

**Supplementary Table 1. Key co-morbidity covariate risks across three different re-hospitalization primary outcomes**

Elixhauser Comorbidity	—	<i>Emergency Department Re-Hospitalization</i>			<i>Any Re-Hospitalization</i>			<i>Re-Hospitalization Resulting in Death</i>		
		HR	95% CI	<i>p</i> value	HR	95% CI	<i>p</i> value	HR	95% CI	<i>p</i> value
Congestive Heart Failure		1.28	1.26 – 1.30	< 0.001	1.20	1.18 – 1.22	< 0.001	1.50	1.45 – 1.56	< 0.001
Cardiac Arrhythmias		1.30	1.26 – 1.34	< 0.001	1.29	1.26 – 1.32	< 0.001	1.38	1.27 – 1.49	< 0.001
Valvular Heart Disease		1.18	1.15 – 1.20	< 0.001	1.15	1.13 – 1.17	< 0.001	1.22	1.16 – 1.29	< 0.001
Diabetes Mellitus		1.24	1.22 – 1.26	< 0.001	1.18	1.17 – 1.19	< 0.001	1.24	1.19 – 1.26	< 0.001
Diabetes Mellitus with Chronic Complications		1.46	1.43 – 1.49	< 0.001	1.38	1.35 – 1.41	< 0.001	1.50	1.42 – 1.58	< 0.001
Hypertension		1.13	1.11 – 1.15	< 0.001	1.12	1.11 – 1.14	< 0.001	0.94	0.92 – 0.97	< 0.001
Hypertension with Chronic Complications		1.20	1.17 – 1.23	< 0.001	1.16	1.13 – 1.12	< 0.001	1.27	1.21 – 1.35	< 0.001

ESRD = End stage renal disease, HR = Hazard ratio, CKD = Chronic kidney disease. Serious Mental Illness (SMI) was defined as a history of, or current co-occurring schizophrenic, bipolar, dysthymic or major depressive disorders during index hospitalization.