

Index Name : Kellgren Lawrence

Hand OA radiological index

Generalities :

Radiographs for hand OA could be either plain or digitalized images. Anteroposterior views of both hands on the same film are used.

Target population :

Patients with hand osteoarthritis

Method of use :

Radiological features of the Kellgren and Lawrence grading system of OA: Scoring each of the 30 joints from 0 to 4 according to the presence of osteophytes and joint space narrowing (subsequent suggestions by Spector and Lane).

Grade 0: none (no features)

Grade 1: doubtful OA (Osteophyte with doubtful significance)

Grade 2: minimal OA (Definite osteophyte, unpaired joint space)

Grade 3: moderate OA (Moderate diminution of joint space)

Grade 4: severe OA (Joint space greatly impaired with sclerosis of sub-chondral bone)

References :

- 1) Kellgren JH, Lawrence JS. Radiological assessment of osteo-arthrosis. Ann Rheum Dis. 1957 Dec;16(4):494-502.
- 2) Spector TD, Cooper C. Radiographic assessment of osteoarthritis in population studies: wither Kellgren and Lawrence? Osteoarthritis Cartilage 1993; 1: 203-6.
- 3) Lane NE, Kremer LB. Radiographic indices for osteoarthritis. Rheum Dis North Am 1995; 21: 379-94.

Links: