CMC Analysis Tables for Abstract

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Table 1: Complications profile of 3344 patients from 2006-2015

Complications Distribution (30 Days Prospective)	Number	%
Wound complications		
Superficial infection	18	0.54
Deep infection	2	0.06
Dehiscence	2	0.06
Organ Space SSI	0	0
Respiratory complications		
Pneumonia	2	0.06
Pulmonary embolism	1	0.03
Re-intubation	1	0.03
Ventilator >48h	1	0.03
Cardiac complications		
Cardiac arrest	0	0
Myocardial infarction	2	0.06
Renal complications		
Acute renal failure	0	0
UTI	9	0.27
Neurologic complications		
CVA	1	0.03
Coma	0	0
Peripheral nerve injuries	0	0
Hematologic complications		
DVT	0	0
Systemic complications		
Sepsis	0	0
Septic shock	0	0
Clostridium Difficile Colitis	0	0
Return to operation room	5	0.15
Readmission	9	0.27
Blood transfusion	0	0
Death	1	0.03
Total overall number of complications	54	-
Total number of patients with a complication	45	1.3

Table 2: Analysis of demographic variables v. complications

Demographics	Patients without complications N=3,299	Patients with complications N=45	P Value
Age			0.15
Mean (standard deviation)	62(9)	65(11)	
Age group: 60 plus(%)			0.54
No	1435(98.8)	17(1.2)	
Yes	1864(98.5)	28(1.5)	
Age group: 65 plus(%)			**0.09**
No	2125(98.9)	23(1.1)	
Yes	1174(98.2)	22(1.8)	
Sex(%)			0.38
Male	785(99.0)	8(1.0)	
Female	2512(98.5)	37(1.5)	
Race(%)			0.55
White	2701(97.8)	35(2.2)	
Black or African American	75(97.4)	2(2.6)	
Asian	28(100)	0(0)	
Other/Unknown	495(98.4)	8(1.6)	
Ethnicity Hispanic(%)			1.00
No	2683(98.7)	34(1.3)	
Yes	96(99.0)	1(1.0)	
Body Mass Index			0.10
Underweight (≤ 18.5)	60(98.4)	1(1.6)	
Normal (18.5-25)	710(98.2)	13(1.8)	
Overweight (25-30)	1088(99.4)	7(0.6)	
Obese (≥ 30)	1441(98.4)	24(1.6)	
Smoker(%)			0.52
Yes	461(98.3)	8(1.7)	
No	2838(98.7)	37(1.3)	
Alcohol use(%)			1.00
Yes	31(96.8)	1(3.2)	
No	790(98.2)	14(1.8)	
Functional Status (%)			0.25
Independent	3251(98.7)	44(1.3)	
Partially Dependent	16(94.1)	1(5.9)	

Table 3: Analysis of comorbidities v.complications

Comorbidities	Patients without complications	Patients with complications	P value
ASA Classification(%)			**0.04**
1-No disturb	211(99.5)	1(0.5)	
2-Mild disturb	2073(98.9)	24(1.1)	
3-Severe disturb	982(98.2)	18(1.8)	
4-Life threat	31(94.0)	2(6.0)	
Diabetes requiring insulin use(%)			**0.05**
No	2961(98.8)	37(1.2)	
Insulin	110(95.7)	5(4.3)	
Oral	17(100)	0(0)	
Non-insulin	211(98.6)	3(1.4)	
Hypertension requiring medication(%)			0.45
No	1740(98.8)	21(1.2)	
Yes	1559(98.5)	24(1.5)	
Peripheral vascular disease(%)			1.00
No	814(98.2)	15(1.8)	
Yes	7(100)	0(0)	
Previous cardiac surgery(%)			0.31
No	802(98.3)	14(1.7)	
Yes	19(95.0)	1(5.0)	
History of angina(%)			1.00
No	819(98.2)	15(1.8)	
Yes	2(100)	0(0)	
Congestive heart failure(%)			1.00
No	3297(98.7)	45(1.3)	
Yes	2(100)	0(0)	
Cerebrovascular accident or transient ischemic attack(%)			1.00
No	821(98.2)	15(1.8)	
Yes	48(98.0)	1(2.0)	
Bleeding disorder(%)			0.22
No	3237(98.7)	43(1.3)	
Yes	62(96.9)	2(3.1)	
Steroid use(%)			0.19
No	3192(98.7)	42(1.3)	
Yes	107(97.3)	3(2.7)	
Dialysis use(%)			**0.004**
No	3293(98.7)	43(1.3)	
Yes	6(75.0)	2(25.0)	
Chemotherapy or radiation therapy(%)			1.00
No	821(98.2)	15(1.8)	

Table 4: Analysis of operative data v. complications

Operative variables	Patients without complications	Patients with complications	P value
Wound Classification(%)			1.00
Clean	3281(98.6)	45(1.6)	
Not clean	18(100)	0(0)	
Wound Closure(%)			1.00
All layers fully closed	1537(98.3)	26(1.7)	
Not fully closed	2(100)	0(0)	
Surgical time			0.95
Mean (standard deviation)	76(38)	75(36)	
Anesthesia(%)			0.87
General	2268(98.6)	32(1.6)	
Other	1024(98.7)	13(1.3)	
Anesthesia time			0.23
Mean (standard deviation)	115(54)	105(35)	
Resident involvement(%)			0.41
No resident	582(98.5)	9(1.5)	
Other	238(97.5)	6(2.5)	
Inpatient vs. outpatient(%)			1.00
Inpatient	83(98.8)	1(1.2)	
Outpatient	3208(98.4)	52(1.6)	
Previous surgery within 30 days(%)			1.00
No	822(98.2)	15(1.8)	
Yes	2(100)	0(0)	
Days from hospital admission to operation			0.17
Mean (standard deviation)	0.003(0.13)	0(0)	

Table 4:Analysis of comorbidities v.complications (cont.)

Yes	1(100)	0(0)	
Previous PCI			0.20
No	779(98.4)	13(1.6)	
Yes	42(95.5)	2(4.5)	

Table 5: Logistic regression analysis with multiple predictors

Potential predictors	Odds ratio	95% confidence interval		P Value
		Lower	Upper	
Age over 65				
No (reference)	-	-	-	-
Yes	1.12	0.60	2.14	0.73
Diabetes				
No (reference)	-	-	-	-
Insulin	2.62	0.84	6.69	**0.06**
Non Insulin	0.91	0.21	2.64	0.88
Oral (no case of complication)	-	-	-	-
ASA classification				
1-No Disturb (reference)	-	-	-	-
2-Mild Disturb	2.33	0.48	41.83	0.41
3-Severe Disturb	3.33	0.64	61.19	0.28
4-Life Threat	10.13	0.89	229.60	**0.07**
Dialysis				
No (reference)	-	-	-	-
Yes	20.63	2.82	99.89	**0.0004**