Baseline perioperative characteristics stratified according AKI

Characteristic	N	Overall, N = 254[1]	0, N = 172[1]	1, N = 82[1]
age	254	66 (56, 72)	65 (56, 71)	66 (58, 73)
gender_1_male_2_female	254			
1		206 (81%)	140 (81%)	66 (80%)
2		48 (19%)	32 (19%)	16 (20%)
bmi	254	24.3 (22.4, 27.7)	24.0 (22.0, 26.9)	26.2 (23.1, 29.4)
dependency_0_independent_1_partially_dependent_2_totally_dependent	254			
0		247 (97%)	168 (98%)	79 (96%)
1		7 (2.8%)	4 (2.3%)	3 (3.7%)
asa_status	254			
1		1 (0.4%)	1 (0.6%)	0 (0%)
2		144 (57%)	105 (61%)	39 (48%)
3		106 (42%)	64 (37%)	42 (51%)
4		3 (1.2%)	2 (1.2%)	1 (1.2%)
chronic_steroid_0_no_1_yes	254			
0		242 (95%)	164 (95%)	78 (95%)
1		12 (4.7%)	8 (4.7%)	4 (4.9%)

Characteristic	N	Overall, N = 254[1]	0, N = 172[1]	1, N = 82[1]
diabetes_mellitus_0_no_1_yes	254			
0		209 (82%)	145 (84%)	64 (78%)
1		45 (18%)	27 (16%)	18 (22%)
hypertension_0_no_1_yes	254			
0		153 (60%)	112 (65%)	41 (50%)
1		101 (40%)	60 (35%)	41 (50%)
congestive_heart_failure_in_30_days_prior_surgery_0_no_1_yes	254			
0		253 (100%)	172 (100%)	81 (99%)
1		1 (0.4%)	0 (0%)	1 (1.2%)
preoperative_dyspnea_0_no_1_yes	254			
0		248 (98%)	168 (98%)	80 (98%)
1		6 (2.4%)	4 (2.3%)	2 (2.4%)
current_smoker_within_1_y_0_no_1_yes	254			
0		206 (81%)	133 (77%)	73 (89%)
1		48 (19%)	39 (23%)	9 (11%)
severe_copd_0_no_1_yes	254			
0		226 (89%)	156 (91%)	70 (85%)
1		28 (11%)	16 (9.3%)	12 (15%)

Characteristic	N	Overall, N = 254[1]	0, N = 172[1]	1, N = 82[1]
nsqip	254	9.00 (8.00, 11.50)	9.00 (8.00, 11.50)	10.50 (8.00, 11.50)
hematological_cancer_0_no_1_yes	254			
0		248 (98%)	169 (98%)	79 (96%)
1		6 (2.4%)	3 (1.7%)	3 (3.7%)
alohol_use_0_no_1_yes	254			
0		244 (96%)	166 (97%)	78 (95%)
1		10 (3.9%)	6 (3.5%)	4 (4.9%)
dementia_0_no_1_yes	254			
0		247 (97%)	168 (98%)	79 (96%)
1		7 (2.8%)	4 (2.3%)	3 (3.7%)
ischemic_heart_disease_history_of_mi_positive_exercise_test_current_chest_pain_use_of_nitrate_or_ecg_with_q_waves_0_no_1_yes	254			
0		225 (89%)	153 (89%)	72 (88%)
1		29 (11%)	19 (11%)	10 (12%)
cardiovascular_disease_prior_stroke_or_tia_5years_0_no_1_yes	254			
0		250 (98%)	171 (99%)	79 (96%)
1		4 (1.6%)	1 (0.6%)	3 (3.7%)
statins_0_no_1_yes	254			

