

Supplemental Table 1: Sensitivity analysis for log transformation of costs (95% C.I.)*

Time period		No AKI	AKIN 1	AKIN 2	AKIN 3 without dialysis	AKIN 3 with dialysis
1) Index hospitalization	Number of subjects (%)	206650 (86.1)	25495 (10.6)	4598 (1.9)	2493 (1.0)	670 (0.3)
	Cost (\$)	8647 (8609, 8685)	12751 (12569, 12934)	15266 (14780, 15752)	14880 (14161, 15600)	33393 (30725, 36062)
			+4104	+6619	+6233	+24747
	Incremental cost (\$)°		(3918, 4291)	(6132, 7107)	(5513, 6954)	(22078, 27415)
2) Admission to assessment of kidney recovery or 90 days ¹	Number of subjects (%)	206501 (86.1)	25482 (10.6)	4595 (1.9)	2491 (1.0)	670 (0.3)
	Cost (\$)	14491 (14486, 14495)	20264 (20245, 20282)	22737 (22689, 22786)	22093 (22024, 22163)	46602 (46363, 46840)
			+5773	+8246	+7603	+32111
	Incremental cost (\$)°		(5754, 5792)	(8198, 8295)	(7533, 7672)	(31872, 32350)
4) Admission to 1 year ²	Number of subjects (%)	205396 (86.1)	25367 (10.6)	4586 (1.9)	2483 (1.0)	668 (0.3)
	Cost (\$)	20739 (20732, 20746)	28308 (28283, 28334)	30175 (30102, 30248)	28439 (28353, 28525)	52257 (51961, 52553)
			+7569	+9436	+7700	+31518
	Incremental cost (\$)°		(7559, 7579)	(9409, 9463)	(7627, 7773)	(31432, 31604)
		AKIN 1-3 without dialysis			AKIN 3 with dialysis	
		No AKI	Recovered	Not recovered	Recovered	Not recovered
3) Assessment of kidney recovery or 90 days to 1 year ³	Number of subjects (%)	191921 (88.2)	12558 (5.8)	4134 (1.9)	181 (0.1)	72 (0.03)
	Cost (\$)	6407 (6402, 6413)	12259 (12224, 12294)	15983 (15907, 16059)	11832 (11488, 12177)	19172 (14472, 23872)
			+5852	+9575	+5425	+12765
	Incremental cost (\$)°		(5816, 5887)	(9499, 9651)	(5080, 5769)	(8065, 17464)

°all incremental costs are compared with no AKI

Note: AKI = acute kidney injury, C.I. = confidence interval, AKIN = Acute Kidney Injury Network

1. 167 (0.1%) patients with out-migration during this period were excluded from analysis

2. 1,406 (0.6%) out-migrated subjects during the 1-year follow up were excluded from analysis

3. 20,957 (8.7%) subjects died between admission and recovery of renal function, and 1,406 (0.6%) subjects out-migrated and were excluded from analysis

*adjusted for age, gender, Charlson comorbidities (14 variables), hospitalization primary diagnosis (case mix group including 10 variables), baseline eGFR, and albuminuria.

All costs are in Canadian dollars

Supplemental Table 2: Sensitivity analysis for costs in subjects surviving all time periods (95% C.I.)*

		no AKI	AKIN 1	AKIN 2	AKIN 3 without dialysis	AKIN 3 with dialysis
2) Admission to assessment of kidney recovery or 90 days ¹	Number of subjects (%)	206501(86.2)	25482 (10.6)	4595 (1.9)	2491 (1.0)	670 (0.3)
	Cost (\$)	14421 (14398, 14444)	19121 (19091, 19152)	23673 (23635, 23711)	24910 (24870, 24950)	35972 (35915, 36029)
	Incremental cost (\$)°		+4700 (4662, 4738)	+9252 (9208, 9296)	+10489 (10443, 10535)	+21551 (21489, 21612)
4) Admission to 1 year ²	Number of subjects (%)	205396 (86.2)	25367 (10.6)	4586 (1.9)	2483 (1.0)	668 (0.3)
	Cost (\$)	19701 (19668, 19734)	24968 (24926, 25010)	29899 (29848, 29949)	30369 (30318, 30420)	38020 (37956, 38084)
	Incremental cost (\$)°		+5267 (5220, 5314)	+10198 (10144, 10251)	+10668 (10607, 10728)	+18319 (18258, 18380)
			AKIN 1-3 without dialysis		AKIN 3 with dialysis	
		No AKI	Recovered	Not recovered	Recovered	Not recovered
3) Assessment of kidney recovery or 90 days to 1 year ³	Number of subjects (%)	191921 (88.2)	12558 (5.8)	4134 (1.9)	181 (0.1)	72 (0.03)
	Cost (\$)	8265 (8241, 8290)	11937 (11902, 11972)	17805 (17752, 17857)	11452 (11419, 11486)	26271 (26194, 26349)
	Incremental cost (\$)°		+3671 (3629, 3714)	+9539 (9482, 9597)	+3187 (3146, 3229)	+18006 (17925, 18087)

