

Variables	(a) Any hospitalisation for fluid overload				(b) No. of hospitalisations for fluid overload				(c) Total length of stay for fluid overload			
	Principal diagnosis		Discharge diagnosis		Principal diagnosis		Discharge diagnosis		Principal diagnosis		Discharge diagnosis	
	OR† (95% CI)	P value	OR† (95% CI)	P value	IRR‡ (95% CI)	P value	IRR‡ (95% CI)	P value	IRR‡ (95% CI)	P value	IRR‡ (95% CI)	P value
Female	Reference		Reference		Reference		Reference		Reference		Reference	
Male	0.96 (0.91–1.01)	0.118	0.85 (0.82–0.87)	<0.001	1.01 (0.97–1.06)	0.61	0.9 (0.88–0.92)	<0.001	0.86 (0.85–0.87)	<0.001	0.89 (0.88–0.91)	<0.001
Age (per year increase)	1.00 (1.00–1.00)	0.075	1.01 (1.01–1.02)	<0.001	1.00 (1.00–1.00)	0.041	1.01 (1.01–1.01)	<0.001	1.01 (1.01–1.01)	<0.001	1.00 (1.00–1.00)	<0.001
Housing type	Reference		Reference		Reference		Reference		Reference		Reference	
1- and 2-room flat	Reference		Reference		Reference		Reference		Reference		Reference	
3-room flat	0.73 (0.68–0.79)	<0.001	0.79 (0.75–0.83)	<0.001	0.64 (0.60–0.68)	<0.001	0.75 (0.72–0.77)	<0.001	0.85 (0.84–0.86)	<0.001	0.71 (0.70–0.73)	<0.001
4-room flat	0.68 (0.63–0.74)	<0.001	0.77 (0.73–0.80)	<0.001	0.61 (0.58–0.65)	<0.001	0.73 (0.70–0.76)	<0.001	0.79 (0.78–0.80)	<0.001	0.65 (0.64–0.67)	<0.001
5-room and executive flats	0.63 (0.58–0.68)	<0.001	0.71 (0.67–0.75)	<0.001	0.56 (0.53–0.60)	<0.001	0.68 (0.65–0.70)	<0.001	0.75 (0.74–0.76)	<0.001	0.61 (0.60–0.63)	<0.001
Condominium (Private)	0.48 (0.42–0.55)	<0.001	0.52 (0.48–0.57)	<0.001	0.42 (0.38–0.48)	<0.001	0.50 (0.47–0.54)	<0.001	0.52 (0.51–0.53)	<0.001	0.42 (0.40–0.44)	<0.001
Landed house (Private)	0.61 (0.54–0.70)	<0.001	0.63 (0.58–0.69)	<0.001	0.52 (0.47–0.58)	<0.001	0.59 (0.55–0.63)	<0.001	0.68 (0.66–0.69)	<0.001	0.58 (0.56–0.61)	<0.001
Smoking status	Reference		Reference		Reference		Reference		Reference		Reference	
Non-smoker	Reference		Reference		Reference		Reference		Reference		Reference	
Ex-smoker	1.85 (1.69–2.03)	<0.001	1.97 (1.85–2.09)	<0.001	1.58 (1.47–1.70)	<0.001	1.55 (1.48–1.61)	<0.001	1.73 (1.70–1.75)	<0.001	1.97 (1.92–2.03)	<0.001
Active smoker	1.32 (1.21–1.43)	<0.001	1.41 (1.34–1.48)	<0.001	1.25 (1.17–1.34)	<0.001	1.30 (1.25–1.35)	<0.001	1.20 (1.18–1.21)	<0.001	1.26 (1.22–1.29)	<0.001
Unknown	0.75 (0.71–0.79)	<0.001	0.87 (0.85–0.90)	<0.001	0.77 (0.74–0.80)	<0.001	0.78 (0.76–0.79)	<0.001	1.02 (1.01–1.03)	<0.001	0.86 (0.84–0.87)	<0.001
Comorbidities and complications	Reference		Reference		Reference		Reference		Reference		Reference	
Mean Hba1c (per 1% increase)	0.96 (0.94–0.97)	<0.001	0.96 (0.95–0.97)	<0.001	0.95 (0.93–0.96)	<0.001	0.95 (0.94–0.95)	<0.001	0.93 (0.93–0.93)	<0.001	0.91 (0.91–0.92)	<0.001
Hypertension	6.16 (4.67–8.12)	<0.001	3.90 (3.45–4.41)	<0.001	6.77 (5.26–8.71)	<0.001	4.03 (3.62–4.50)	<0.001	3.57 (3.47–3.68)	<0.001	10.67 (9.43–12.06)	<0.001
