

**Table SI. Prevalence of depression and anxiety in psoriatic patients from various countries**

| Country     | HADS – Anxiety                           |                                            |                                           | HADS – Depression                              |                                                  |                                                 |
|-------------|------------------------------------------|--------------------------------------------|-------------------------------------------|------------------------------------------------|--------------------------------------------------|-------------------------------------------------|
|             | Anxiety unlikely<br>(<7 points)<br>n (%) | Anxiety possible<br>(8–10 points)<br>n (%) | Anxiety probable<br>(>10 points)<br>n (%) | Depression<br>unlikely<br>(<7 points)<br>n (%) | Depression<br>possible<br>(8–10 points)<br>n (%) | Depression<br>probable<br>(>10 points)<br>n (%) |
| Belgium     | 18 (45)                                  | 9 (22.5)                                   | 13 (32.5)                                 | 30 (75)                                        | 5 (12.5)                                         | 5 (12.5)                                        |
| Denmark     | 33 (76.7)                                | 6 (14)                                     | 4 (9.3)                                   | 37 (86.1)                                      | 5 (11.6)                                         | 1 (2.3)                                         |
| France      | 8 (47.1)                                 | 5 (29.4)                                   | 4 (23.5)                                  | 13 (76.5)                                      | 3 (17.6)                                         | 1 (5.9)                                         |
| Germany     | 15 (51.7)                                | 4 (13.8)                                   | 10 (34.5)                                 | 18 (62.1)                                      | 4 (13.8)                                         | 7 (24.1)                                        |
| Hungary     | 27 (71)                                  | 8 (21.1)                                   | 3 (7.9)                                   | 27 (71.1)                                      | 8 (21)                                           | 3 (7.9)                                         |
| Italy       | 20 (24.4)                                | 21 (25.6)                                  | 41 (50)                                   | 28 (34.1)                                      | 20 (24.4)                                        | 34 (41.5)                                       |
| Netherlands | 16 (69.6)                                | 3 (13.0)                                   | 4 (17.4)                                  | 17 (73.9)                                      | 5 (21.7)                                         | 1 (4.4)                                         |
| Norway      | 81 (62.8)                                | 21 (16.3)                                  | 27 (20.9)                                 | 102 (79.1)                                     | 14 (10.8)                                        | 13 (10.1)                                       |
| Poland      | 28 (45.9)                                | 18 (29.5)                                  | 15 (24.6)                                 | 36 (59)                                        | 15 (24.6)                                        | 10 (16.4)                                       |
| Russia      | 52 (71.2)                                | 13 (17.8)                                  | 8 (11)                                    | 53 (72.6)                                      | 14 (19.2)                                        | 6 (8.2)                                         |
| Spain       | 37 (71.1)                                | 8 (15.4)                                   | 7 (13.5)                                  | 44 (84.6)                                      | 7 (13.5)                                         | 1 (1.9)                                         |
| Turkey      | 17 (63)                                  | 6 (22.2)                                   | 4 (14.8)                                  | 17 (63)                                        | 7 (25.9)                                         | 3 (11.1)                                        |
| UK          | 29 (58)                                  | 10 (20)                                    | 11 (22)                                   | 39 (78)                                        | 5 (10)                                           | 6 (12)                                          |