°all incremental costs are compared with no AKI

AKI = acute kidney injury, C.I. = confidence interval, AKIN = Acute Kidney Injury Network

1. 167 (0.1%) patients with out-migration during this period were excluded from analysis

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3. 20,957 (8.7%) subjects died between admission and recovery of renal function, and 1,406 (0.6%) subjects out-migrated and were excluded from analysis

*adjusted for age, gender, Charlson comorbidities (14 variables), hospitalization primary diagnosis (case mix group including 10 variables), baseline eGFR, and albuminuria.

All costs are in Canadian dollars

Supplemental Table 3: Mortality by acute kidney injury and kidney recovery status per time periods

	Number of deaths	Number of subjects	Percentage of death
1) Index hospitalization			
No AKI	6,200	206,650	3.0
AKIN 1	2,932	25,495	11.5
AKIN 2	1,251	4,598	27.2
AKIN 3 without dialysis	838	2,493	33.6
AKIN 3 with dialysis	333	670	49.7
All subjects	11,554	239,906	4.8
2) Admission to kidney recovery or 90 days			
No AKI	13,475	206,501	6.5
AKIN 1	4,541	25,482	17.8
AKIN 2	1,571	4,595	34.2
AKIN 3 without dialysis	1,013	2,491	40.7
AKIN 3 with dialysis	357	670	53.3
All subjects	20,957	239,739	8.7
4) Admission to 1 year			
No AKI	24,004	205,396	11.7
AKIN 1	6,456	25,367	25.5
AKIN 2	1,899	4,586	41.4
AKIN 3 without dialysis	1,177	2,483	47.4
AKIN 3 with dialysis	379	668	56.7
All subjects	33,915	238,500	14.2
3) Kidney recovery or 90 days to 1 year			
No AKI	10,529	191,921	5.5
AKIN 1-3 without dialysis recovered	1,386	12,558	11.0
AKIN 1-3 without dialysis not recovered	671	4,134	16.2
AKIN 1-3 without dialysis unknown	350	8,619	4.1
AKIN 1-3 with dialysis recovered	7	181	3.9
AKIN 1-3 with dialysis not recovered	11	72	15.3
AKIN 1-3 with dialysis unknown	4	58	6.9
All subjects	12,958	217,543	6.0

AKI = acute kidney injury, AKIN = Acute Kidney Injury Network

Supplemental Table 4: Nephrology specific total, incremental costs and cost ratios by acute kidney injury status (95% C.I)*

