

Complication	All	%	Amp	%	RR	p	Cocaine	%	RR	p
CLABSI	190	0.06	23	0.08	1.34	0.18	18	0.07	1.23	0.39
Deep SSI	427	0.13	62	0.21	1.66	<0.01	52	0.21	1.64	<0.01
DVT	2283	0.72	280	0.95	1.36	<0.01	199	0.8	1.13	0.11
EtOH										
Withdrawal	2770	0.87	206	0.7	0.78	<0.01	248	1	1.16	0.03
Cardiac Arrest	2009	0.63	173	0.59	0.92	0.29	147	0.59	0.93	0.41
CAUTI	881	0.28	115	0.39	1.46	<0.01	92	0.37	1.38	<0.01
Embolism	1063	0.33	103	0.35	1.05	0.66	99	0.4	1.21	0.07
Extremity CS	322	0.1	43	0.15	1.5	0.01	26	0.1	1.04	0.86
Intubation	3538	1.11	361	1.22	1.11	0.06	294	1.18	1.07	0.27
Kidney	1764	0.56	195	0.66	1.21	0.01	155	0.62	1.14	0.13
MI	467	0.15	26	0.09	0.58	0.01	17	0.07	0.45	<0.01
Organ Space										
SSI	298	0.09	43	0.15	1.65	<0.01	38	0.15	1.72	<0.01
Osteomyelitis	64	0.02	8	0.03	1.39	0.38	7	0.03	1.45	0.35
Other	20267	6.38	4138	14.01	2.5	<0.01	3606	14.53	2.55	<0.01
Respiratory	1356	0.43	125	0.42	0.99	0.92	117	0.47	1.11	0.26
Return to OR	1630	0.51	170	0.58	1.14	0.11	146	0.59	1.16	0.08
Sepsis	1105	0.35	131	0.44	1.31	<0.01	110	0.44	1.3	0.01
Stroke	860	0.27	75	0.25	0.93	0.56	57	0.23	0.84	0.20
Superficial SSI	350	0.11	43	0.15	1.37	0.05	44	0.18	1.7	<0.01
Pressure Ulcer	1278	0.4	114	0.39	0.96	0.64	108	0.44	1.09	0.39
Unplanned										
RICU	4291	1.35	385	1.3	0.96	0.46	358	1.44	1.07	0.19
VAP	2206	0.69	286	0.97	1.45	<0.01	245	0.99	1.47	<0.01
Mortality	11370	3.58	896	3.03	0.83	<0.01	688	2.77	0.76	<0.01

	Benzo	%	RR	p	Barb	%	RR	p	Ecsy	%	RR	p
CLABSI	12	0.05	0.89	0.70	5	0.08	1.3	0.56	3	0.08	1.31	0.64
Deep SSI	52	0.23	1.83	<0.01	12	0.19	1.39	0.26	9	0.23	1.76	0.09
DVT	195	0.87	1.23	0.01	22	0.34	0.47	<0.01	8	0.21	0.29	<0.01
EtOH												
Withdrawal	277	1.24	1.47	<0.01	56	0.87	0.99	0.97	14	0.36	0.41	<0.01
Cardiac Arrest	140	0.63	0.99	0.90	25	0.39	0.61	0.01	6	0.16	0.24	<0.01
CAUTI	100	0.45	1.69	<0.01	45	0.7	2.59	<0.01	37	0.96	3.58	<0.01
Embolism	100	0.45	1.37	<0.01	21	0.33	0.97	0.89	12	0.31	0.93	0.81
Extremity CS	35	0.16	1.61	0.01	4	0.06	0.61	0.31	1	0.03	0.25	0.14
Intubation	302	1.35	1.23	<0.01	84	1.3	1.17	0.15	45	1.17	1.05	0.74
Kidney	150	0.67	1.23	0.02	29	0.45	0.81	0.25	20	0.52	0.94	0.77
MI	24	0.11	0.71	0.11	7	0.11	0.73	0.41	0	0	0	0.02

