

Table 1a. All Control vs. All w/ OSA (Demographics)						
		Control n = 15,458		OSA n = 15,458		p-value
Age Range	≤44	1,689	10.9%	1,689	10.9%	1.00
	45-54	4,139	26.8%	4,139	26.8%	1.00
	55-64	5,235	33.9%	5,235	33.9%	1.00
	65-74	3,562	23.0%	3,562	23.0%	1.00
	>75	833	5.4%	833	5.4%	1.00
Gender (Female)		7,880	51.0%	51.0	51.0%	1.00
CKD		1,217	7.9%	1,217	7.9%	1.00
CPulmD		2,384	15.4%	2,384	15.4%	1.00
DM		4,367	28.3%	4,367	28.3%	1.00
CAD		3,107	20.1%	3,107	20.1%	1.00
Smoke		3,550	23.0%	3,550	23.0%	1.00
CHF		1,064	6.9%	1,064	6.9%	1.00
HLD		7,422	48.0%	7,422	48.0%	1.00
PVD		1,362	8.8%	1,362	8.8%	1.00
HTN		8,220	53.2%	8,220	53.2%	1.00
DEPRESSION		4,478	29.0%	4,478	29.0%	1.00
<i>BMI, Body Mass Index; PVD, Peripheral Vascular Disease; COPD, Chronic Obstructive Pulmonary Disease</i>						

Table 1b. All Control vs. All w/ OSA (Outcomes 90 days)						
	Control n = 15,458		OSA n = 15,458		Adjusted OR (95% CI)	p-value
Major Complications	736	4.8	715	4.6	0.87 (0.74-1.03)	0.123
Minor Complications	1308	8.5	1263	8.2	0.89 (0.79-1.01)	0.080
Intubation	120	0.8	109	0.7	0.81 (0.64-1.23)	0.327
Aspiration	127	0.8	130	0.8	1.15 (0.77-1.49)	0.488
Dysphagia	1052	6.8	1064	6.9	0.93 (0.82-1.06)	0.328
PE	155	1.0	145	0.9	0.88 (0.62-1.27)	0.508
PNA	315	2.0	320	2.1	1.08 (0.83-1.41)	0.551
CVA	185	1.2	160	1.0	0.91 (0.65-1.27)	0.193
DVT	159	1.0	150	1.0	0.81 (0.58-1.16)	0.253
Transfusion	71	0.5	76	0.5	0.86 (0.52-1.46)	0.572
AKI	424	2.7	398	2.6	0.83-0.67-1.03)	0.092
UTI	505	3.3	465	3.0	0.86 (0.71-1.04)	0.203
Wound Complications	346	2.2	350	2.3	1.08 (0.85-1.37)	0.504
Sepsis	106	0.7	92	0.6	0.88 (0.51-1.45)	0.354
Admission	1589	10.3	1644	10.6	0.97 (0.87-1.08)	0.586

Surgical Site Infection	654	4.2	602	3.9	0.95 (0.80-1.12)	0.560
MI	77	0.5	83	0.5	1.13 (0.67-2.05)	0.646
Reoperation (1-Year)	386	2.5	382	2.5	0.99 (0.80-1.22)	0.943
Reoperation (2-Year)	585	3.8	576	3.7	0.97 (0.82-1.16)	0.804
Emergency department visit	2084	13.5	2068	13.4	0.92 (0.83-1.02)	0.150
PE, Pulmonary embolism; PNA, pneumonia; CVA, Cerebrovascular accident; AKI, acute kidney injury; UTI, urinary tract infection; DVT, deep vein thrombosis; MI, myocardial infarction <i>Bolded variables indicate significance with <math>P &lt; .0029</math> (Bonferroni Correction)</i>						

