

Supplementary Table 1: Administrative codes used to define comorbidities

Comorbidities	ICD	Codes
Myocardial infarction	ICD 10	I21.x, I22.x, I25.2
	ICD-9-CM	410.x, 412.x
Peripheral vascular disease	ICD 10	I70.x, I71.x, I73.1, I73.8, I73.9, I77.1, I79.0, I79.2, K55.1, K55.8, K55.9, Z95.8, Z95.9
	ICD-9-CM	093.0, 437.3, 440.x, 441.x, 443.1-443.9, 47.1, 557.1, 557.9, V43.4
Cerebrovascular disease	ICD 10	G45.x, G46.x, I60.x-I69.x, H34.0
	ICD-9-CM	362.34, 430.x-438.x
Congestive heart failure	ICD 10	I43.x, I50.x, I09.9, I11.0, I13.0, I13.2, I25.5, I42.0, I42.5-I42.9, P29.0
	ICD-9-CM	398.91, 402.01, 402.11, 402.91, 404.01, 404.03, 404.11, 404.13, 404.91, 404.93, 425.4-425.9, 428.x
Diabetes Uncomplicated	ICD 10	E10.0, E10.1, E10.6, E10.8, E10.9, E11.0, E11.1, E11.6, E11.8, E11.9, E12.0, E12.1, E12.6, E12.8, E12.9, E13.0, E13.1, E13.6, E13.8, E13.9, E14.0, E14.1, E14.6, E14.8, E14.9
	ICD-9-CM	250.0-250.3, 250.8, 250.9
Diabetes Complicated	ICD 10	E10.2-E10.5, E10.7, E11.2-E11.5, E11.7, E12.2-E12.5, E12.7, E13.2-E13.5, E13.7, E14.2-E14.5, E14.7
	ICD-9-CM	250.4-250.7
Non-dermatologic malignancy	ICD 10	C00.x-C26.x, C30.x-C34.x, C37.x-C41.x, C43.x, C45.x-C58.x, C60.x-C76.x, C81.x-C85.x, C88.x, C90.x-C97.x
	ICD-9-CM	140.x-172.x, 174.x-195.8, 200.x-208.x, 238.6

Reference:

Quan H, Sundaratajan V, Halfon P, et al. Coding algorithms for defining comorbidities in ICD-9-CM and ICD-10 administrative data. *Med Care* 2005;43(11):1130-1139.

Supplementary Table 2: Hazard ratios for death and renal outcomes amongst hospitalized subjects

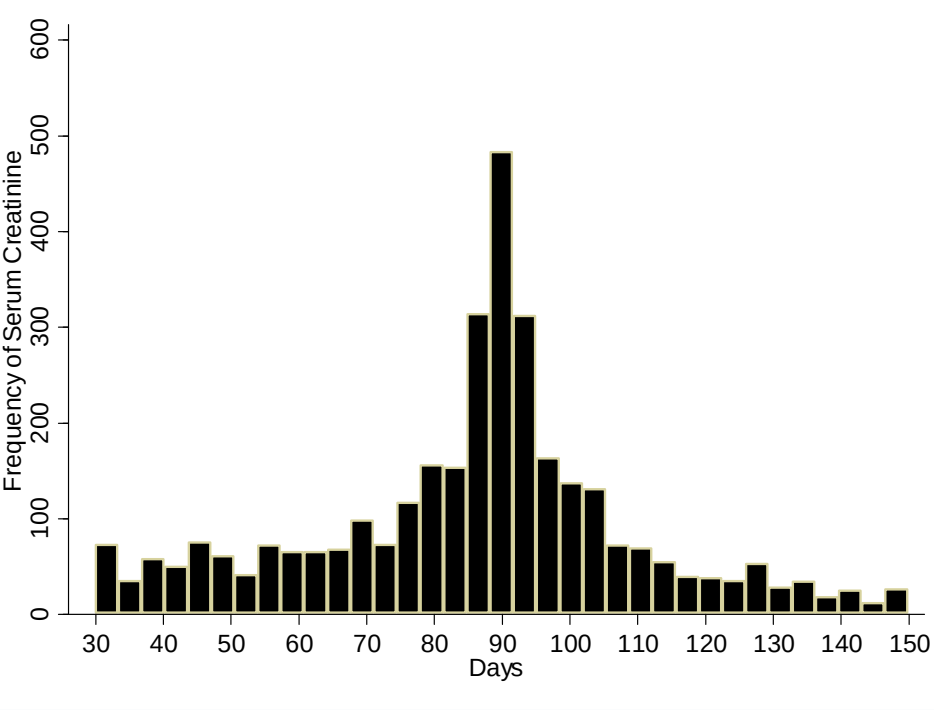
AKI Status	Number of Participants	Number of event (%)		Hazard Ratio (CI)	
		Doubling Scr/ESRD	Death	Doubling Scr/ESRD	Death
No AKI					
Crude HR	155,090	5,050(3.3)	29,220(18.8)	0.37(0.32, 0.44)	0.51(0.47, 0.55)
Fully adjusted HR				0.63(0.54, 0.74)	0.69(0.64, 0.75)
AKI recovered					
Crude HR	2,247	168(7.5)	720(32.0)	1	1
Fully adjusted HR				1	1
AKI not recovered					
Crude HR	984	267(27.1)	347(35.3)	4.70(3.87, 5.7)	1.24(1.09, 1.41)
Fully adjusted HR				4.59(3.77, 5.58)	1.28(1.13, 1.46)
AKI recovery unknown					
Crude HR	880	53(6.0)	167(19.0)	0.69(0.51, 0.94)	0.51(0.43, 0.60)
Fully adjusted HR				1.03(0.76, 1.41)	0.65(0.55, 0.77)

Adjusted factors: Age, Gender, Myocardial infarction, Peripheral vascular disease, Cerebrovascular disease, Congestive heart failure, Diabetes Uncomplicated, Diabetes Complicated, Non-dermatologic malignancy, baseline eGFR (by 5 ml/min/1.73 m² increments), requirement for acute dialysis, primary diagnostic code for hospitalization, CIHI Resource intensity weight.

Supplementary Table 3: KDIGO AKI stage 1 and recovery within 30 days

Recovery definition	Subjects with AKI 1 who recovered (%)
5%	2364(39.3)
10%	2830(47.1)
15%	3270(54.4)
20%	3678(61.2)
25%	4038(67.2)
30%	4374(72.8)
35%	4653(77.4)
40%	4949(82.3)
45%	5188(86.3)
50%	5372(89.4)
Total	6,012

Supplementary Figure 1: Distribution of serum creatinines drawn during recovery assessment period (30 to 150 days after AKI event)



min	max	p25	p50	p75
30	150	76	90	98