Organ Space														
SSI	30	0.13	1.48	0.04		6	0.09	0.99	0.98	4	0.1	1.11	0.84	
Osteomyelitis	7	0.03	1.62	0.22		0	0	0	0.25	0	0	0	0.38	
Other	3793	16.95	3.04	<0.01	2726	42.2	7.49	<0.01	2574	66.93	11.87	<0.01		
Respiratory	156	0.7	1.72	<0.01	10	0.15	0.36	<0.01	2	0.05	0.12	<0.01		
Return to OR	157	0.7	1.41	<0.01	19	0.29	0.57	0.01	13	0.34	0.66	0.13		
Sepsis	112	0.5	1.49	<0.01	26	0.4	1.16	0.45	15	0.39	1.12	0.66		
Stroke	62	0.28	1.03	0.85	15	0.23	0.86	0.55	10	0.26	0.96	0.90		
Superficial SSI	40	0.18	1.7	<0.01	4	0.06	0.56	0.24	2	0.05	0.47	0.27		
Pressure Ulcer	97	0.43	1.08	0.44	11	0.17	0.42	<0.01	3	0.08	0.19	<0.01		
Unplanned														
RICU	345	1.54	1.15	0.01	95	1.47	1.09	0.40	72	1.87	1.39	0.01		
VAP	276	1.23	1.89	<0.01	63	0.98	1.42	0.01	53	1.38	2.01	<0.01		
Mortality	724	3.24	0.9	<0.01	194	3	0.84	0.01	98	2.55	0.71	<0.01		
	Mdn	%	RR	p	Opioid	%	RR	p	Oxy	%	RR	p		
CLABSI	4	0.16	2.76	0.04	8	0.04	0.58	0.13	2	0.06	0.95	0.95		
Deep SSI	3	0.12	0.91	0.87	34	0.15	1.14	0.47	4	0.11	0.85	0.74		
DVT	12	0.49	0.68	0.17	117	0.52	0.71	<0.01	13	0.37	0.51	0.01		
EtOH														
Withdrawal	29	1.18	1.36	0.10	193	0.86	0.99	0.85	34	0.97	1.12	0.53		
Cardiac Arrest	13	0.53	0.83	0.52	93	0.41	0.64	<0.01	10	0.29	0.45	0.01		
CAUTI	12	0.49	1.77	0.05	49	0.22	0.78	0.08	13	0.37	1.34	0.29		
Embolism	9	0.37	1.09	0.79	77	0.34	1.03	0.82	6	0.17	0.51	0.09		
Extremity CS	6	0.24	2.43	0.03	35	0.16	1.61	0.01	4	0.11	1.13	0.81		
Intubation	38	1.55	1.39	0.04	219	0.98	0.87	0.04	46	1.31	1.18	0.26		
Kidney	15	0.61	1.1	0.71	108	0.48	0.86	0.12	12	0.34	0.61	0.09		
MI	4	0.16	1.11	0.84	25	0.11	0.74	0.15	3	0.09	0.58	0.34		
Organ Space														
SSI	1	0.04	0.43	0.39	20	0.09	0.95	0.81	1	0.03	0.3	0.21		
Osteomyelitis	0	0	0	0.48	5	0.02	1.12	0.81	0	0	0	0.40		
Other	103	4.19	0.65	<0.01	1289	5.75	0.89	<0.01	166	4.74	0.74	<0.01		
Respiratory	10	0.41	0.95	0.88	82	0.37	0.85	0.14	6	0.17	0.4	0.02		
Return to OR	5	0.2	0.39	0.03	96	0.43	0.82	0.06	24	0.69	1.34	0.15		
Sepsis	13	0.53	1.53	0.13	74	0.33	0.94	0.64	6	0.17	0.49	0.08		
Stroke	8	0.33	1.2	0.60	43	0.19	0.69	0.02	8	0.23	0.84	0.63		
Superficial SSI	3	0.12	1.11	0.86	24	0.11	0.97	0.88	5	0.14	1.3	0.56		
Pressure Ulcer	9	0.37	0.91	0.78	49	0.22	0.52	<0.01	8	0.23	0.57	0.10		
Unplanned														
RICU	30	1.22	0.9	0.57	286	1.27	0.94	0.31	51	1.46	1.08	0.59		
VAP	20	0.81	1.17	0.48	113	0.5	0.71	<0.01	21	0.6	0.86	0.50		
Mortality	84	3.42	0.95	0.66	425	1.89	0.51	<0.01	81	2.31	0.64	<0.01		
	PCP	%	RR	p	Tricyc	%	RR	p	Cnb	%	RR	p		

