

Cohort study investigating gout flares and management in UK general practice: Additional File A1

Univariate analysis: Association between variables and flares (Cox proportional-hazards model Anderson-Gill method) and ULT initiation (logistic regression)

		Hazard ratio for flares (95%CI)	P	Odds Ratio for ULT (95%CI)	P
	50-59	1.00 (0.94-1.07)	0.926	0.96 (0.91-1.02)	0.181
Age (25-49 reference)	60-69	1.18 (1.11-1.25)	<0.001	0.97 (0.93-1.04)	0.644
	70-79	1.37 (1.30-1.46)	<0.001	1.03 (0.97-1.09)	0.408
	80+	1.38 (1.29-1.48)	<0.001	0.82 (0.77-0.88)	<0.001
	Female	0.78 (0.74-0.81)	<0.001	0.77 (0.74-0.81)	<0.001
Sex (ref male)	Black	1.18 (1.10-1.27)	<0.001	1.12 (1.03-1.21)	0.004
	South Asian	0.92 (0.78-1.09)	0.337	0.78 (0.67-0.95)	0.011
	Mixed Race	0.76 (0.51-1.13)	0.178	0.83 (0.54-1.27)	0.389
	Other	1.03 (0.90-1.19)	0.639	0.94 (0.81-1.08)	0.391
	Missing	1.03 (1.00-1.07)	0.153	1.00 (0.95-1.06)	0.960
IMD (ref 1st (least deprived) decile)	2	1.11 (1.01-1.22)	0.031	1.04 (0.94-1.16)	0.429
	3	1.02 (1.01-1.24)	0.644	1.09 (1.05-1.31)	0.145
	4	1.12 (1.01-1.24)	0.026	1.17 (1.05-1.31)	0.006
	5	1.24 (1.10-1.39)	<0.001	1.29 (1.13-1.48)	<0.001
	Missing	1.19 (1.11-1.28)	<0.001	1.49 (1.36-1.65)	<0.001
	<20	0.90 (0.73-1.11)	0.309	0.78 (0.64-0.95)	0.014
BMI kg/m ² (ref 20-24.9)	25-29.9	1.19 (1.12-1.27)	<0.001	1.38 (1.29-1.47)	<0.001
	30-34.9	1.32 (1.24-1.41)	<0.001	1.58 (1.48-1.69)	<0.001
	35+	1.53 (1.42-1.64)	<0.001	1.83 (1.70-1.97)	<0.001
	Missing	1.09 (1.00-1.20)	0.061	1.30 (1.19-1.43)	<0.001
	1-9	0.98 (0.91-1.06)	0.673	0.72 (0.66-0.80)	<0.001
Alcohol units per week (ref 0)	10-24	0.97 (0.90-1.04)	0.393	0.79 (0.72-0.87)	<0.001
	25-42	1.06 (0.97-1.17)	0.203	0.86 (0.77-0.96)	0.007
	>42	1.07 (0.94-1.22)	0.292	0.81 (0.74-0.92)	0.002
	Missing	1.02 (0.95-1.10)	0.512	0.81 (0.74-0.87)	<0.001
Hypertension		1.37 (0.32-1.43)	<0.001	1.26 (1.21 (1.31))	<0.001
Type 1 diabetes		1.23 (0.94-1.62)	0.136	1.12 (0.86-1.46)	0.407
Type 2 diabetes		1.31 (1.24-1.39)	<0.001	1.09 (1.02-1.15)	0.005
Heart Failure		2.25 (2.11-2.40)	<0.001	2.08 (1.93-2.24)	<0.001
CVD		1.62 (1.55-1.70)	<0.001	1.30 (1.24-1.36)	<0.001
Diuretics		1.60 (1.54-1.67)	<0.001	1.59 (1.53-1.66)	<0.001
Aspirin		1.33 (1.27-1.40)	<0.001	1.24 (1.17-1.30)	<0.001
CKD (ref none)	CKD Stage 3	1.69 (1.62-1.77)	<0.001	1.71 (1.63-1.79)	<0.001
	CKD stage 4	2.08 (1.83-2.35)	<0.001	2.52 (2.20-2.90)	<0.001
	CKD stage 5	1.16 (0.93-1.46)	0.173	1.80 (1.44-2.25)	<0.001
	360-419	2.17 (1.89-2.53)	<0.001	3.23 (2.82-3.82)	<0.001
	420-479	3.16 (2.77-3.61)	<0.001	5.97 (5.15-6.93)	<0.001
Serum urate μmol/L (ref <360)	480-539	4.34 (3.79-4.95)	<0.001	9.99 (8.61-11.6)	<0.001
	>=540	6.70 (5.86-7.67)	<0.001	19.0 (16.4-22.0)	<0.001
	Missing	3.15 (2.77-3.59)	<0.001	5.62 (4.84-6.53)	<0.001
Number of flares				1.54 (1.49-1.60)	<0.001

Bold indicates significance at level of p<0.003