

Supplementary Material Table S1. Musculoskeletal involvement features of the patients in pediatric rheumatology and pediatric hematology centers.

| | Rheumatology (n=83) | Hematology (n=59) | Total Patients (n=142) | P value |
|------------------------------|------------------------|----------------------|---------------------------|--------------|
| Arthralgia, n (%) | 77 (92.7) | 77 (92.7) | 100 (70.4) | 0.000 |
| Knee, n (%) | 34 (44.1) | 34 (44.1) | 55 (55) | 0.319 |
| Hip, n (%) | 20 (25.9) | 20 (25.9) | 25 (25) | 0.012 |
| Sacroiliac, n (%) | 8 (10.3) | 8 (10.3) | 8 (8) | 0.012 |
| Ankle, n (%) | 14 (18.1) | 14 (18.1) | 20 (20) | 0.189 |
| Wrist, n (%) | 14 (18.1) | 14 (18.1) | 14 (14) | 0.000 |
| Small joints, n (%) | 3 (3.8) | 3 (3.8) | 4 (4) | 0.447 |
| Arthritis, n (%) | 16 (19.2) | 16 (19.2) | 27 (19) | 0.552 |
| Knee, n (%) | 13 (81.2) | 13 (81.2) | 17 (62.9) | 0.087 |
| Hip, n (%) | 4 (25) | 4 (25) | 4 (14.8) | 0.113 |
| Sacroiliac, n (%) | 7 (43.7) | 7 (43.7) | 9 (33.3) | 0.195 |
| Ankle, n (%) | 7 (43.7) | 7 (43.7) | 7 (25.9) | 0.021 |
| Wrist, n (%) | 3 (18.7) | 3 (18.7) | 3 (11.1) | 0.197 |
| Bone pain, n (%) | 47 (56.6) | 47 (56.6) | 99 (69.7) | 0.000 |
| Back pain, n (%) | 13 (27.6) | 13 (27.6) | 18 (18.1) | 0.156 |
| Lumbar pain, n (%) | 16 (34) | 16 (34) | 24 (24.2) | 0.254 |
| Lower limb pain, n (%) | 29 (61.7) | 29 (61.7) | 74 (74.7) | 0.000 |
| Upper limb pain, n (%) | 14 (29.7) | 14 (29.7) | 18 (18.1) | 0.061 |
| Generalized bone pain, n (%) | 38 (80) | 38 (80) | 52 (52.5) | 0.006 |
| Severe pain, n (%) | 60 (72.2) | 60 (72.2) | 98 (69) | 0.207 |
| Morning stiffness, n (%) | 4 (4.8) | 4 (4.8) | 8 (5.6) | 0.441 |

Supplementary Material Table S2. Musculoskeletal involvement features of the patients in hematological and solid malignancies.

| | Hematological Malignancies (n=88) | Solid Malignancies (n=54) | P value |
|------------------------------|--------------------------------------|------------------------------|--------------|
| Arthralgia, n (%) | 61 (69.3) | 44 (81.4) | 0.078 |
| Knee, n (%) | 33 (54) | 22 (50) | 0.417 |
| Hip, n (%) | 11 (18) | 14 (31.8) | 0.036 |
| Sacroiliac, n (%) | 4 (6.5) | 4 (9.1) | 0.358 |
| Ankle, n (%) | 13 (21.3) | 7 (15.9) | 0.485 |
| Wrist, n (%) | 11 (18) | 3 (6.8) | 0.145 |
| Small joints, n (%) | 3 (4.9) | 1 (2.2) | 0.509 |
| Arthritis, n (%) | 15 (17) | 12 (22.2) | 0.291 |
| Knee, n (%) | 8 (53.3) | 9 (75) | 0.140 |
| Hip, n (%) | 2 (13.3) | 2 (16.6) | 0.491 |
| Sacroiliac, n (%) | 4 (26.6) | 4 (33.6) | 0.468 |
| Ankle, n (%) | 5 (33.3) | 2 (16.6) | 0.461 |
| Wrist, n (%) | 2 (13.3) | 1 (8.3) | 0.667 |
| Other, n (%) | 3 (20) | 3 (25) | 0.271 |
| Bone pain, n (%)n (%) | 70 (79.5) | 29 (53.7) | 0.001 |
| Back pain, n (%) | 8 (11.4) | 10 (34.4) | 0.085 |
| Lumbar pain, n (%) | 13 (18.5) | 11 (37.9) | 0.261 |
| Lower limb pain, n (%) | 54 (77.1) | 20 (68.9) | 0.004 |
| Upper limb pain, n (%) | 12 (17.1) | 6 (20.6) | 0.435 |
| Generalized bone pain, n (%) | 31 (44.2) | 21 (72.4) | 0.396 |
| Severe pain, n (%) | 60 (68.1) | 38 (70.3) | 0.468 |
| Morning stiffness, n (%) | 7 (7.9) | 1 (1.8) | 0.121 |