Time period		No AKI	AKIN 1	AKIN 2	AKIN 3 without dialysis	AKIN 3 with dialysis
2) Admission to assessment of kidney recovery or 90 days ¹	Number of subjects (%)	206501 (86.2)	25482 (10.6)	4595 (1.9)	2491 (1.0)	670 (0.3)
	Cost (\$)	15 (14, 17)	43.9 (39, 51)	96 (74, 118)	256 (158, 354)	1967 (1547, 2386)
	Incremental cost (\$)°	-	+29 (22, 36)	+81 (59, 103)	+241 (143, 339)	+1952 (1532, 2371)
	Cost ratio*					
4) Admission to 1 year ²	Number of subjects (%)	205396 (86.2)	25367 (10.6)	4586 (1.9)	2483 (1.0)	668 (0.3)
	Cost (\$)	45 (39, 51)	133 (110, 156)	231 (168, 296)	476 (242, 709)	2767 (2095, 3439)
	Incremental cost (\$)°	-	+88.5 (64.7, 112.2)	+186.9 (122.5, 251.3)	+430.6 (197.3, 664.0)	+2721.7 (2049.6, 3393.8)
	Cost ratio*	1	2.94 (2.28, 3.78)	4.98 (2.90, 8.55)	10.49 (5.03, 21.88)	59.41 (14.79, 238.72)
		AKIN 1-3 without dialysis		AKIN 3 with dialysis		
		No AKI	Recovered	Not recovered	Recovered	Not recovered
3) Assessment of kidney recovery or 90 days to 1 year ³	Number of subjects (%)	191921 (88.2)	12558 (5.8)	4134 (1.9)	181 (0.1)	72 (0.03)
	Cost (\$)	32 (24, 41)	67 (42, 91)	586 (348, 824)	174 (-46, 392)	1434 (-185, 3054)
	Incremental cost (\$)°		+34 (8, 61)	+554 (316, 792)	+141 (-78, 361)	+1402 (-218, 3022)
	Cost ratio*	1	1.98 (1.19, 3.29)	17.12 (7.21, 40.69)	4.89 (0.09, 276.71)∇	42.22 (0.07, 24182.91)∇

°all incremental costs are compared with no AKI

*Generalized linear model (GLM) cost ratios by AKI and recovery status compared with no AKI

∇not statistically significant

Note: nephrology specific costs are not calculated over the index hospitalization episode, as many of these costs cannot be accurately separated from total hospitalization costs. As such, nephrology specific costs from admission to recovery assessment are likely to be underestimated

AKI = acute kidney injury, C.I. = confidence interval, AKIN = Acute Kidney Injury Network

1. 167 (0.1%) patients with out-migration during this period were excluded from analysis

2. 1,406 (0.6%) out-migrated subjects during the 1-year follow up were excluded from analysis

3. 20,957 (8.7%) subjects died between admission and recovery of renal function, and 1,406 (0.6%) subjects out-migrated and were excluded from analysis

*adjusted for age, gender, Charlson comorbidities (14 variables), hospitalization primary diagnosis (case mix group including 10 variables), baseline eGFR, and albuminuria.

All costs are in Canadian dollars

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Supplemental Table 5: Hospitalization costs by acute kidney injury status (95% C.I.)*

Time period		No AKI	AKIN 1	AKIN 2	AKIN 3 without dialysis	AKIN 3 with dialysis
2) Admission to assessment of kidney recovery or 90 days ¹	Number of subjects (%)	206501 (86.2)	25482 (10.6)	4595 (1.9)	2491 (1.0)	670 (0.3)
	Cost (\$)	11732 (11715, 11749)	15007 (14986, 15029)	16965 (16941, 16989)	17493 (17469, 17518)	26792 (26754, 26830)
4) Admission to 1 year ²	Number of subjects (%)	205396 (86.2)	25367 (10.6)	4586 (1.9)	2483 (1.0)	668 (0.3)
	Cost (\$)	15681 (15659, 15703)	19167 (19140, 19194)	20812 (20782, 20841)	20966 (20937, 20996)	29779 (29737, 29821)
			AKIN 1-3 without dialysis		AKIN 3 with dialysis	
		No AKI	Recovered	Not recovered	Recovered	Not recovered
3) Assessment of kidney recovery or 90 days to 1 year ³	Number of subjects (%)	191921 (88.2)	12558 (5.8)	4134 (1.9)	181 (0.1)	72 (0.03)
	Cost (\$)	4249 (4236, 4262)	6480 (6460, 6501)	8300 (8274, 8326)	6413 (6393, 6433)	8509 (8483, 8536)

Note: AKI = acute kidney injury, C.I. = confidence interval, AKIN = Acute Kidney Injury Network

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Supplemental Table 6: Physician fees during time periods by acute kidney injury status (95% C.I.)*