Table 2a. All Treated OSA vs. Untreated OSA (Demographics)						
		Treated n = 11,252		Untreated n = 11,252		p-value
Age Range	<44	998	8.9%	998	8.9%	1.00
	45-54	2949	26.2%	2949	26.2%	1.00
	55-64	4269	37.9%	4269	37.9%	1.00
	65-74	2568	22.8%	2568	22.8%	1.00
	>75	468	4.2%	468	4.2%	1.00
Gender (Female)		4890	43.5%	4890	43.5%	1.00
Comorbidities						
CKD		998	8.9%	998	8.9%	1.00
CPulmD		2949	26.2%	2949	26.2%	1.00
DM		4269	37.9%	4269	37.9%	1.00
CAD		2568	22.8%	2568	22.8%	1.00
Smoke		468	4.2%	468	4.2%	1.00
CHF		4890	43.5%	4890	43.5%	1.00
HLD		998	8.9%	998	8.9%	1.00
PVD		2949	26.2%	2949	26.2%	1.00
HTN		4269	37.9%	4269	37.9%	1.00
DEPRESSION		2568	22.8%	2568	22.8%	1.00
<i>BMI, Body Mass Index; PVD, Peripheral Vascular Disease; COPD, Chronic Obstructive Pulmonary Disease</i>						

Table 2b. All Treated OSA vs. Untreated OSA (Outcomes)						
	Treated n = 11,252		Untreated n = 11,252		Adjusted OR (95% CI)	p-value
Major Complications	400	3.6%	470	4.2%	1.12 (0.99-1.27)	0.055
Minor Complications	<b>740</b>	<b>6.6%</b>	<b>889</b>	<b>7.9%</b>	<b>1.22 (1.10-1.35)</b>	<b>&lt;0.001</b>
Intubation	71	0.6%	93	0.8%	1.31 (0.96-1.80)	0.081
Aspiration	59	0.5%	82	0.7%	1.39 (0.99-1.96)	0.052
Dysphagia	673	6.0%	732	6.5%	1.09 (0.98-1.21)	0.107
PE	119	1.1%	98	0.9%	0.81 (0.62-1.06)	0.138
PNA	<b>150</b>	<b>1.3%</b>	<b>217</b>	<b>1.9%</b>	<b>1.45 (1.17-1.80)</b>	<b>&lt;0.001</b>
CVA	89	0.8%	91	0.8%	1.01 (0.75-1.36)	0.929
DVT	<b>84</b>	<b>0.7%</b>	<b>122</b>	<b>1.1%</b>	<b>1.45 (1.10-1.93)</b>	<b>0.008</b>
Transfusion	45	0.4%	60	0.5%	1.34 (0.91-1.99)	0.137
AKI	252	2.2%	269	2.4%	1.06 (0.89-1.27)	0.45
UTI	<b>255</b>	<b>2.3%</b>	<b>311</b>	<b>2.8%</b>	<b>1.23 (1.03-1.45)</b>	<b>0.017</b>
Wound Complications	<b>195</b>	<b>1.7%</b>	<b>263</b>	<b>2.3%</b>	<b>1.35 (1.12-1.63)</b>	<b>0.001</b>
Sepsis	<b>52</b>	<b>0.5%</b>	<b>78</b>	<b>0.7%</b>	<b>1.50 (1.05-2.15)</b>	<b>0.023</b>
Admission	1194	10.6%	1270	11.3%	1.07 (0.98-1.16)	0.102

Surgical Site Infection	<b>355</b>	<b>3.2%</b>	<b>504</b>	<b>4.5%</b>	<b>1.44 (1.25-1.66)</b>	<b>&lt;0.001</b>
MI	44	0.4%	59	0.5%	1.13 (0.79-1.61)	0.483
Reoperation (1-Year)	294	2.6%	279	2.5%	0.94 (0.80-1.11)	0.53
Reoperation (2-Year)	424	3.8%	411	3.7%	0.96 (0.84-1.11)	0.642
Emergency department visit	1243	11.0%	1326	11.8%	1.07 (0.99-1.17)	0.083
PE, Pulmonary embolism; PNA, pneumonia; CVA, Cerebrovascular accident; AKI, acute kidney injury; UTI, urinary tract infection; DVT, deep vein thrombosis; MI, myocardial infarction <i>Bolded variables indicate significance with P &lt;.0029 (Bonferroni Correction)</i>						