Characteristic	N	Overall, N = 254[1]	0, N = 172[1]	1, N = 82[1]
0		208 (82%)	142 (83%)	66 (80%)
1		46 (18%)	30 (17%)	16 (20%)
ace_i_0_no_1_yes	254			
0		208 (82%)	146 (85%)	62 (76%)
1		46 (18%)	26 (15%)	20 (24%)
arb_0_no_1_yes	254			
0		223 (88%)	156 (91%)	67 (82%)
1		31 (12%)	16 (9.3%)	15 (18%)
beta_blockers_0_no_1_yes	254			
0		204 (80%)	137 (80%)	67 (82%)
1		50 (20%)	35 (20%)	15 (18%)
insulin_0_no_1_yes	254			
0		245 (96%)	166 (97%)	79 (96%)
1		9 (3.5%)	6 (3.5%)	3 (3.7%)
ppi_0_no_1_yes	254			
0		116 (46%)	84 (49%)	32 (39%)
1		138 (54%)	88 (51%)	50 (61%)
nsai_ds_0_no_1_yes	254			

Characteristic	N	Overall, N = 254[1]	0, N = 172[1]	1, N = 82[1]
0		219 (86%)	151 (88%)	68 (83%)
1		35 (14%)	21 (12%)	14 (17%)
baseline_serum_creatinine	254	77 (67, 87)	77 (66, 87)	78 (69, 92)
preoperative_urea	230	5.55 (4.31, 7.00)	5.60 (4.36, 6.88)	5.50 (4.07, 7.53)
e_gfr	254	90 (79, 100)	92 (81, 101)	88 (72, 98)
preop_hemoglobin	248	12.90 (11.70, 13.80)	12.80 (11.70, 13.80)	12.90 (11.80, 13.70)
preop_wbc	210	5.71 (4.48, 7.30)	5.66 (4.50, 6.98)	6.03 (4.46, 7.60)
preop_platelets	244	207 (165, 252)	205 (168, 247)	216 (164, 258)
atrial_fibrillation_0_no_1_yes	254			
0		244 (96%)	166 (97%)	78 (95%)
1		10 (3.9%)	6 (3.5%)	4 (4.9%)
fe_45_percent_0_no_1_yes	254			
0		247 (97%)	168 (98%)	79 (96%)
1		7 (2.8%)	4 (2.3%)	3 (3.7%)
carotid_stenosis_0_no_1_yes	254			

Characteristic	N	Overall, N = 254[1]	0, N = 172[1]	1, N = 82[1]
0		232 (91%)	156 (91%)	76 (93%)
1		22 (8.7%)	16 (9.3%)	6 (7.3%)
mini_invasive_surgery_2_mini_invasive_3_partially_invasive_4_totally_invasive	254			
2		39 (15%)	33 (19%)	6 (7.3%)
3		9 (3.5%)	4 (2.3%)	5 (6.1%)
4		206 (81%)	135 (78%)	71 (87%)
tri_incisional_surgery_0_no_1_yes	254			
0		241 (95%)	161 (94%)	80 (98%)
1		13 (5.1%)	11 (6.4%)	2 (2.4%)
type_of_anesthesia_1_inhaled_2_tiva_3_epidural_inhaled_4_peidural_tiva	248			
1		2 (0.8%)	0 (0%)	2 (2.5%)
2		23 (9.3%)	16 (9.5%)	7 (8.9%)
3		18 (7.3%)	9 (5.3%)	9 (11%)
4		205 (83%)	144 (85%)	61 (77%)
anesthesia_duration_h	251	6.00 (5.20, 7.20)	6.00 (5.20, 7.20)	6.05 (5.95, 7.00)
intraop_lidocaine_0_no_1_yes	248			
0		232 (94%)	156 (92%)	76 (96%)

Characteristic	N	Overall, N = 254[1]	0, N = 172[1]	1, N = 82[1]
1		16 (6.5%)	13 (7.7%)	3 (3.8%)
intraop_magnesium_0_no_1_yes	248			
0		190 (77%)	130 (77%)	60 (76%)
1		58 (23%)	39 (23%)	19 (24%)
intraop_dexamethasone_0_no_1_yes	248			
0		76 (31%)	53 (31%)	23 (29%)
1		172 (69%)	116 (69%)	56 (71%)
intraop_ranitidine_0_no_1_yes	248			
0		120 (48%)	77 (46%)	43 (54%)
1		128 (52%)	92 (54%)	36 (46%)
intraop_ppi_0_no_1_yes	247			
0		129 (52%)	92 (55%)	37 (47%)
1		118 (48%)	76 (45%)	42 (53%)
intraop_nmb_1_rocuronium_2_cisatracurium	245			
1		238 (97%)	162 (98%)	76 (96%)
2		7 (2.9%)	4 (2.4%)	3 (3.8%)
intraop_reversal_0_no_reversal_1_neostigmine_2_sugammadex	243			
0		117 (48%)	76 (46%)	41 (53%)

