

Supplementary Table 1. Description of plasma glucose testing.

	RA cohort (n = 22,624)	General Pop (n = 22,579)
Number of tests per patient year, [median (Q1, Q3)]	0.49 (0.25, 0.78)*	0.46 (0.22, 0.73)*
Time from index date to first PG test, days [median (25th, 75th)]	603 (251, 1148)**	597 (270, 1157)**
Time between PG tests in those with ≥ 2 tests, days [median (25th, 75th)]	307 (109, 538)*	366 (178, 585)*

Abbreviations: SD: Standard deviation; 25Q: first quartile; 75Q: third quartile

*p value comparing RA vs. general population <0.0001; **p value = 0.0036

Supplementary Table 2. Compliance with PG test for RA individuals stratified by categorical variables.

Predictive Variable	Categories	Compliance[*]
Sex	Male	70.5%
	Female	71.9%
Age^{**}	40-50	62.4%
	51-60	70.4%
	61-70	75.3%
	71-80	75.3%
	81-90	72.3%
	90+	57%
Urban vs Rural	Rural	71.5%
	Urban	71.3%
Health Authority	Interior	70.1%
	Fraser	73.4%
	Coastal	70.1%
	Island	72.5%
	Northern	69.0%
SES Index (Quartiles)	Lowest 25%	73.6%
	25%-50%	70.6%
	50%-75%	72.6%
	75%+	68.7%
SES Index, highest quartile vs others	Lowest 75%	72.3%
	Upper 25%	68%
Romano comorbidity score, ≥ 1 vs 0	0	71.6%
	1 and above	71.4%
Having a hospitalization in the prior year[‡]	No	70.9%

Predictive Variable	Categories	Compliance*
Seeing a rheumatologist in the prior 5 years ^{††}	Yes	73.4%
	No	73.6%
	Yes	64%
Rate of physician visits in the prior year ^{‡‡}	11 or less visits	68.9%
	More than 11 visits	74.3%
Timing of periods, starting \geq 2001 vs. <2001 [†]	Before 2001	60.6%
	After2001	77.2%
GC use within eligibility period	Yes	75.7%
	No	70.5%

Abbreviations: SES: Socioeconomic status; GC: Glucocorticosteroids

*Compliance measured with periods as the unit of analysis, i.e., as the number of periods with ≥ 1 glucose test divided by the number of eligible periods in RA cohort, converted to a percentage.

**Age: Stratified into groups of 10 years, measured at the start of each new period

[†]Compliance per period was stratified according to whether the date at the beginning of the period was before or after 01 Jan 2001.

^{††}measured in the 5 years prior to the start of period

[‡]measured in the year prior to start of period

^{‡‡} rate of physician visits dichotomized at the median of 11 visits per year per individual