Table 3a. Non-Obese Treated OSA vs. Untreated OSA (Demographics)						
		Treated n = 9,924		Untreated n = 9,924		p-value
Age Range	<44	848	8.5%	848	8.5%	1.00
	45-54	2541	25.6%	2541	25.6%	1.00
	55-64	3740	37.7%	3740	37.7%	1.00
	65-74	2362	23.8%	2362	23.8%	1.00
	>75	433	4.4%	433	4.4%	1.00
Gender (Female)		4221	42.5%	4221	24.5%	1.00
Comorbidities						
CKD		444	4.5%	444	4.5%	1.00
CPulmD		994	10.0%	994	10.0%	1.00
DM		2303	23.2%	2303	23.2%	1.00
CAD		1522	15.3%	1522	15.3%	1.00
Smoke		1671	16.8%	1671	16.8%	1.00
CHF		319	3.2%	319	3.2%	1.00
HLD		4262	42.9%	4262	42.9%	1.00
PVD		497	5.0%	497	5.0%	1.00
HTN		4624	46.6%	4624	46.6%	1.00
DEPRESSION		2263	22.8%	2263	22.8%	1.00
<i>BMI, Body Mass Index; PVD, Peripheral Vascular Disease; COPD, Chronic Obstructive Pulmonary Disease</i>						

Table 3b. Non-Obese Treated OSA vs. Untreated OSA (Outcomes)							
		Treated n = 9,924		Untreated n = 9,924		Adjusted OR (95% CI)	p-value
Major Complications		<b>353</b>	<b>3.6%</b>	<b>435</b>	<b>4.4%</b>	<b>1.24 (1.07-1.43)</b>	<b>0.003</b>
Minor Complications		<b>648</b>	<b>6.5%</b>	<b>777</b>	<b>7.8%</b>	<b>1.21 (1.09-1.35)</b>	<b>&lt;0.001</b>
Intubation		60	0.6%	68	0.7%	1.13 (0.80-1.61)	0.477
Aspiration		54	0.5%	75	0.8%	1.39 (0.98-1.98)	0.064
Dysphagia		600	6.0%	640	6.4%	1.07 (0.95-1.20)	0.244
PE		100	1.0%	89	0.9%	0.88 (0.65-1.17)	0.387
PNA		<b>138</b>	<b>1.4%</b>	<b>192</b>	<b>1.9%</b>	<b>1.40 (1.12-1.75)</b>	<b>0.002</b>
CVA		80	0.8%	98	1.0%	1.21 (1.01-1.64)	0.193
DVT		<b>71</b>	<b>0.7%</b>	<b>100</b>	<b>1.0%</b>	<b>1.40 (1.03-1.92)</b>	<b>0.028</b>
Transfusion		39	0.4%	43	0.4%	1.11 (0.71-1.72)	0.634
AKI		217	2.2%	245	2.5%	1.13 (0.93-1.36)	0.19
UTI		227	2.3%	266	2.7%	1.17 (0.92-1.41)	0.077
Wound Complications		<b>179</b>	<b>1.8%</b>	<b>230</b>	<b>2.3%</b>	<b>1.28 (1.05-1.56)</b>	<b>0.013</b>
Sepsis		43	0.4%	63	0.6%	1.47 (0.95-2.19)	0.051
Admission		999	10.1%	1070	10.8%	1.07 (0.98-1.18)	0.107

Surgical Site Infection	<b>307</b>	<b>3.1%</b>	<b>408</b>	<b>4.1%</b>	<b>1.45 (1.25-1.69)</b>	<b>&lt;0.001</b>
MI	38	0.4%	57	0.6%	1.48 (0.98-2.25)	0.063
Reoperation (1-Year)	270	2.7%	232	2.3%	0.85 (0.71-1.01)	0.079
Reoperation (2-Year)	389	3.9%	351	3.5%	0.89 (0.77-1.03)	0.137
Emergency department visit	1108	11.2%	1136	11.4%	1.02 (0.93-1.12)	0.561
PE, Pulmonary embolism; PNA, pneumonia; CVA, Cerebrovascular accident; AKI, acute kidney injury; UTI, urinary tract infection; DVT, deep vein thrombosis; MI, myocardial infarction <i>Bolded variables indicate significance with P &lt;.0029 (Bonferroni Correction)</i>						