Characteristic	N	Overall, N = 254[1]	0, N = 172[1]	1, N = 82[1]
1		21 (8.6%)	14 (8.4%)	7 (9.1%)
2		105 (43%)	76 (46%)	29 (38%)
intraop_min_sp_o2_fi_o2	248	120 (98, 155)	120 (96, 158)	120 (107, 155)
intraop_min_sbp_mm_hg	247	100 (90, 100)	100 (90, 100)	100 (90, 110)
intraop_volume_ml	247	4,000 (3,500, 5,000)	4,000 (3,500, 5,000)	4,000 (3,500, 5,000)
intraop_colloid_0_no_1_yes	247			
0		233 (94%)	159 (95%)	74 (94%)
1		14 (5.7%)	9 (5.4%)	5 (6.3%)
intraop_blood_loss_ml	246	150 (100, 200)	100 (100, 200)	200 (100, 215)
intraop_blood_transfusions_0_no_1_yes	247			
0		233 (94%)	161 (96%)	72 (91%)
1		14 (5.7%)	7 (4.2%)	7 (8.9%)
volume_infused_ml_kg_h	247	9.26 (7.68, 10.72)	9.50 (7.67, 11.13)	8.70 (7.74, 10.15)
hb_end_surgery	241	12.00 (11.00, 13.10)	12.00 (11.10, 13.20)	12.00 (10.90, 12.80)

Characteristic	N	Overall, N = 254[1]	0, N = 172[1]	1, N = 82[1]
lactates_end_surgery	74	1.16 (0.99, 1.78)	1.10 (0.88, 2.03)	1.25 (1.06, 1.65)
intraop_vasopressors_0_no_1_yes	247			
0		231 (94%)	158 (94%)	73 (92%)
1		16 (6.5%)	10 (6.0%)	6 (7.6%)
vasopressor_max_dose	16			
0.05		3 (19%)	1 (10%)	2 (33%)
0.08		1 (6.2%)	1 (10%)	0 (0%)
0.1		4 (25%)	2 (20%)	2 (33%)
0.2		5 (31%)	4 (40%)	1 (17%)
0.3		3 (19%)	2 (20%)	1 (17%)
intraop_inotropes_0_no_1_yes	247			
0		230 (93%)	157 (93%)	73 (92%)
1		17 (6.9%)	11 (6.5%)	6 (7.6%)
inotrope_max_dose	17			
3		7 (41%)	5 (45%)	2 (33%)
4		1 (5.9%)	0 (0%)	1 (17%)
5		8 (47%)	5 (45%)	3 (50%)
6		1 (5.9%)	1 (9.1%)	0 (0%)
intraop_arrhytmya_0_no_1_yes	248			

Characteristic	N	Overall, N = 254[1]	0, N = 172[1]	1, N = 82[1]
0		242 (98%)	166 (98%)	76 (96%)
1		6 (2.4%)	3 (1.8%)	3 (3.8%)
diuresis_end_of_surgery_ml	246	500 (322, 750)	500 (340, 770)	500 (315, 700)
diuresis_endsurgery_ml_kg_h	246	1.14 (0.76, 1.75)	1.20 (0.81, 1.77)	1.01 (0.63, 1.65)
intraop_diuretics_0_no_1_yes	248			
0		223 (90%)	154 (91%)	69 (87%)
1		25 (10%)	15 (8.9%)	10 (13%)
intraop_nsai_ds_0_no_1_yes	248			
0		129 (52%)	95 (56%)	34 (43%)
1		119 (48%)	74 (44%)	45 (57%)
monitor_in_pacu_0_no_1_yes	254			
0		196 (77%)	130 (76%)	66 (80%)
1		58 (23%)	42 (24%)	16 (20%)
monitor_in_icu_0_no_1_yes	254			
0		59 (23%)	43 (25%)	16 (20%)
1		195 (77%)	129 (75%)	66 (80%)
extubation_at_end_of_surgery_0_no_1_yes	253			

