**Table 1. Clinical and demographic characteristics of the patients**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Group with psoriasis (n = 80) | Group with PsA (n = 80) | P value |
| Age, years, М ± m | 40.57 ± 7.45 | 43.16 ± 8.62 | 0.82 |
| Age at manifestation, years, М ± m | 21.42 ± 5.54 | 19.22 ± 6.24 | 0.791 |
| Duration of the disease, years, М ± m | 17.36 ± 3.16 | 18.28 ± 4.13 | 0.859 |
| Current psoriasis, N (%) | 80 (100) | 80 (100) | > 0.05 |
| Past history of psoriasis, N (%) | 80 (100) | 80 (100) | > 0.05 |
| Familial history of psoriasis, N (%) | 45 (45.5) | 63 (63.0) | 0.002 |
| PASI score, М ± m | 13.11 ± 1.29 | 18.23 ± 2.07 | 0.037 |
| Annual rate of exacerbations, N, M ± m | 1.9 ± 0.34 | 2.7 ± 0.12 | 0.027 |
| Duration of the exacerbation, days, M ± m | 23.4 ± 3.7 | 36.8 ± 5.5 | 0.044 |

М, mean; m, standard deviation of the mean; PASI, psoriasis area and severity index; PsA, psoriatic arthritis

**Table 2. The rate of complaints from the skeletal/muscle system and various types of activity, N (%)**

|  |  |  |  |
| --- | --- | --- | --- |
| Type of complaints / type of activity\* | Group with psoriasis (n = 80) | Group with PsA (n = 80) | P value |
| Pain syndrome | 28 (35.0) | 80 (100) | < 0.001 |
| Morning joint stiffness | 22 (27.5) | 60 (80.0) | < 0.001 |
| Limitation of joint mobility | 21 (26.2) | 57 (71.2) | < 0.001 |
| Back pain | 6 (7.5) | 24 (30.0) | < 0.001 |
| No complaints | 52 (65.0) | 0 | < 0.001 |
| The activity related to small joints overload | 44 (55.0) | 57 (71.2) | 0.034 |
| The activity related to big joint overload | 36 (45.0) | 49 (61.2) | 0.040 |
| The activity related to vertebral overload | 12 (15.0) | 28 (35.0) | 0.004 |
| History of a trauma to skeletal/muscle system | 6 (7.5) | 10 (12.5) | 0.292 |

PsA, psoriatic arthritis

\* One patient could have several overlapping types of activity in the past history

**Table 3. The rate of the Koebner’s phenomenon in the patients with psoriasis and psoriatic arthritis, N (%)**

|  |  |  |  |
| --- | --- | --- | --- |
| Location | Group with psoriasis (n = 80) | Group with PsA (n = 80) | P value |
| Skin | 66 (82.5) | 75 (93.7) | 0.028 |
| Deep Koebner's phenomenon (a combination of symptoms can be present in one patient): |
| Tendinitis (hand) | 32 (40.0) | 51 (63.7) | 0.003 |
| “Sausage-shaped” fingers | 11 (13.7) | 26 (32.5) | 0.005 |
| Enthesitis in the lateral humeral condylus area | 13 (16.2) | 27 (33.7) | 0.011 |
| Enthesitis in the medial femoral condylus area | 19 (23.7) | 33 (41.2) | 0.019 |
| Enthesitis in the Achilles tendon | 14 (17.5) | 42 (52.5) | < 0.001 |
| Tenderness in the vertebral spines area | 23 (28.7) | 63 (78.7) | < 0.001 |
| Periarticular edema | 22 (27.5) | 51 (63.7) | < 0.001 |
| Pain syndrome + skin rash\* | 26 (32.5) | 74 (92.5) | < 0.001 |
| Pain syndrome related to the type of activity\*\* | 38 (47.5) | 55 (68.7) | 0.007 |

PsA, psoriatic arthritis

\* Both pains and rashes located in the same area

\*\* Pain located in the joints with maximal functional overload or past trauma history

**Table 4. X-ray data in the patients with psoriasis and psoriatic arthritis, N (%)**

|  |  |  |  |
| --- | --- | --- | --- |
| The stage of X-ray abnormalities | Group with psoriasis (n = 80) | Group with PsA (n = 80) | P value |
| Total number of patients with X-ray abnormalities, including: | 44 (55.0) | 80 (100) | < 0.001 |
| Stage I | 25 (31.2) | 0 | < 0.001 |
| Stage II | 19 (23.8) | 39 (48.7) | 0.002 |
| Stage III | 0 | 37 (46.3) | < 0.001 |
| Stage IV | 0 | 4 (5.0) | 0.043 |
| Of them, the patients with signs of trauma\* and isomorphic reaction | 38/44 (86.3), 38/80 (47.5) | 71/80 (88.7) | 0.697< 0.001 |

PsA, psoriatic arthritis

\* Includes the patients with a history of a joint trauma

**Table 5. Various types of the joint syndrome in the patients with psoriatic arthritis, N (%)**

|  |  |  |  |
| --- | --- | --- | --- |
| Type of the joint syndrome (L40.5) | Group with psoriasis\* (n = 80) | Group with PsA (n = 80) | P value |
| Asymmetrical mono- or oligoarthritis | 6 (15.8) | 6 (7.5) | 0.164 |
| Distal | 24 (63.2) | 47 (58.7) | 0.648 |
| Symmetrical polyarthritis | 5 (13.2) | 20 (25.0) | 0.142 |
| Psoriatic spondylitis | 3 (7.8) | 4 (5.0) | 0.534 |
| Mutilating arthritis | 0 | 3 (3.8) | 0.227 |

L40.5, the International Classification of Diseases, 10th revision code; PsA, psoriatic arthritis

\* Only the patients with psoriasis group with newly diagnosed PsA are included