**Table SII. Multiple regression analysis of studied parameters**

| Dependent variable                         | Independent variable with significant impact   | Beta  | p-value |
|--------------------------------------------|------------------------------------------------|-------|---------|
| Itch intensity                             | Country of living                              | -0.18 | <0.001  |
|                                            | Sex                                            | 0.11  | 0.02    |
|                                            | Marital status                                 | 0.11  | 0.04    |
| Satisfaction with your dermatologist       | Country of living                              | 0.22  | <0.001  |
|                                            | Itch intensity                                 | -0.21 | <0.001  |
| General health status: EQ-5D questionnaire | Age                                            | 0.15  | 0.001   |
|                                            | Socio-economical level                         | -0.12 | 0.006   |
|                                            | Economic difficulties in the last 5 years      | -0.14 | 0.002   |
|                                            | Stressful life events during the last 6 months | -0.15 | <0.001  |
|                                            | Itch intensity                                 | 0.29  | <0.001  |
| Self-rated health status: EQ-5D (VAS)      | Age                                            | -0.18 | <0.001  |
|                                            | Economic difficulties in the last 5 years      | 0.12  | <0.01   |
|                                            | Stressful life events during the last 6 months | 0.15  | 0.002   |
|                                            | Itch intensity                                 | -0.28 | <0.001  |
|                                            | Country of living                              | -0.16 | <0.001  |
| Anxiety level: HADS                        | Sex                                            | 0.15  | <0.001  |
|                                            | Economic difficulties in the last 5 years      | -0.18 | <0.001  |
|                                            | Stressful life events during the last 6 months | -0.18 | <0.001  |
|                                            | Itch intensity                                 | 0.19  | <0.001  |
|                                            | Country of living                              | -0.13 | 0.005   |
| Depression level: HADS                     | Economic difficulties in the last 5 years      | -0.18 | <0.001  |
|                                            | Stressful life events during the last 6 months | -0.14 | 0.002   |
|                                            | Itch intensity                                 | 0.24  | <0.001  |
|                                            | Education level                                | 0.08  | <0.05   |
|                                            | Economic difficulties in the last 5 years      | -0.12 | <0.01   |
| QoL: DLQI                                  | Stressful life events during the last 6 months | -0.16 | <0.001  |
|                                            | Itch intensity                                 | 0.47  | <0.001  |

QoL: quality of life; VAS: visual analogue scale; EQ-5D: EuroQoL; HADS: Hospital Anxiety and Depression Scale; DLQI: Dermatology Life Quality Index.

**Table SIII. Assessment of pruritus intensity in psoriatic patients from different European countries based on visual analogue scale (VAS) scoring (pruritus intensity was assessed in 464 out of 474 pruritic subjects)**

| Country     | VAS scoring                                    |                                                    |                                                  |                                               |
|-------------|------------------------------------------------|----------------------------------------------------|--------------------------------------------------|-----------------------------------------------|
|             | Mild pruritus<br>(> 0 and < 3 points)<br>n (%) | Moderate pruritus<br>(≥ 3 and < 7 points)<br>n (%) | Severe pruritus<br>(≥ 7 and < 9 points)<br>n (%) | Very severe pruritus<br>(≥ 9 points)<br>n (%) |
| Belgium     | 5 (20)                                         | 13 (52)                                            | 6 (24)                                           | 1 (4)                                         |
| Denmark     | 5 (19.2)                                       | 14 (53.8)                                          | 6 (23.1)                                         | 1 (3.8)                                       |
| France      | 1 (16.7)                                       | 3 (50)                                             | 2 (33.3)                                         | 0 (0)                                         |
| Germany     | 0 (0)                                          | 11 (45.8)                                          | 7 (29.2)                                         | 6 (25)                                        |
| Hungary     | 4 (18.2)                                       | 12 (54.5)                                          | 4 (18.2)                                         | 2 (9.1)                                       |
| Italy       | 2 (2.6)                                        | 33 (43.4)                                          | 30 (39.5)                                        | 11 (14.5)                                     |
| Netherlands | 3 (15.8)                                       | 14 (73.7)                                          | 2 (10.5)                                         | 0 (0)                                         |
| Norway      | 12 (11.7)                                      | 50 (48.5)                                          | 27 (26.2)                                        | 14 (13.6)                                     |
| Poland      | 6 (12.8)                                       | 22 (46.8)                                          | 13 (27.7)                                        | 6 (12.8)                                      |
| Russia      | 9 (25)                                         | 15 (41.7)                                          | 6 (16.7)                                         | 6 (16.7)                                      |
| Spain       | 6 (17.6)                                       | 16 (47.1)                                          | 8 (23.5)                                         | 4 (11.8)                                      |
| Turkey      | 1 (5)                                          | 7 (35)                                             | 8 (40)                                           | 4 (20)                                        |
| UK          | 0 (0)                                          | 17 (65.4)                                          | 5 (19.2)                                         | 4 (15.4)                                      |