

Mortality Analysis

University Hospital of America



Operation Date Range: **10/01/2003 - 09/30/2004**
 Searched By Subspecialty: **General Surgery**
 Comparison Sites: **All Hospital Types, All Hospital Beds**
 Total # of Cases: **Site = 1,767 / Comparison = 19,504**

Page: 1 of 6
 Report Generated On: **04/12/2005**

VARIABLE	30-DAY POST-OP MORTALITIES		ALIVE @ 30 DAYS POST-OP	
	SITE	COMPARISON	SITE	COMPARISON
Number of Cases	44	354	1,723	19,150
Mortality Rate	2.5%	1.8%	97.5%	98.2%
<u>I. Outcome</u>				
Returned to OR w/in 30 Days	27.3%	33.6%	4.9%	6.4%
Average Hospital LOS	17.4 (±11.7)	18.0 (±14.8)	4.5 (±9.8)	5.9 (±21.7)
Average Surgical LOS	13.9 (±9.6)	14.5 (±13.0)	4.1 (±8.9)	5.1 (±17.4)
<u>II. Demographics</u>				
Age	67.2 (±16.6)	65.4 (±15.9)	54.6 (±16.6)	52.6 (±16.2)
Inpatient/Outpatient				
Inpatient	100.0%	98.3%	78.0%	60.5%
Outpatient	0.0%	1.7%	22.0%	39.5%
Race				
American Indian or Alaska Native	0.0%	0.0%	0.0%	0.2%
Asian or Pacific Islander	0.0%	3.7%	1.8%	2.0%
Black, Not of Hispanic Origin	9.1%	18.1%	3.4%	11.3%
Hispanic, Black	0.0%	0.0%	0.0%	0.0%
Hispanic, Color Unknown	6.8%	1.4%	4.8%	2.4%
Hispanic, White	0.0%	2.0%	0.2%	2.5%
Unknown	0.0%	4.0%	2.6%	7.7%
White, Not of Hispanic Origin	84.1%	70.9%	87.2%	73.9%
Sex				
Female	45.5%	43.2%	60.7%	61.5%
Male	54.5%	56.8%	39.3%	38.5%
Transfer From				
Acute Care Hospital	20.5%	22.9%	1.7%	2.4%
Admitted directly from home	72.7%	71.2%	97.2%	97.0%
Chronic Care Facility	6.8%	5.1%	0.9%	0.4%
Other	0.0%	0.8%	0.2%	0.2%
<u>III. Intraoperative</u>				
Anesthesia Type				
Epidural	0.0%	0.0%	0.1%	0.1%
General	100.0%	100.0%	95.9%	91.3%
Local	0.0%	0.0%	3.6%	0.2%
Monitored Anesthesia Care	0.0%	0.0%	0.3%	7.6%
Regional	0.0%	0.0%	0.0%	0.1%
Spinal	0.0%	0.0%	0.0%	0.6%
Other	0.0%	0.0%	0.0%	0.0%

