

Supplementary Table 1. Comparisons of baseline characteristics between all UA patients and UA patients with 2-years followup data.

| | All UA patients (n=477) | All UA-patients with 2-yrs followup data (n=320) |
|--|----------------------------|---|
| Age, mean (SD) | 46.5 (14.7) | 48.1 (14.9) |
| Female, n (%) | 262 (54.9) | 186 (58.1) |
| Duration, median (25,75) | 29 (10,61.5) | 35 (14,67) |
| BMI, mean (SD) | 25.7 (4.3) | 26.0 (4.4) |
| Ever smoker, n (%) | 271 (56.8) | 189 (59.1) |
| RF- and/or ACPA-positive, n(%) | 31 (6.5) | 27 (8.4) |
| -RF-positive | 21 (4.4) | 19 (5.9) |
| -ACPA-positive | 18 (3.8) | 16 (5.0) |
| Monoarticular arthritis, n (%) | 246 (51.6) | 156 (48.8) |
| Oligoarticular arthritis, n (%) | 177 (37.1) | 127 (39.7) |
| Polyarticular arthritis, n (%) | 54 (11.3) | 37 (11.6) |
| ESR, median (25,75) | 18 (9,36) | 19 (10,37) |
| CRP, median (25,75) | 10 (3,32) | 10 (3,30.8) |
| 68-SJC, median (25,75) | 1 (1,3) | 2 (1,3) |
| 28-TJC, median (25,75) | 1 (0,2) | 1 (1,2) |
| Small joint involvement, n (%) | 216 (45.3) | 155 (48.4) |
| DAS 28, mean (SD) | 3.6 (1.1) | 3.7 (1.1) |
| HAQ, median (25,75) | 0.63 (0.3,1.1) | 0.63 (0.4,1.1) |
| Assessor global VAS, mean (SD) | 29.8 (17.1) | 30 (16.4) |

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|--|-------------|-------------|
| Patient global VAS, mean (SD) | 50.3 (24.7) | 51.3 (25.1) |
| Criteria points, median (25,75) | 3 (1,4) | 3 (2,4) |
| Swollen shoulder joint, n (%) | 41 (8.6) | 9 (2.8) |

RF, rheumatoid factor; ACPA, anti-citrullinated peptide antibody; ESR, erythrocyte sedimentation rate; CRP, C-reactive protein; 68-SJC, 68-swollen joint count (standard 66-SJC plus hip joints); 28-TJC, 28-tender joint count; VAS, visual analogue scale; HAQ, health assessment questionnaire; DAS28, disease activity score-28; Small joint involvement, metacarpophalangeal joints, proximal interphalangeal joints, second through fifth metatarsophalangeal joints, thumb interphalangeal joints, and wrists. † > 4 swollen joints. ‡ 2 to ≤ 4 swollen joints.

Supplementary Table 2. Uni- and multivariable logistic analyses with final clinical diagnosis of RA as the outcome.

| | Univariable analyses | | | Multivariable model 1* | | | Multivariable model 2§ | | |
|--------------------------------------|----------------------|-----------|---------|------------------------|-----------|---------|------------------------|-----------|---------|
| | OR | 95% CI | p-value | OR | 95% CI | p-value | OR | 95% CI | p-value |
| Age per 10 yrs | 1.23 | 0.98-1.55 | 0.08 | 1.21 | 0.95-1.54 | 0.12 | 1.28 | 1.00-1.64 | 0.05 |
| Sex (ref. male) | 1.64 | 0.82-3.29 | 0.16 | 1.89 | 0.89-4.00 | 0.10 | 1.70 | 0.80-3.61 | 0.17 |
| Small joint involvement | 3.25 | 1.57-6.71 | 0.001 | 4.09 | 1.83-9.15 | 0.001 | | | |
| RF/ACPA status (ref.double negative) | 7.1 | 3.06-16.5 | <0.001 | 8.47 | 3.36-21.3 | <0.001 | 12.3 | 4.75-31.6 | <0.001 |
| Swollen shoulder joint | 6.34 | 22.1 | 0.004 | 6.20 | 1.54-25.0 | 0.01 | | | |
| Joint involvement | | | <0.001 | | | | | | <0.001 |
| Oligo- vs. Monoarticular | 2.44 | 1.04-5.71 | 0.04 | | | | 2.34 | 0.95-5.75 | 0.06 |

| | | | | | | |
|---------------|------|-----------|---------|------|-----------|---------|
| Poly- vs. | 9.23 | 3.74-22.7 | < 0.001 | 13.5 | 5.11-35.9 | < 0.001 |
| Monoarticular | | | | | | |

* AUC (95% CI) = 0.78 (0.71-0.85), Hosmer-Lemeshow test p = 0.18. § AUC (95% CI) = 0.8, Hosmer-Lemeshow test p = 0.48.