Characteristic	N	Overall, N = 254[1]	0, N = 172[1]	1, N = 82[1]
0		117 (46%)	80 (47%)	37 (46%)
1		136 (54%)	92 (53%)	44 (54%)
intraop_aki_0_no_1_yes	246			
0		219 (89%)	153 (92%)	66 (84%)
1		27 (11%)	14 (8.4%)	13 (16%)
criterio_per_aki_1_scr_2_diuresis_3_both	82			
1		23 (28%)	0 (NA%)	23 (28%)
2		48 (59%)	0 (NA%)	48 (59%)
3		11 (13%)	0 (NA%)	11 (13%)
aki_stage	82			
1		60 (73%)	0 (NA%)	60 (73%)
2		19 (23%)	0 (NA%)	19 (23%)
3		3 (3.7%)	0 (NA%)	3 (3.7%)

[1]Median (IQR); n (%)

Univariate logistic regression models for AKI

Characteristic	N	OR[1]	95% CI[1]	p-value
age	254	1.02	1.00, 1.05	0.091
gender_1_male_2_female	254			
1		—	—	
2		1.06	0.53, 2.04	0.863
bmi	254	1.12	1.05, 1.20	**<0.001**
dependency_0_independent_1_partially_dependent_2_totally_dependent	254			
0		—	—	
1		1.59	0.31, 7.40	0.547
asa_status	254			
1		—	—	
2		786,753	0.00, NA	0.988
3		1,390,056	0.00, NA	0.987
4		1,059,090	0.00, NA	0.987
chronic_steroid_0_no_1_yes	254			
0		—	—	
1		1.05	0.27, 3.44	0.936
diabetes_mellitus_0_no_1_yes	254			
0		—	—	
1		1.51	0.77, 2.92	0.224
hypertension_0_no_1_yes	254			
0		—	—	
1		1.87	1.09, 3.19	**0.022**

Characteristic	N	OR[1]	95% CI[1]	p-value
congestive_heart_failure_in_30_days_prior_surgery_0_no_1_yes	254			
0		—	—	
1		4,497,864	0.00, NA	0.986
preoperative_dyspnea_0_no_1_yes	254			
0		—	—	
1		1.05	0.14, 5.50	0.956
current_smoker_within_1_y_0_no_1_yes	254			
0		—	—	
1		0.42	0.18, 0.88	**0.029**
severe_copd_0_no_1_yes	254			
0		—	—	
1		1.67	0.74, 3.70	0.208
nsqip	254	1.19	1.04, 1.36	**0.011**
hematological_cancer_0_no_1_yes	254			
0		—	—	
1		2.14	0.39, 11.8	0.358
alohol_use_0_no_1_yes	254			
0		—	—	
1		1.42	0.35, 5.11	0.596
dementia_0_no_1_yes	254			
0		—	—	
1		1.59	0.31, 7.40	0.547
ischemic_heart_disease_history_of_mi_positive_exercise_test_current_chest_pain_use_of_nitrate_or_ecg_with_q_waves_0_no_1_yes	254			

Characteristic	N	OR[1]	95% CI[1]	p-value
0		—	—	
1		1.12	0.48, 2.48	0.788
cardiovascular_disease_prior_stroke_or_tia_5years_0_no_1_yes	254			
0		—	—	
1		6.49	0.82, 132	0.108
statins_0_no_1_yes	254			
0		—	—	
1		1.15	0.57, 2.23	0.689
ace_i_0_no_1_yes	254			
0		—	—	
1		1.81	0.93, 3.48	0.075
arb_0_no_1_yes	254			
0		—	—	
1		2.18	1.01, 4.69	**0.044**
beta_blockers_0_no_1_yes	254			
0		—	—	
1		0.88	0.44, 1.69	0.700
insulin_0_no_1_yes	254			
0		—	—	
1		1.05	0.22, 4.09	0.945
ppi_0_no_1_yes	254			
0		—	—	
1		1.49	0.88, 2.56	0.143