Hypercholesterolaemia	0.73 (0.63–0.84)	<0.001	0.68 (0.63–0.74)	<0.001	0.72 (0.64–0.82)	<0.001	0.73 (0.68–0.78)	<0.001	0.53 (0.53–0.54)	<0.001	0.63 (0.60–0.65)	<0.001

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	OR ^a (95% CI)	P value	OR ^a (95% CI)	P value	IRR ^b (95% CI)	P value	IRR ^b (95% CI)	P value	IRR ^b (95% CI)	P value	IRR ^b (95% CI)	P value
IHD	4.79 (4.52–5.07)	<0.001	3.97 (3.84–4.11)	<0.001	5.33 (5.06–5.60)	<0.001	4.27 (4.15–4.39)	<0.001	3.50 (3.47–3.53)	<0.001	5.08 (4.98–5.17)	<0.001
AMI	1.81 (1.71–1.91)	<0.001	3.07 (2.97–3.18)	<0.001	1.74 (1.66–1.82)	<0.001	2.39 (2.33–2.45)	<0.001	2.94 (2.91–2.96)	<0.001	1.82 (1.79–1.85)	<0.001
Peripheral arterial disease	1.41 (1.31–1.51)	<0.001	1.58 (1.52–1.66)	<0.001	1.46 (1.38–1.54)	<0.001	1.58 (1.54–1.63)	<0.001	2.04 (2.02–2.06)	<0.001	1.70 (1.67–1.74)	<0.001
Ischaemic stroke	0.96 (0.90–1.02)	0.184	1.21 (1.16–1.25)	<0.001	0.99 (0.94–1.05)	0.736	1.18 (1.14–1.21)	<0.001	1.46 (1.45–1.47)	<0.001	1.08 (1.06–1.10)	<0.001
Haemorrhagic stroke	1.05 (0.90–1.22)	0.536	1.41 (1.30–1.53)	<0.001	1.15 (1.02–1.30)	0.02	1.34 (1.27–1.42)	<0.001	1.86 (1.84–1.89)	<0.001	1.17 (1.12–1.22)	<0.001
Lower extremity amputation (major)	1.00 (0.79–1.25)	0.968	1.88 (1.63–2.15)	<0.001	0.89 (0.75–1.06)	0.187	1.23 (1.14–1.33)	<0.001	2.37 (2.34–2.41)	<0.001	1.03 (0.97–1.09)	0.372
Lower extremity amputation (minor)	0.96 (0.81–1.15)	0.67	1.25 (1.12–1.39)	<0.001	0.91 (0.79–1.05)	0.197	1.05 (0.98–1.13)	0.137	1.67 (1.65–1.70)	<0.001	1.18 (1.13–1.23)	<0.001
Diabetic foot and peripheral angiopathy	0.92 (0.87–0.97)	0.002	0.88 (0.85–0.91)	<0.001	0.95 (0.91–0.99)	0.018	1.04 (1.02–1.07)	<0.001	0.87 (0.87–0.88)	<0.001	0.78 (0.77–0.79)	<0.001
Diabetic eye disease	0.78 (0.74–0.82)	<0.001	0.81 (0.78–0.83)	<0.001	0.82 (0.79–0.86)	<0.001	0.86 (0.84–0.88)	<0.001	0.88 (0.87–0.88)	<0.001	0.90 (0.88–0.91)	<0.001
CKD stage												
Stage G1	Reference		Reference		Reference		Reference		Reference		Reference	
Stage G2	1.46 (1.35–1.58)	<0.001	1.27 (1.21–1.32)	<0.001	1.44 (1.35–1.54)	<0.001	1.34 (1.30–1.39)	<0.001	1.08 (1.07–1.09)	<0.001	1.38 (1.35–1.42)	<0.001
Stage G3a	2.59 (2.37–2.83)	<0.001	1.98 (1.88–2.09)	<0.001	2.59 (2.41–2.80)	<0.001	2.15 (2.06–2.24)	<0.001	1.66 (1.64–1.68)	<0.001	2.61 (2.53–2.68)	<0.001
Stage G3b	4.40 (4.02–4.81)	<0.001	3.18 (3.02–3.35)	<0.001	4.47 (4.15–4.81)	<0.001	3.28 (3.15–3.42)	<0.001	2.58 (2.55–2.62)	<0.001	4.74 (4.61–4.88)	<0.001
Stage G4	7.17 (6.55–7.85)	<0.001	5.55 (5.26–5.86)	<0.001	6.65 (6.17–7.17)	<0.001	4.84 (4.65–5.05)	<0.001	4.12 (4.07–4.17)	<0.001	7.98 (7.75–8.21)	<0.001
Stage G5	6.48 (5.90–7.13)	<0.001	6.61 (6.26–6.99)	<0.001	5.48 (5.06–5.93)	<0.001	4.91 (4.71–5.13)	<0.001	4.00 (3.95–4.05)	<0.001	5.93 (5.75–6.11)	<0.001
^a Odds ratio												
^b Incidence rate ratio												
AMI: acute myocardial infarction; CI: confidence interval; CKD: chronic kidney disease; IHD: ischaemic heart disease; IRR: incidence rate ratio; OR: odds ratio												