Time period		No AKI	AKIN 1	AKIN 2	AKIN 3 without dialysis	AKIN 3 with dialysis
2) Admission to assessment of kidney recovery or 90 days ¹	Number of subjects (%)	206501 (86.2)	25482 (10.6)	4595 (1.9)	2491 (1.0)	670 (0.3)
	Cost (\$)	2401 (2398, 2405)	2879 (2875, 2884)	2974 (2969, 2978)	2904 (2900, 2909)	5790 (5781, 5799)
4) Admission to 1 year ²	Number of subjects (%)	205396 (86.2)	25367 (10.6)	4586 (1.9)	2483 (1.0)	668 (0.3)
	Cost (\$)	3764 (3760, 3769)	4264 (4259, 4269)	4189 (4185, 4194)	3916 (3911, 3920)	6806 (6798, 6813)
			AKIN 1-3 without dialysis		AKIN 3 with dialysis	
		No AKI	Recovered	Not recovered	Recovered	Not recovered
3) Assessment of kidney recovery or 90 days to 1 year ³	Number of subjects (%)	191921 (88.2)	12558 (5.8)	4134 (1.9)	181 (0.1)	72 (0.03)
	Cost (\$)	1455 (1454, 1457)	1911 (1908, 1913)	2348 (2345, 2351)	2006 (2004, 2009)	2746 (2742, 2749)

Note: AKI = acute kidney injury, C.I. = confidence interval, AKIN = Acute Kidney Injury Network

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Supplemental Table 7: Ambulatory care costs during by acute kidney injury status (95% C.I.)*

Time period		No AKI	AKIN 1	AKIN 2	AKIN 3 without dialysis	AKIN 3 with dialysis
2) Admission to assessment of kidney recovery or 90 days ¹	Number of subjects (%)	206501 (86.2)	25482 (10.6)	4595 (1.9)	2491 (1.0)	670 (0.3)
	Cost (\$)	1313 (1311, 1315)	1363 (1361, 1364)	1311 (1309, 1312)	1323 (1322, 1325)	1370 (1368, 1372)
4) Admission to 1 year ²	Number of subjects (%)	205396 (86.1)	25367 (10.6)	4586 (1.9)	2483 (1.0)	668 (0.3)
	Cost (\$)	2569 (2566, 2572)	2633 (2630, 2636)	2401 (2398, 2404)	2322 (2319, 2324)	2269 (2267, 2272)
			AKIN 1-3 without dialysis		AKIN 3 with dialysis	
		No AKI	Recovered	Not recovered	Recovered	Not recovered
3) Assessment of kidney recovery or 90 days to 1 year ³	Number of subjects (%)	191921 (88.2)	12558 (5.8)	4134 (1.9)	181 (0.1)	72 (0.03)
	Cost (\$)	1337 (1335, 1339)	1681 (1679, 1684)	2537 (2534, 2541)	1696 (1694, 1698)	4158 (4152, 4164)

Note: AKI = acute kidney injury, C.I. = confidence interval, AKIN = Acute Kidney Injury Network

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2. 1,406 (0.6%) out-migrated subjects during the 1-year follow up were excluded from analysis

3. 20,957 (8.7%) subjects died between admission and recovery of renal function, and 1,406 (0.6%) subjects out-migrated and were excluded from analysis

*adjusted for age, gender, Charlson comorbidities (14 variables), hospitalization primary diagnosis (case mix group including 10 variables), baseline eGFR, and albuminuria.

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Supplemental Table 8: Drug costs for subjects age≥65 years by acute kidney injury status (95% C.I.)*

Time period		No AKI	AKIN 1	AKIN 2	AKIN 3 without dialysis	AKIN 3 with dialysis
	Number of subjects (%)	98455 (82.2)	16706 (13.9)	2985 (2.5)	1500 (1.3)	334 (0.3)
2) Admission to assessment of kidney recovery or 90 days ¹	Cost (\$)	714 (709, 719)	673 (660, 686)	530 (504, 556)	492 (450, 534)	415 (351, 479)
4) Admission to 1 year ²	Number of subjects (%)	98192 (82.2)	16668 (13.9)	2983 (2.5)	1498 (1.3)	334 (0.3)
	Cost (\$)	2107 (2091, 2123)	1938 (1897, 1980)	1454 (1369, 1539)	1347 (1220, 1474)	1041 (869, 1214)
			AKIN 1-3 without dialysis		AKIN 3 with dialysis	
		No AKI	Recovered	Not recovered	Recovered	Not recovered
3) Assessment of kidney recovery or 90 days to 1 year ³	Number of subjects (%)	87987 (85.1)	8272 (8.0)	2471 (2.4)	74 (0.1)	35 (0.03)
	Cost (\$)	1553 (1540, 1566)	1691 (1647, 1735)	1818 (1726, 1909)	1484 (1214, 1754)	2346 (1742, 2950)

Note: AKI = acute kidney injury, C.I. = confidence interval, AKIN = Acute Kidney Injury Network

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3. 20,957 (8.7%) subjects died between admission and recovery of renal function, and 1,406 (0.6%) subjects out-migrated and were excluded from analysis

*adjusted for age, gender, Charlson comorbidities (14 variables), hospitalization primary diagnosis (case mix group including 10 variables), baseline eGFR, and albuminuria.