Characteristic	N	OR[1]	95% CI[1]	p-value
nsai_ds_0_no_1_yes	254			
0		—	—	
1		1.48	0.70, 3.06	0.295
baseline_serum_creatinine	254	1.01	1.00, 1.02	0.076
preoperative_urea	230	1.01	0.88, 1.15	0.872
e_gfr	254	0.98	0.97, 1.00	**0.040**
preop_hemoglobin	248	0.94	0.79, 1.11	0.464
preop_wbc	210	1.06	0.94, 1.20	0.355
preop_platelets	244	1.00	1.00, 1.00	0.706
atrial_fibrillation_0_no_1_yes	254			
0		—	—	
1		1.42	0.35, 5.11	0.596
fe_45_percent_0_no_1_yes	254			
0		—	—	
1		1.59	0.31, 7.40	0.547
carotid_stenosis_0_no_1_yes	254			
0		—	—	
1		0.77	0.27, 1.95	0.600
mini_invasive_surgery_2_mini_invasive_3_partially_invasive_4_totally_invasive	254			
2		—	—	
3		6.88	1.44, 36.0	**0.017**
4		2.89	1.23, 7.96	**0.023**
tri_incisional_surgery_0_no_1_yes	254			

Characteristic	N	OR[1]	95% CI[1]	p-value
0		—	—	
1		0.37	0.06, 1.40	0.198
type_of_anesthesia_1_inhaled_2_tiva_3_epidural_inhaled_4_peidural_tiva	248			
1		—	—	
2		0.00		0.987
3		0.00		0.988
4		0.00		0.987
anesthesia_duration_h	251	1.00	0.82, 1.22	0.964
intraop_lidocaine_0_no_1_yes	248			
0		—	—	
1		0.47	0.11, 1.52	0.254
intraop_magnesium_0_no_1_yes	248			
0		—	—	
1		1.06	0.56, 1.96	0.866
intraop_dexamethasone_0_no_1_yes	248			
0		—	—	
1		1.11	0.62, 2.02	0.721
intraop_ranitidine_0_no_1_yes	248			
0		—	—	
1		0.70	0.41, 1.20	0.194
intraop_ppi_0_no_1_yes	247			
0		—	—	
1		1.37	0.80, 2.36	0.245

Characteristic	N	OR[1]	95% CI[1]	p-value
intraop_nmb_1_rocuronium_2_cisatracurium	245			
1		—	—	
2		1.60	0.31, 7.42	0.546
intraop_reversal_0_no_reversal_1_neostigmine_2_sugammadex	243			
0		—	—	
1		0.93	0.33, 2.42	0.880
2		0.71	0.40, 1.25	0.235
intraop_min_sp_o2_fi_o2	248	1.00	0.99, 1.01	0.809
intraop_min_sbp_mm_hg	247	1.02	0.99, 1.05	0.162
intraop_volume_ml	247	1.00	1.00, 1.00	0.559
intraop_colloid_0_no_1_yes	247			
0		—	—	
1		1.19	0.36, 3.58	0.758
intraop_blood_loss_ml	246	1.00	1.00, 1.00	0.193
intraop_blood_transfusions_0_no_1_yes	247			
0		—	—	
1		2.24	0.74, 6.76	0.146
volume_infused_ml_kg_h	247	0.96	0.87, 1.05	0.407
hb_end_surgery	241	0.92	0.76, 1.11	0.371
lactates_end_surgery	74	0.93	0.46, 1.79	0.833
intraop_vasopressors_0_no_1_yes	247			
0		—	—	
1		1.30	0.43, 3.63	0.626
vasopressor_max_dose	16	0.00	0.00, 577	0.391

Characteristic	N	OR[1]	95% CI[1]	p-value
intraop_inotropes_0_no_1_yes	247			
0		—	—	
1		1.17	0.39, 3.21	0.762
inotrope_max_dose	17	0.99	0.37, 2.65	0.977
intraop_arrhytmya_0_no_1_yes	248			
0		—	—	
1		2.18	0.40, 12.0	0.345
diuresis_end_of_surgery_ml	246	1.00	1.00, 1.00	0.141
diuresis_endsurgery_ml_kg_h	246	0.70	0.48, 0.97	**0.046**
intraop_diuretics_0_no_1_yes	248			
0		—	—	
1		1.49	0.62, 3.44	0.359
intraop_nsai_ds_0_no_1_yes	248			
0		—	—	
1		1.70	0.99, 2.93	0.054
monitor_in_pacu_0_no_1_yes	254			
0		—	—	
1		0.75	0.38, 1.41	0.385
monitor_in_icu_0_no_1_yes	254			
0		—	—	
1		1.37	0.73, 2.68	0.334
extubation_at_end_of_surgery_0_no_1_yes	253			
0		—	—	

