

Supplementary Table 4. Incidence of VHD according to SUA levels

	SUA levels (mg/dL)	No. of events/ total No.	Incidence rate (95% CI)	Absolute risk (%)	Crude	<i>p</i> value	Model 1	<i>p</i> value
					HR (95% CI)		HR (95% CI)	
All VHD	< 6.0	9,088/340,793	2.17 (2.13–2.22)	2.67	Ref		Ref	
	6.0–6.9	2,933/76,469	3.13 (3.01–3.24)	3.84	1.43 (1.37–1.49)	< 0.0001	1.14 (1.09–1.19)	< 0.0001
	7.0–7.9	1,630/32,428	4.09 (3.90–4.30)	5.03	1.84 (1.74–1.94)	< 0.0001	1.40 (1.33–1.48)	< 0.0001
	8.0–8.9	608/9,964	4.96 (4.57–5.37)	6.10	2.19 (2.02–2.38)	< 0.0001	1.63 (1.49–1.77)	< 0.0001
	9.0–9.9	191/2,368	6.54 (5.65–7.54)	8.07	2.79 (2.42–3.22)	< 0.0001	2.01 (1.74–2.32)	< 0.0001
	≥ 10.0	87/683	10.39 (8.32–12.81)	12.74	4.71 (3.81–5.82)	< 0.0001	3.46 (2.80–4.29)	< 0.0001
Mitral VHD	< 6.0	2,884/340,793	0.69 (0.67–0.72)	0.85	Ref		Ref	
	6.0–6.9	877/76,469	0.94 (0.88–1.00)	1.15	1.36 (1.26–1.46)	< 0.0001	1.13 (1.04–1.22)	< 0.0001
	7.0–7.9	450/32,428	1.14 (1.03–1.25)	1.39	1.64 (1.49–1.81)	< 0.0001	1.32 (1.19–1.47)	< 0.0001
	8.0–8.9	203/9,964	1.67 (1.45–1.92)	2.04	2.41 (2.09–2.78)	< 0.0001	1.93 (1.67–2.23)	< 0.0001
	9.0–9.9	46/2,368	1.59 (1.16–2.12)	1.94	2.29 (1.71–3.07)	< 0.0001	1.79 (1.33–2.40)	< 0.0001
	≥ 10.0	34/683	4.15 (2.88–5.80)	4.98	6.02 (4.30–8.45)	< 0.0001	4.51 (3.21–6.33)	< 0.0001
Aortic VHD	< 6.0	3,338/340,793	0.80 (0.77–0.83)	0.98	Ref		Ref	
	6.0–6.9	1,126/76,469	1.21 (1.14–1.28)	1.47	1.51 (1.41–1.61)	< 0.0001	1.12 (1.04–1.20)	< 0.0001
	7.0–7.9	685/32,428	1.73 (1.61–1.87)	2.11	2.16 (1.99–2.35)	< 0.0001	1.52 (1.40–1.66)	< 0.0001
	8.0–8.9	206/9,964	1.69 (1.47–1.94)	2.07	2.11 (1.83–2.43)	< 0.0001	1.45 (1.26–1.68)	< 0.0001
	9.0–9.9	89/2,368	3.10 (2.49–3.81)	3.76	3.87 (3.14–4.78)	< 0.0001	2.57 (2.07–3.18)	< 0.0001
	≥ 10.0	31/683	3.76 (2.56–5.35)	4.54	4.72 (3.31–6.72)	< 0.0001	3.06 (2.15–4.37)	< 0.0001
Aortic stenosis	< 6.0	2,286/340,793	0.55 (0.53–0.57)	0.67	Ref		Ref	
	6.0–6.9	774/76,469	0.83 (0.77–0.89)	1.01	1.51 (1.39–1.64)	< 0.0001	1.09 (1.00–1.19)	0.044
	7.0–7.9	499/32,428	1.26 (1.15–1.38)	1.54	2.30 (2.09–2.53)	< 0.0001	1.56 (1.41–1.72)	< 0.0001
	8.0–8.9	161/9,964	1.32 (1.12–1.54)	1.62	2.41 (2.05–2.82)	< 0.0001	1.60 (1.36–1.89)	< 0.0001
	9.0–9.9	68/2,368	2.36 (1.83–2.99)	2.87	4.30 (3.38–5.48)	< 0.0001	2.76 (2.16–3.53)	< 0.0001
	≥ 10.0	24/683	2.90 (1.86–4.31)	3.51	5.30 (3.55–7.93)	< 0.0001	3.31 (2.21–4.95)	< 0.0001

VHD, valvular heart disease; SUA, serum uric acid; HR, hazard ratio; CI, confidence interval.

Model 1: adjusted for age, sex, and race.