CLABSI	4	0.14	2.4	0.07	2	0.13	2.11	0.28	35	0.06	1.04	0.84
Deep SSI	4	0.14	1.06	0.91	2	0.13	0.93	0.92	97	0.17	1.35	0.01
DVT	17	0.6	0.84	0.47	10	0.63	0.87	0.66	474	0.84	1.21	<0.01
EtOH												
Withdrawal	22	0.78	0.89	0.60	27	1.69	1.95	<0.01	535	0.94	1.1	0.04
Cardiac Arrest	19	0.67	1.07	0.78	6	0.38	0.59	0.20	379	0.67	1.07	0.23
CAUTI	12	0.43	1.54	0.13	9	0.56	2.04	0.03	143	0.25	0.89	0.21
Embolism	13	0.46	1.38	0.24	3	0.19	0.56	0.31	185	0.33	0.97	0.70
Extremity CS	2	0.07	0.7	0.61	3	0.19	1.86	0.28	86	0.15	1.68	<0.01
Intubation	43	1.53	1.37	0.04	27	1.69	1.52	0.03	607	1.07	0.95	0.28
Kidney	21	0.75	1.35	0.17	14	0.88	1.58	0.08	263	0.46	0.81	<0.01
MI	5	0.18	1.21	0.67	3	0.19	1.28	0.67	40	0.07	0.43	<0.01
Organ Space												
SSI	2	0.07	0.75	0.69	0	0	0	0.22	74	0.13	1.52	<0.01
Osteomyelitis	0	0	0	0.45	0	0	0	0.57	16	0.03	1.53	0.14
Other	90	3.19	0.5	<0.01	66	4.13	0.65	<0.01	2814	4.96	0.74	<0.01
Respiratory	14	0.5	1.17	0.57	9	0.56	1.32	0.40	289	0.51	1.25	<0.01
Return to OR	18	0.64	1.25	0.35	9	0.56	1.1	0.78	411	0.72	1.55	<0.01
Sepsis	16	0.57	1.64	0.05	3	0.19	0.54	0.28	207	0.37	1.06	0.44
Stroke	8	0.28	1.05	0.89	6	0.38	1.39	0.42	113	0.2	0.7	<0.01
Superficial SSI	6	0.21	1.95	0.10	0	0	0	0.18	87	0.15	1.52	<0.01
Pressure Ulcer	13	0.46	1.15	0.62	6	0.38	0.93	0.87	242	0.43	1.07	0.31
Unplanned												
RICU	30	1.06	0.79	0.19	19	1.19	0.88	0.58	640	1.13	0.81	<0.01
VAP	26	0.92	1.33	0.14	15	0.94	1.36	0.24	500	0.88	1.35	<0.01
Mortality	79	2.8	0.78	0.03	61	3.82	1.07	0.60	1635	2.88	0.77	<0.01

Supplemental Table 2. Univariate Analysis of Illicit Drug UDS with Complications. (Significant protective and harmful associations shown in blue and red, respectively). Amp: Amphetamine, Barb: Barbiturate, Ecsy: Ecstasy, Benzo: Benzodiazepine, Mdn: Methadone, Oxy: Oxycodone, PCP: Phencyclidine, Tricyc: Tricyclic Antidepressant, Cnb: Cannabinoid

CLABSI: Central Line Associated Bloodstream Infection, SSI: Surgical Site Infection, DVT: Deep Venous Thrombosis, CAUTI: Catheter Associated Urinary Tract Infection, CS: Compartment Syndrome, RICU: Return to Intensive Care Unit, VAP: Ventilator Associated Pneumonia