Characteristic	N	OR[1]	95% CI[1]	p-value
1		1.03	0.61, 1.76	0.901
intraop_aki_0_no_1_yes	246			
0		—	—	
1		2.15	0.95, 4.85	0.063

[1]OR = Odds Ratio, CI = Confidence Interval

Secondary outcomes stratified per AKI

Characteristic	N	Overall, N = 254[1]	0, N = 172[1]	1, N = 82[1]	q-value[3]
persistent_aki_0_transient_aki_1_persistent_aki	80				>0.9
0		68 (85%)	0 (NA%)	68 (85%)	
1		12 (15%)	0 (NA%)	12 (15%)	
persistent_aki_stage	14				>0.9
0		1 (7.1%)	0 (NA%)	1 (7.1%)	
1		9 (64%)	0 (NA%)	9 (64%)	
2		1 (7.1%)	0 (NA%)	1 (7.1%)	
3		3 (21%)	0 (NA%)	3 (21%)	
rrt_0_no_1_yes	254				>0.9
0		252 (99%)	172 (100%)	80 (98%)	
1		2 (0.8%)	0 (0%)	2 (2.4%)	
rrt_days	2				>0.9
8		1 (50%)	0 (NA%)	1 (50%)	
9		1 (50%)	0 (NA%)	1 (50%)	
akd_0_no_1_yes	254				0.002
0		246 (97%)	172 (100%)	74 (90%)	
1		8 (3.1%)	0 (0%)	8 (9.8%)	
akd_stage	8				>0.9
1		3 (38%)	0 (NA%)	3 (38%)	
2		3 (38%)	0 (NA%)	3 (38%)	
3		2 (25%)	0 (NA%)	2 (25%)	
icu_los_days	254	1.00 (1.00, 2.00)	1.00 (1.00, 2.00)	2.00 (1.00, 3.00)	>0.9

Characteristic	N	Overall, N = 254[1]	0, N = 172[1]	1, N = 82[1]	q-value[3]
icu_death_0_no_1_yes	254				>0.9
0		253 (100%)	172 (100%)	81 (99%)	
1		1 (0.4%)	0 (0%)	1 (1.2%)	
h_los_days	254	12 (10, 14)	11 (10, 14)	12 (10, 15)	>0.9
h_death_0_no_1_yes	254				>0.9
0		252 (99%)	171 (99%)	81 (99%)	
1		2 (0.8%)	1 (0.6%)	1 (1.2%)	
readmission_0_no_1_yes	249				>0.9
0		243 (98%)	165 (97%)	78 (99%)	
1		6 (2.4%)	5 (2.9%)	1 (1.3%)	
ckd_0_no_1_yes	52				>0.9
0		50 (96%)	36 (100%)	14 (88%)	
1		2 (3.8%)	0 (0%)	2 (12%)	
ckd_stage	2				>0.9
1		1 (50%)	0 (NA%)	1 (50%)	
2		1 (50%)	0 (NA%)	1 (50%)	
macce_within_30_days_0_no_1_yes	253				0.3
0		224 (89%)	157 (92%)	67 (82%)	
1		29 (11%)	14 (8.2%)	15 (18%)	
surgical_complication_0_no_1_yes	254				>0.9
0		218 (86%)	144 (84%)	74 (90%)	
1		36 (14%)	28 (16%)	8 (9.8%)	
second_surgery_0_no_1_yes	254				>0.9

