**Table 1.** Clinical characteristics of the patients and their medical history

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Patients with PA (n = 60) | Patients with psoriasis without PA (n = 40) | *P* value |
| Age, years | 39.6 ± 3.8 | 34.9 ± 3.5 | 0.365 |
| Bodyweight, kg | 72.3 ± 6.7 | 65.4 ± 5.5 | 0.427 |
| Duration of psoriasis, years | 15.5 ± 3.6 | 11.2 ± 4.2 | 0.438 |
| Duration of psoriatic arthritis, years | 5.3 ± 1.7 | – | – |
| Annual rate of psoriasis relapses | 2.1 ± 0.5 | 2.2 ± 0.5 | 0.887 |
| Duration of a relapse, days | 26.7 ± 6.5 | 28.9 ± 6.8 | 0.815 |
| PASI | 20.22 ± 5.37 | 19.64 ± 5.4 | 0.939 |

PA, psoriatic arthritis; PASI, Psoriasis Area and Severity Index

Values are given as arithmetic means and standard deviations

**Table 2.** Patients with psoriatic arthritis and with psoriasis meeting the CASPAR criteria

|  |  |  |  |
| --- | --- | --- | --- |
| CASPAR criteria (2006) | Patients with PA (n = 60), N (%) | Patients with psoriasis without PA (n = 40), N (%) | *P* value |
| Psoriasis | | | |
| Current | 52 (86.6) | 40 (100) | 0.020 |
| Past history | 60 (100) | 40 (100) | 1.000 |
| Familial history of psoriasis | 36 (60) | 22 (55) | 0.681 |
| Psoriatic onychodystrophy | 43 (71.6) | 14 (35) | 0.0004 |
| Rheumatoid factor negative | 51 (85) | 38 (95) | 0.191 |
| Dactylitis | | | |
| Current | 17 (28.3) | 2 (5) | 0.003 |
| Past history | 6 (10) | 0 | 0.078 |
| X-ray signs of extra-articular bone proliferation | 16 (26.6) | 2 (5) | 0.006 |

PA, psoriatic arthritis; psoriatic onychodystrophy, point depressions, onycholysis, hyperkeratosis; X-ray signs of extra-articular bone proliferation – by the type of marginal growth on radiographs of hands and feet

**Table 3.** Laboratory parameters in psoriasis and psoriatic arthritis

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | Reference values | Patients with PA (n = 60) | Patients with psoriasis without PA (n = 40) | *P* value |
| ACCP, U/mL | < 5 | 3.6 ± 1.08 | 2.0 ± 0.13 | 0.144 |
| ESR, mm/h | < 20 | 32.8 ± 5.5 | 25.5 ± 4.6 | 0.311 |
| CRP, mg/L | < 5 | 27.4 ± 4.8 | 9.5 ± 3.3 | 0.002 |
| HLA B27, no/yes | Negative | 47/13 | 38/2 | 0.024 |
| IgA, g/L | 1.5–3 | 3.7 ± 0.8 | 2.7 ± 0.1 | 0.217 |
| IgМ, g/L | 0.5–3.5 | 2.35 ± 0.5 | 1.2 ± 0.03 | 0.023 |
| IgG, g/L | 5.5–16.0 | 17.7 ± 1.24 | 8.45 ± 1.1 | < 0.0001 |
| С3, g/L | 0.9–1.8 | 1.7 ± 1.0 | 0.9 ± 0.3 | 0.445 |
| С4, g/L | 0.1–0.4 | 0.79 ± 0.16 | 0.1 ± 0.02 | 0.00004 |
| CIC, mU/mL | 30–90 | 89.3 ± 14.15 | 29.5 ± 8.0 | 0.0003 |

ACCP, cyclic citrullinated peptide antibodies; С3, С4, components of complement С3, С4; CIC, circulating immune complexes; CRP, C-reactive protein;  
ESR, erythrocyte sedimentation rate; HLA B27, human leukocyte antigen B27; IgА, IgG, IgM, fractions of immunoglobulins A, G, M; PA, psoriatic arthritis

Values are given as arithmetic means and standard deviations

**Table 4.** Serum bone metabolism parameters in the patients with psoriatic arthritis and patients with psoriasis without psoriatic arthritis

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | Reference values | Patients with PA (n = 60) | Patients with psoriasis without PA (n = 40) | *P* value |
| Calcium, mmol/L | 2.15–2.65 | 2.0 ± 0.16 | 2.2 ± 0.36 | 0.612 |
| Phosphorus, mmol/L | 0.87–1.45 | 0.8 ± 0.37 | 1.6 ± 0.14 | 0.045 |
| Magnesium, mmol/L | 0.75–1.25 | 0.5 ± 0.03 | 1.0 ± 0.15 | 0.001 |
| Seromucoid, U | 0.13–0.2 | 0.33 ± 0.11 | 0.15 ± 0.1 | 0.228 |
| ММР-1, ng/mL | 0–30 | 37.68 ± 4.23 | 3.05 ± 2.26 | < 0.0001 |
| AP, U/mL | < 140 | 150.2 ± 25.8 | 59.5 ± 21.1 | 0.007 |
| Osteocalcin, ng/mL | 11–43 | 17.57 ± 1.4 | 24.13 ± 1.77 | 0.004 |
| PTH, ng/mL | 10–65 | 67.3 ± 11.2 | 25.1 ± 12.6 | 0.013 |
| Vitamin D, total, ng/mL | 50–100 | 39.3 ± 15.1 | 55.3 ± 14.5 | 0.446 |
| ММР-3, ng/mL | 0–30 | 42.35 ± 12.15 | 11.36 ± 5.68 | 0.022 |
| ММР-8, ng/mL | 0–30 | 18.25 ± 11.0 | 8.56 ± 2.15 | 0.389 |
| СОМР, ng/mL | < 1000 | 415.2 ± 62.3 | 199.5 ± 45.3 | 0.006 |

AP, alkaline phosphatase; СОМР, oligomeric matrix protein of cartilage; MMP, matrix metalloproteinase; PA, psoriatic arthritis; PTH, parathyroid hormone