

APPENDIX 3

Tabulated Data of the Association Between the Adjusted OR and Immediate ICU Admission by SAS Within Each Surgical Procedure, Including Number and Percent of Patients Within Each Stratum, AUC, and 95% CI for the Association of SAS Alone with Immediate ICU Admission After Surgery

Procedure	Surgical Apgar score										
	0-4		5-6		7-8		9-10				
	No. of patients, n (%)	OR (95%)	P	No. of patients, n (%)	OR (95%)	P	No. of patients, n (%)	OR (95%)	P	AUC	95% CI
Esophagectomy	11 (7.9)	1.3 (0.3-4.7)	0.705	28 (20.0)	1.1 (0.5-2.7)	0.775	85 (60.7)	Reference	0.144	0.7503	0.73-0.77
Other esophageal ^a	2 (0.9)	—	—	21 (9.1)	—	—	114 (49.6)	—	—	—	—
Gastric bypass/gastrostomy	13 (2.3)	44.4 (6.7-295.9)	<0.001	108 (19.3)	2.8 (0.4-20.1)	0.308	298 (53.1)	Reference	—	0.7109	0.69-0.73
Pancreaticectomy/splenectomy	38 (9.3)	7.0 (2.4-20.8)	<0.001	132 (32.4)	6.8 (2.8-16.1)	<0.001	(191) 46.9	Reference	0.619	0.7496	0.73-0.77
Whipple	50 (11.2)	3.3 (1.7-6.5)	0.001	220 (49.4)	3.4 (2.1-5.6)	<0.001	166 (37.3)	Reference	0.599	0.7496	0.73-0.77
Hepatectomy	34 (9.7)	6.6 (3.0-14.6)	<0.001	125 (35.6)	3.1 (1.9-5.1)	<0.001	174 (49.6)	Reference	0.106	0.7647	0.75-0.78
Other hepatobiliary	11 (7.6)	6.9 (1.5-31.7)	0.014	38 (26.2)	2.7 (0.8-9.2)	0.111	65 (44.8)	Reference	—	0.7109	0.69-0.73
Bowel surgery	54 (3.6)	19.7 (9.9-39.2)	<0.001	299 (19.9)	3.3 (1.9-5.9)	<0.001	829 (55.0)	Reference	0.321	0.7654	0.75-0.78
Nephrectomy/adrenalectomy	20 (1.5)	22.7 (6.9-74.7)	<0.001	142 (10.8)	6.9 (3.0-16.0)	<0.001	692 (52.6)	Reference	0.069	0.7503	0.73-0.77
Cystectomy	20 (11.2)	6.4 (1.8-23.1)	0.005	95 (53.1)	3.2 (1.2-9.1)	0.025	53 (29.6)	Reference	0.972	0.7588	0.74-0.78
Prostatectomy ^a	21 (1.7)	—	—	194 (16.0)	—	—	571 (47.2)	—	—	—	—
Other urologic ^a	0 (0.0)	—	—	18 (11.5)	—	—	66 (42.0)	—	—	—	—
Gynecologic oncology	61 (6.6)	34.2 (10.7-109.0)	<0.001	187 (20.2)	5.6 (1.7-19.0)	0.005	509 (54.9)	Reference	0.795	0.7654	0.75-0.78
Major vascular	10 (9.3)	—	—	69 (63.9)	5.8 (2.1-15.8)	0.001	26 (24.1)	Reference	—	0.6754	0.65-0.70
Exploratory laparotomy	57 (9.6)	4.6 (2.3-9.4)	<0.001	195 (32.7)	1.9 (1.1-3.4)	0.029	254 (42.6)	Reference	0.091	0.7654	0.75-0.78
Laparoscopy	1 (0.5)	—	—	44 (19.8)	7.3 (0.7-72.4)	0.089	101 (45.5)	Reference	—	0.6623	0.64-0.68

OR = odds ratio; ICU = intensive care unit; SAS = surgical Apgar score; AUC = area under the curve; CI = confidence interval.

^aThe numbers of values in each cell were too small to calculate OR, AUC, and 95% CI.