Characteristic	N	Overall, N = 254[1]	0, N = 172[1]	1, N = 82[1]	q-value[3]
0		239 (94%)	159 (92%)	80 (98%)	
1		15 (5.9%)	13 (7.6%)	2 (2.4%)	
cmv_time_h	244	0.0 (0.0, 3.2)	0.0 (0.0, 2.0)	0.0 (0.0, 4.0)	>0.9
pulmonary_complications_within_30_days_0_no_1_yes	254				>0.9
0		159 (63%)	109 (63%)	50 (61%)	
1		95 (37%)	63 (37%)	32 (39%)	
sepsis_0_no_1_yes	254				>0.9
0		209 (82%)	143 (83%)	66 (80%)	
1		45 (18%)	29 (17%)	16 (20%)	

Association between postoperative kidney events and other postoperative complications

Outcome: Macce

Characteristic	N	OR[1]	95% CI[1]	p-value
aki_0_no_1_yes	253			
0		—	—	
1		2.51	1.14, 5.55	**0.021**
criterion_aki_1_scr_2_diuresis_3_both	82			
1		—	—	
2		0.40	0.11, 1.46	0.161
3		1.06	0.19, 5.22	0.942
aki_stage	82			
1		—	—	
2		0.84	0.17, 3.09	0.800
3		2.23	0.10, 25.4	0.528
persistent_aki_0_transient_aki_1_persistent_aki	80			
0		—	—	
1		4.14	1.05, 15.8	**0.036**
persistent_aki_stage	14			
0		—	—	
1		Not applicable		
2				
3				

Characteristic	N	OR[1]	95% CI[1]	p-value
akd_0_no_1_yes	253			
0		—	—	
1		8.80	1.97, 39.4	**0.003**

[1]OR = Odds Ratio, CI = Confidence Interval

Outcome: Pulmonary complications

Characteristic	N	OR[1]	95% CI[1]	p-value
aki_0_no_1_yes	254			
0		—	—	
1		1.11	0.64, 1.90	0.712
criterion_aki_1_scr_2_diuresis_3_both	82			
1		—	—	
2		0.93	0.34, 2.65	0.895
3		1.30	0.29, 5.63	0.726
aki_stage	82			
1		—	—	
2		0.54	0.16, 1.61	0.285
3		Not applicable		
persistent_aki_0_transient_aki_1_persistent_aki	80			
0		—	—	
1		3.67	1.04, 14.9	**0.050**
persistent_aki_stage	14			

Characteristic	N	OR[1]	95% CI[1]	p-value
0		—	—	
1		Not applicable		
2				
3				
akd_0_no_1_yes	254			
0		—	—	
1		12.6	2.19, 237	**0.019**

[1]OR = Odds Ratio, CI = Confidence Interval

Outcome: Sepsis

Characteristic	N	OR[1]	95% CI[1]	p-value
aki_0_no_1_yes	254			
0		—	—	
1		1.20	0.60, 2.33	0.605
criterion_aki_1_scr_2_diuresis_3_both	82			
1		—	—	
2		2.42	0.56, 16.9	0.285
3		8.75	1.49, 73.3	**0.023**
aki_stage	82			
1		—	—	
2		2.02	0.55, 6.90	0.266
3		11.3	0.99, 260	0.057

Characteristic	N	OR[1]	95% CI[1]	p-value
persistent_aki_0_transient_aki_1_persistent_aki	80			
0		—	—	
1		3.70	0.95, 13.9	0.051
persistent_aki_stage	14			
0		—	—	
1			Not applicable	
2				
3				
akd_0_no_1_yes	254			
0		—	—	
1		2.91	0.58, 12.3	0.154

[1]OR = Odds Ratio, CI = Confidence Interval

Outcome: Surgical complications

Characteristic	N	OR[1]	95% CI[1]	p-value
aki_0_no_1_yes	254			
0		—	—	
1		0.56	0.23, 1.23	0.168
criterion_aki_1_scr_2_diuresis_3_both	82			
1		—	—	
2		0.61	0.12, 3.31	0.536
3		0.67	0.03, 6.00	0.739

Characteristic	N	OR[1]	95% CI[1]	p-value
aki_stage	82			
1		—	—	
2		1.29	0.17, 6.63	0.770
3		5.50	0.23, 68.6	0.193
persistent_aki_0_transient_aki_1_persistent_aki	80			
0		—	—	
1		2.07	0.28, 10.5	0.412
persistent_aki_stage	14			
0		—	—	
1		Non stimabile		
2				
3				
akd_0_no_1_yes	254			
0		—	—	
1		2.08	0.30, 9.45	0.382

