQR)	5 (2-7)	0 (0-2)
• PIP joints, median (IQR)	4 (1-7)	0 (0-2)
• MCP joints, median (IQR)	0 (0-1)	0 (0-0)
• CMC1 joints, median (IQR)	1 (0-2)	0 (0-1)
Number of joints with radiographic joint space narrowing:		
• DIP joints, median (IQR)	6 (1-8)	0 (0-1)
• PIP joints, median (IQR)	2 (0-6)	0 (0-0)
• MCP joints, median (IQR)	0 (0-0)	0 (0-0)
• CMC1 joints, median (IQR)	0 (0-2)	0 (0-0)
Number of joints with radiographic central erosions:		
• DIP joints, median (IQR)	1 (0-4)	0 (0-0)
• PIP joints, median (IQR)	0 (0-1)	0 (0-0)
Any radiographic marginal erosions:		
• PIP joints, n (%)	8 (7.3)	5 (7.5)
• MCP joints, n (%)	5 (4.5)	7 (10.4)
• Wrist bones, n (%)	3 (2.7)	9 (13.4)
Laboratory tests:		
• CRP \geq 5 mg/L, n (%)	31 (25.8)	30 (43.5)
• ESR \geq 15 mm/hour, n (%)	26 (26.5)	30 (48.4)
• Positive anti-CCP, n (%)	3 (4.9)	14 (28.0)

- Positive rheumatoid factor, n (%) 9 (14.8) 17 (33.3)
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OA=osteoarthritis, DIP=distal interphalangeal, PIP=proximal interphalangeal, MCP=metacarpophalangeal, CMC1=first carpometacarpal, JSN=joint space narrowing, CRP=C-reactive protein, ESR=erythrocyte sedimentation rate, CCP=cyclic citrullinated protein. * Missing information about radiographic features (n=18), CRP (n=8), ESR (n=30), anti-CCP (n=67) and rheumatoid factor (n=67) in the hand OA group. ** Missing information about radiographic features (n=3 for fingers and wrists, and n=4 for CMC1 joints), CRP (n=1), ESR (n=8), anti-CCP (n=20) and rheumatoid factor (n=19) in the control group.