

**Supplementary Table 1.** Characteristics of patients with RA, PSA and AS according to distribution of gender, birth year, year of first symptoms, year of first diagnosis, year of data entry into DANBIO and geographical region.

	RA (n=10,416)	PSA (n=1,970)	AS (n=1,335)
Female gender	7,626 (73.2%)	1,103 (56.0%)	389 (29.1%)
Birth year			
-1929	716 (6.9%)	14 (0.7%)	0 (0.0%)
-1939	2,128 (20.4%)	90 (4.6%)	23 (1.2%)
-1949	2,960 (28.4%)	338 (17.2%)	111 (5.6%)
-1959	2,272 (21.8%)	536 (27.2%)	226 (11.5%)
-1969	1,443 (13.9%)	531 (27.0%)	342 (17.4%)
-1979	665 (6.4%)	315 (16.0%)	395 (20.1%)
-1989	203 (1.9%)	131 (6.6%)	219 (11.1%)
-1995	29 (0.3%)	15 (0.8%)	19 (1.0%)
Year of first symptoms			
-prior to 1999	4,177 (40.1%)	662 (33.6%)	793 (59.4%)
-2002	1,340 (12.9%)	279 (14.2%)	159 (11.9%)
-2005	1,674 (16.1%)	374 (19.0%)	154 (11.5%)
-2008	1,902 (18.3%)	403 (20.5%)	161 (12.1%)
-2011	1,323 (12.7%)	252 (12.8%)	68 (5.1%)
Year of first diagnosis			
-prior to 1999	3,432 (32.9%)	363 (18.4%)	368 (27.6%)
-2002	1,104 (10.6%)	196 (9.9%)	114 (8.5%)
-2005	1,531 (14.7%)	310 (15.7%)	165 (12.4%)
-2008	2,211 (21.2%)	530 (26.9%)	325 (24.3%)
-2011	2,138 (20.5%)	571 (29.0%)	363 (27.2%)
Year of data entry			
Prior to 2006	700 (6.7%)	90 (4.6%)	100 (7.5%)
2006	849 (8.2%)	74 (3.8%)	99 (7.4%)
2007	2,832 (27.2%)	175 (8.9%)	201 (15.1%)
2008	1,260 (12.1%)	269 (13.7%)	203 (15.2%)
2009	1,449 (13.9%)	369 (18.7%)	235 (17.6%)
2010	1,862 (17.9%)	509 (25.8%)	283 (21.2%)
2011	1,464 (14.1%)	484 (24.6%)	214 (16.0%)
Region			
Capital	3,074 (29.5%)	572 (29.0%)	442 (33.1%)
Zealand	1,418 (13.6%)	306 (15.5%)	182 (13.6%)
Southern Denmark	3,009 (28.9%)	496 (25.2%)	292 (21.9%)
Central Denmark	1,661 (15.9%)	334 (17.0%)	317 (23.7%)
North Denmark	1,254 (12.0%)	262 (13.3%)	102 (7.6%)