[1]OR = Odds Ratio, CI = Confidence Interval

Effect of postoperative kidney events on ICU and hospital length of stay

Outcome: ICU length of stay

- **aki_0_no_1_yes**:

factor	AME	lower	upper	p
aki_0_no_1_yes1	0.5895	-0.5006	1.68	0.2892

- **Criterion_aki_1_scr_2_diuresis_3_both**:

factor	AME	lower	upper	p
criterio_per_aki_1_scr_2_diuresis_3_both2	-0.1626	-1.37	1.045	0.7918
criterio_per_aki_1_scr_2_diuresis_3_both3	3.211	-0.5917	7.015	0.09792

- **aki_stage**:

factor	AME	lower	upper	p
aki_stage2	0.4184	-0.7419	1.579	0.4797
aki_stage3	12.05	-3.619	27.72	0.1317

- **persistent_aki_0_transient_aki_1_persistent_aki**:

factor	AME	lower	upper	p
persistent_aki_0_transient_aki_1_persistent_aki1	3.255	-0.1737	6.684	0.06279

- **persistent_aki_stage**:

factor	AME	lower	upper	p
persistent_aki_stage1	1.278	-0.2937	2.849	0.111
persistent_aki_stage2	5.5	-6.703	17.7	0.377
persistent_aki_stage3	13.5	-2.913	29.91	0.1069

- **akd_0_no_1_yes**:

factor	AME	lower	upper	p
akd_0_no_1_yes1	4.748	-2.749	12.25	0.2145

Outcome: Hospital length of stay

- **aki_0_no_1_yes**:

factor	AME	lower	upper	p
aki_0_no_1_yes1	-0.9414	-4.018	2.135	0.5486

- **criterion_aki_1_scr_2_diuresis_3_both**:

factor	AME	lower	upper	p
criterio_per_aki_1_scr_2_diuresis_3_both2	0.6105	-3.504	4.725	0.7712
criterio_per_aki_1_scr_2_diuresis_3_both3	3.198	-3.58	9.975	0.3551

- **aki_stage**:

factor	AME	lower	upper	p
aki_stage2	1.011	-3.127	5.148	0.6322
aki_stage3	19.13	-1.16	39.43	0.06461

- **persistent_aki_0_transient_aki_1_persistent_aki**:

factor	AME	lower	upper	p
persistent_aki_0_transient_aki_1_persistent_aki1	7.201	0.5066	13.9	0.03501

- **persistent_aki_stage**:

factor	AME	lower	upper	p
persistent_aki_stage1	2.889	-15.32	21.09	0.7558
persistent_aki_stage2	3	-23.57	29.57	0.8249
persistent_aki_stage3	19.33	-9.378	48.04	0.1869

- **akd_0_no_1_yes**:

factor	AME	lower	upper	p
akd_0_no_1_yes1	6.302	-5.38	17.98	0.2903

Difference between transient and persistent AKI

Characteristic	N	Overall, N = 80[1]	0, N = 68[1]	1, N = 12[1]	p-value[2]
Preoperative egfr	80	88 (72, 98)	88 (80, 99)	76 (62, 92)	0.091
criterion_aki_1_scr_2_diuresis_3_both	80				**0.022**
1		23 (29%)	18 (26%)	5 (42%)	
2		46 (57%)	43 (63%)	3 (25%)	
3		11 (14%)	7 (10%)	4 (33%)	
aki_stage	80				**0.003**
1		59 (74%)	51 (75%)	8 (67%)	
2		18 (22%)	17 (25%)	1 (8.3%)	
3		3 (3.8%)	0 (0%)	3 (25%)	

[1]Median (IQR); n (%)

[2]Wilcoxon rank sum test; Fisher's exact test

Multivariate logistic regression model for AKI

Variable	Units	OddsRatio	CI.95	p-value
Bmi		1.10	[1.03;1.18]	0.006751
arb_0_no_1_yes	0	Ref		
	1	2.07	[0.90;4.74]	0.086971
Totally invasive surgery_0_no_1_yes	0	Ref		
	1	3.5	[1.3;9.2]	0.011041