N=120027 subjects were ≥65 years old at the time of index hospitalization

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Supplemental Table 9: Sensitivity analysis for earliest 2 years versus most recent 2 years of study cohort (95% C.I.)*

Time period		No AKI	AKIN 1	AKIN 2	AKIN 3 without dialysis	AKIN 3 with dialysis
1) Index hospitalization	Number of subjects in earliest 2 years (%)	55083 (86.2)	6724 (10.5)	1246 (2.0)	659 (1.0)	220 (0.3)
	Cost in earliest 2 years (\$)	9286 (9266, 9305)	11477 (11453, 11501)	13255 (13227, 13282)	13965 (13936, 13995)	21453 (21408, 21498)
	Number of subjects in recent 2 years (%)	71528 (85.6)	9433 (11.3)	1581 (1.9)	868 (1.0)	195 (0.2)
	Cost in recent 2 years (\$)	9458 (9438, 9478)	12658 (12631, 12684)	14580 (14550, 14611)	16234 (16200, 16268)	28713 (28653, 28773)
	Incremental cost from recent 2 years to earliest 2 years (\$)	+172 (145, 200)	+1181 (1145, 1216)	+1326 (1285, 1367)	+2269 (2224, 2313)	+7259 (7184, 7334)
2) Admission to assessment of kidney recovery or 90 days	Number of subjects in earliest 2 years (%)	55046 (86.2)	6722 (10.5)	1245 (2.0)	658 (1.0)	220 (0.3)
	Cost in earliest 2 years (\$)	13898 (13874, 13922)	16534 (16506, 16563)	17352 (17322, 17382)	18720 (18688, 18752)	27934 (27886, 27982)
	Number of subjects in recent 2 years (%)	71489 (85.6)	9427 (11.3)	1580 (1.9)	867 (1.0)	195 (0.2)
	Cost in recent 2 years (\$)	17067 (17038, 17097)	21621 (21583, 21658)	24325 (24283, 24367)	25609 (25565, 25653)	43883 (43807, 43958)
	Incremental cost from recent 2 years to earliest 2 years (\$)	+3170 (3132, 3208)	+5086 (5040, 5133)	+6973 (6921, 7024)	+6889 (6834, 6944)	+15949 (15859, 16039)
4) Admission to 1 year	Number of subjects in earliest 2 years (%)	54762 (86.1)	6696 (10.5)	1242 (2.0)	655 (1.0)	218 (0.3)
	Cost in earliest 2 years (\$)	20346 (20314, 20378)	22766 (22730, 22802)	22779 (22743, 22815)	23962 (23924, 24000)	32280 (32229, 32331)
	Number of subjects in recent 2 years (%)	71129 (85.5)	9388 (11.3)	1578 (1.9)	864 (1.0)	195 (0.2)
	Cost in recent 2 years (\$)	23767 (23730, 23805)	28891 (28846, 28937)	30436 (30388, 30484)	30591 (30543, 30639)	49980 (49901, 50059)
	Incremental cost from recent 2 years to earliest 2 years (\$)	+3421 (3372, 3470)	+6126 (6068, 6184)	+7657 (7597, 7717)	+6629 (6568, 6691)	+17700 (17606, 17794)