<b>Table 4a. OSA With Obesity Treated vs. OSA With Obesity Untreated (Demographics)</b>						
		Treated n = 3,001		Untreated n = 3,001		p-value
Age Range	<44	241	8.0%	241	8.0%	1.00
	45-54	815	27.2%	815	27.2%	1.00
	55-64	1167	38.9%	1167	38.9%	1.00
	65-74	654	21.8%	654	21.8%	1.00
	>75	124	4.1%	124	4.1%	1.00
Gender (Female)		1503	50.1%	1503	50.1%	1.00
<b>Comorbidities</b>						
CKD		100	3.3%	100	3.3%	1.00
CPulmD		292	9.7%	292	9.7%	1.00
DM		646	21.5%	646	21.5%	1.00
CAD		319	10.6%	319	10.6%	1.00
Smoke		395	13.2%	395	13.2%	1.00
CHF		77	2.6%	77	2.6%	1.00
HLD		960	32.0%	960	32.0%	1.00
PVD		109	3.6%	109	3.6%	1.00
HTN		1074	35.8%	1074	35.8%	1.00
DEPRESSION		618	20.6%	618	20.6%	1.00
<i>BMI, Body Mass Index; PVD, Peripheral Vascular Disease; COPD, Chronic Obstructive Pulmonary Disease</i>						

<b>Table 4b. OSA With Obesity Treated vs. OSA With Obesity Untreated (Outcomes)</b>						
	Treated n = 3,001		Untreated n = 3,001		Adjusted OR (95% CI)	p-value
Major Complications	93	3.1%	98	3.3%	0.94 (0.70-1.26)	0.716
Minor Complications	194	6.5%	224	7.5%	1.17 (0.95-1.43)	0.12
Intubation	29	1.0%	25	0.8%	0.85 (0.49-1.47)	0.584
Aspiration	22	0.7%	26	0.9%	1.18 (0.66-2.11)	0.562
Dysphagia	208	6.9%	221	7.4%	1.06 (0.87-1.30)	0.511
PE	45	1.5%	30	1.0%	0.66 (0.41-1.05)	0.083
PNA	26	0.9%	29	1.0%	1.11 (0.65-1.92)	0.683
CVA	15	0.5%	21	0.7%	0.93 (0.73-2.85)	0.299
DVT	22	0.7%	26	0.9%	1.19 (0.66-2.14)	0.552
Transfusion	9	0.3%	114	3.8%	1.57 (0.68-3.825)	0.295
AKI	93	3.1%	104	3.5%	1.13 (0.84-1.50)	0.401
UTI	<b>45</b>	<b>1.5%</b>	<b>77</b>	<b>2.6%</b>	<b>1.76 (1.21-2.60)</b>	<b>0.003</b>
Wound Complications	46	1.5%	43	1.4%	0.93 (0.60-1.43)	0.756
Sepsis	11	0.4%	16	0.5%	1.47 (0.68-3.30)	0.33

Admission	422	14.1%	420	14.0%	0.99 (0.86-1.15)	0.961
Surgical Site Infection	67	2.2%	82	2.7%	1.23 (1.01-1.72)	0.218
MI	9	0.3%	11	0.4%	0.17 (0.47-2.96)	0.725
Reoperation (1-Year)	93	3.1%	98	3.3%	0.94 (0.70-1.26)	0.716
Reoperation (2-Year)	194	6.5%	224	7.5%	1.17 (0.95-1.43)	0.12
Emergency department visit	255	8.5%	260	8.7%	1.02 (0.83-1.24)	0.839
PE, Pulmonary embolism; PNA, pneumonia; CVA, Cerebrovascular accident; AKI, acute kidney injury; UTI, urinary tract infection; DVT, deep vein thrombosis; MI, myocardial infarction <i>Bolded variables indicate significance with P &lt;.0029 (Bonferroni Correction)</i>						