ONLINE SUPPLEMENTARY DATA

Supplementary Table 1. Fully-saturated Cox proportional hazards model – baseline visit predictors of all-cause mortality.

		Hazard ratio (95% CI)	P
Age (years)	<50	Ref	-
	50-60	1.01 (0.21, 4.84)	0.99
	60-70	1.97 (0.58, 6.66)	0.28
	70-80	7.99 (2.04, 31.26)	0.0028
	80-91	6.77 (1.40, 32.85)	0.018
Sex (female)		1.58 (0.74, 3.35)	0.24
Māori or Pacific ethnicity		2.04 (0.83, 4.99)	0.12
Disease duration		1.06 (0.96, 1.18)	0.27
Flare frequency (preceding 3 months)		1.05 (0.94, 1.17)	0.43
Smoker		0.83 (0.25, 2.70)	0.75
Hypertension		1.12 (0.53, 2.36)	0.77
Hypercholesterolaemia		0.79 (0.38, 1.65)	0.53
Type 2 diabetes		1.34 (0.56, 3.22)	0.51
Previous history of cardiovascular disease		1.17 (0.47, 2.93)	0.74
Loop diuretic use		3.41 (1.56, 7.47)	0.0021
Allopurinol use		0.73 (0.31, 1.70)	0.47
Colchicine use		1.39 (0.62, 3.12)	0.42
Body mass index		0.99 (0.93, 1.05)	0.69
Presence of subcutaneous tophi		3.20 (1.48, 6.95)	0.0032
Serum urate		0.72 (0.034, 15.05)	0.83
Serum creatinine (per 10µmol/L change)		1.03 (1.00, 1.07)	0.057

Supplementary Table 2. Fully-saturated Cox proportional hazards model – baseline visit predictors of cardiovascular mortality.

		Hazard ratio (95% CI)	P
Age (years)	<50	Ref	-
	50-60	1.53 (0.20, 12.05)	0.69
	60-70	0.93 (0.14, 6.17)	0.94
	70-80	3.25 (0.44, 24.12)	0.25
	80-91	5.27 (0.61, 45.72)	0.12
Sex (female)		2.95 (1.01, 8.63)	0.049
Māori or Pacific ethnicity		0.80 (0.19, 3.32)	0.76
Disease duration		1.09 (0.94, 1.25)	0.25
Flare frequency (preceding 3 months)		0.95 (0.78, 1.16)	0.61
Smoker		0.45 (0.05, 4.00)	0.47
Hypertension		1.45 (0.51, 4.14)	0.49
Hypercholesterolaemia		0.77 (0.28, 2.15)	0.62
Type 2 diabetes		1.12 (0.35, 3.65)	0.84
Previous history of cardiovascular disease		3.37 (0.84, 13.57)	0.088
Loop diuretic use		2.31 (0.87, 6.17)	0.093
Allopurinol use		0.66 (0.21, 2.03)	0.46
Colchicine use		2.49 (0.80, 7.70)	0.11
Body mass index		0.96 (0.88, 1.06)	0.44
Presence of subcutaneous tophi		2.73 (0.98, 7.61)	0.056
Serum urate		1.82 (0.028, 118.02)	0.78
Serum creatinine (per 10µmol/L change)		1.04 (0.99, 1.09)	0.147

Supplementary Table 3. Multivariate adjusted proportional hazards for baseline predictors of cardiovascular mortality. Reduced model includes all variables with P<0.15 in the fully saturated model.

	Hazard ratio (95% CI)	*P*
Female sex	2.59 (1.14, 5.91)	0.023
Previous history of cardiovascular disease	4.05 (1.20, 13.66)	0.024
Loop diuretic use	2.50 (0.98, 6.37)	0.054
Colchicine use	1.13 (0.46, 2.77)	0.79
Presence of subcutaneous tophi	3.13 (1.38, 7.10)	0.006
Serum creatinine (per 10µmol/L change)	1.02 (0.98, 1.06)	0.27

Supplementary Table 4. Fully-saturated Cox proportional hazards model – baseline visit predictors of non-cardiovascular death.

		Hazard ratio (95% CI)	P
Age (years)	<50	Ref	-
	50-60	0.00 (0.00,)	0.99
	60-70	5.15 (0.93, 28.65)	0.061
	70-80	19.83 (2.60, 151.38)	0.004
	80-91	5.57 (0.37, 83.10)	0.21
Sex (female)		0.86 (0.28, 2.69)	0.80
Māori or Pacific ethnicity		3.92 (1.09, 14.10)	0.04
Disease duration		1.06 (0.88, 1.28)	0.53
Flare frequency (preceding 3 months)		1.09 (0.93, 1.27)	0.28
Smoker		1.05 (0.20, 5.57)	0.95
Hypertension		0.82 (0.25, 2.65)	0.74
Hypercholesterolaemia		0.77 (0.24, 2.46)	0.66
Type 2 diabetes		1.98 (0.42, 9.24)	0.39
Previous history of cardiovascular disease		0.37 (0.09, 1.55)	0.17
Loop diuretic use		6.25 (1.56, 25.08)	0.01
Allopurinol use		0.88 (0.21, 3.73)	0.86
Colchicine use		0.73 (0.20, 2.61)	0.63
Body mass index		1.03 (0.94, 1.12)	0.55
Presence of subcutaneous tophi		3.85 (1.04, 14.31)	0.04
Serum urate		0.22 (0.001, 36.26)	0.56
Serum creatinine (per 10µmol/L change)		1.03 (0.97, 1.09)	0.39

Supplementary Table 5. Multivariate adjusted proportional hazards for baseline predictors of non-cardiovascular mortality. Reduced model includes all variables with P<0.15 in the fully saturated model.

		Hazard ratio (95% CI)	*P*
Age (years)	<50	ref	-
	50-60	0.00 (0.00)	0.99
	60-70	2.52 (0.61, 10.44)	0.20
	70-80	9.21 (2.03, 41.71)	0.004
	80-91	4.19 (0.57, 30.69)	0.16
Māori or Pacific ethnicity		4.24 (1.42, 12.72)	0.010
Loop diuretic use		3.98 (1.51, 10.41)	0.005
Presence of subcutaneous tophi		3.48 (1.25, 9.63)	0.017