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		AKIN 1-3 without dialysis			AKIN 3 with dialysis	
		No AKI	Recovered	Not recovered	Recovered	Not recovered
3) Assessment of kidney recovery or 90 days to 1 year	Number of subjects in earliest 2 years (%)	50361 (88.5)	3244 (5.7)	1151 (2.0)	61 (0.1)	21 (0.04)
	Cost in earliest 2 years (\$)	6891 (6871, 6910)	9160 (9134, 9186)	11799 (11766, 11833)	7401 (7380, 7422)	18702 (18649, 18755)
	Number of subjects in recent 2 years (%)	67067 (87.5)	4679 (6.1)	1401 (1.8)	53 (0.1)	19 (0.02)
	Cost in recent 2 years (\$)	7162 (7141, 7182)	10038 (10010, 10067)	13832 (13793, 13872)	12823 (12787, 12860)	21389 (21328, 21449)
	Incremental cost from recent 2 years to earliest 2 years (\$)	+271 (243, 299)	+878 (840, 917)	+2033 (1981, 2084)	+5423 (5381, 5465)	+2687 (2606, 2767)

Total number subjects include in this analysis is N = 147,537, 63,932 (43%) subjects from the earliest 2 years of cohort accrual period from November 1, 2002 to October 31, 2004, and 83,605 (57%) subjects from the recent 2 years of cohort accrual period from April 1st, 2007 to March 31st, 2009.

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*adjusted for age, gender, Charlson comorbidities (14 variables), hospitalization primary diagnosis (case mix group including 10 variables), baseline eGFR, and albuminuria.

All costs are in Canadian dollars

Supplemental Table 10: Sensitivity analysis limiting the cohort to length of stay of index hospitalization ≤30 days (95% C.I.)*

Time period		No AKI	AKIN 1	AKIN 2	AKIN 3 without dialysis	AKIN 3 with dialysis
1) Index hospitalization	Number of subjects (%)	196351 (86.7)	23260 (10.3)	4118 (1.8)	2249 (1.0)	559 (0.3)
	Cost (\$)	8190 (8157, 8223)	10262 (10136, 10388)	11691 (11361, 12021)	11996 (11518, 12473.)	18777 (17070, 20484)
	Incremental cost (\$)°		+2072 (1941, 2202)	+3501 (3169, 3832)	+3806 (3327, 4284)	+10587 (8879, 12294)
2) Admission to assessment of kidney recovery or 90 days ¹	Number of subjects (%)	196207 (86.7)	23247 (10.3)	4115 (1.8)	2247 (1.0)	559 (0.3)
	Cost (\$)	14129 (14074, 14185)	17023 (16821, 17226)	18163 (17615, 18713)	18512 (17718, 19306)	28035 (25440, 30630)
	Incremental cost (\$)°		+2894 (2684, 3104)	+4034 (3482, 4586)	+4383 (3587, 5179)	+13906 (11310, 16502)
4) Admission to 1 year ²	Number of subjects (%)	195150 (86.7)	23137 (10.3)	4107 (1.8)	2239 (1.0)	557 (0.3)
	Cost (\$)	20528 (20432, 20624)	23584 (23282, 23887)	24074 (23140, 25008)	23308 (22276.8, 24338.7)	32560 (29297, 35822)
	Incremental cost (\$)°		+3056 (2920, 3192.8)	+3546 (3228, 3863)	+2780 (1841, 3719)	+12032 (10996, 13067)
			AKIN 1-3 without dialysis		AKIN 3 with dialysis	
		No AKI	Recovered	Not recovered	Recovered	Not recovered
3) Assessment of kidney recovery or 90 days to 1 year ³	Number of subjects (%)	183529 (88.7)	11202 (5.4)	3758 (1.8)	145 (0.1)	44 (0.02)
	Cost (\$)	6798 (6712, 6885)	9483 (9129, 9837)	12690 (11906, 13474)	10674 (6631, 14717)	15278 (7824, 22732)
	Incremental cost (\$)°		+2685 (2320, 3049)	+5892 (5103, 6680)	+3876 (-168, 7920)	+8480 (1025, 15934)

°all incremental costs are compared with no AKI

AKI = acute kidney injury, C.I. = confidence interval, AKIN = Acute Kidney Injury Network

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2. 1,406 (0.6%) out-migrated subjects during the 1-year follow up were excluded from analysis

3. 20,957 (8.7%) subjects died between admission and recovery of renal function, and 1,406 (0.6%) subjects out-migrated and were excluded from analysis

N = 226375 subjects had hospitalization with length of stay ≤30 days

*adjusted for age, gender, Charlson comorbidities (14 variables), hospitalization primary diagnosis (case mix group including 10 variables), baseline eGFR, and albuminuria.

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