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VARIABLE	30-DAY POST-OP MORTALITIES		ALIVE @ 30 DAYS POST-OP	
	SITE	COMPARISON	SITE	COMPARISON
ASA Class				
0-No ASA	0.0%	0.0%	1.6%	0.1%
1-No Disturb	0.0%	0.0%	15.4%	13.0%
2-Mild Disturb	18.2%	5.9%	61.3%	53.7%
3-Severe Disturb	34.1%	33.3%	19.6%	29.5%
4-Life Threat	38.6%	51.1%	1.9%	3.5%
5-Moribund	9.1%	9.6%	0.1%	0.2%
Emergent Surgery	47.7%	59.0%	7.1%	12.5%
Level of Residency Supervision				
Attending Alone	0.0%	1.1%	4.9%	2.9%
Attending in OR	93.2%	98.6%	90.7%	96.8%
Attending in OR Suite	0.0%	0.3%	0.1%	0.3%
Attending Not Present, but Available	2.3%	0.0%	2.7%	0.0%
Not entered	4.5%	0.0%	1.6%	0.0%
IV. Risk Factors				
Cases with 0 Risk Factors	0 0.0%	3 0.8%	665 38.6%	6,907 36.1%
Cases with 1 Risk Factors	6 13.6%	21 5.9%	509 29.5%	5,729 29.9%
Cases with 2 Risk Factors	5 11.4%	30 8.5%	284 16.5%	3,148 16.4%
Cases with 3 Risk Factors	2 4.5%	36 10.2%	124 7.2%	1,590 8.3%
Cases with 4 Risk Factors	4 9.1%	42 11.9%	56 3.3%	765 4.0%
Cases with 5+ Risk Factors	27 61.4%	222 62.7%	85 4.9%	1,011 5.3%
General Risk Factors				
Height (Inches)	65.7 (±4.2)	66.7 (±4.0)	66.2 (±4.2)	66.2 (±4.1)
Weight (Pounds)	163.8 (±56.9)	172.2 (±58.9)	179.4 (±54.1)	184.4 (±58.9)
Body Mass Index	26.0 (±6.3)	25.6 (±10.8)	28.8 (±8.5)	27.1 (±11.5)
Diabetes				
INSULIN	2.3%	13.0%	3.3%	3.9%
NO	90.9%	76.8%	91.9%	89.7%
ORAL	6.8%	10.2%	4.8%	6.4%
Smoked in Past year	15.9%	26.0%	15.9%	18.3%
ETOH > 2 Drinks/Day w/in 2 Weeks	4.5%	5.7%	3.5%	2.5%
Dyspnea				
AT REST	6.8%	29.9%	0.9%	2.2%
MODERATE EXERTION	9.1%	15.8%	4.9%	10.9%
NO	84.1%	54.2%	94.2%	86.9%
DNR	4.5%	4.8%	0.4%	0.3%

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Page: 3 of 6
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VARIABLE	30-DAY POST-OP MORTALITIES		ALIVE @ 30 DAYS POST-OP	
	SITE	COMPARISON	SITE	COMPARISON
Functional Status Pre-illness				
INDEPENDENT	77.3%	70.3%	97.3%	96.9%
PARTIALLY DEPENDENT	20.5%	18.4%	2.4%	2.4%
TOTALLY DEPENDENT	2.3%	9.3%	0.3%	0.5%
Functional Status Pre-surgery				
INDEPENDENT	38.6%	31.9%	95.4%	93.3%
PARTIALLY DEPENDENT	20.5%	16.7%	3.2%	4.3%
TOTALLY DEPENDENT	40.9%	51.4%	1.4%	2.4%
Pulmonary Risk Factors				
Ventilator Dependent	29.5%	38.7%	1.2%	1.6%
History of COPD	4.5%	13.6%	1.8%	2.6%
Current Pneumonia	11.4%	12.1%	1.0%	0.5%
Cardiac Risk Factors				
CHF w/in 1 Month	11.4%	13.3%	0.9%	0.8%
History of MI w/in 6 Months	4.5%	7.9%	0.5%	0.6%
Previous PTCA	9.1%	6.2%	3.4%	2.7%
Previous Cardiac Surgery	13.6%	12.4%	3.9%	3.5%
History of Angina w/in 1 Month	6.8%	4.0%	0.8%	0.9%
Hypertension	59.1%	57.1%	35.2%	36.3%
Hepatobiliary Risk Factors				
Ascites w/in 30 Days	34.1%	17.5%	1.7%	1.4%
Renal Risk Factors				
Renal Failure	11.4%	11.3%	0.7%	0.4%
Currently on Dialysis	11.4%	18.9%	0.7%	1.6%
Central Nervous System Risk Factors				
Impaired Sensorium	15.9%	23.2%	1.0%	1.0%
Coma	0.0%	2.3%	0.0%	0.0%
Hemiplegia	4.5%	5.7%	0.8%	0.7%
History of TIAs	2.3%	2.3%	1.3%	1.1%
CVA/NO Neuro Deficit	6.8%	3.4%	1.0%	1.2%
CVA/Residual Neuro Deficit	6.8%	7.3%	2.0%	1.3%
Tumor Involving CNS	2.3%	0.0%	0.5%	0.2%
Paraplegia/Paraparesis	0.0%	1.4%	0.5%	0.4%
Quadriplegia/Quadriparesis	0.0%	0.0%	0.0%	0.1%
Nutritional/Immune/Other Risk				
Disseminated Cancer	25.0%	13.0%	3.8%	3.3%
Open Wound Infection	18.2%	25.1%	5.2%	4.1%
Chronic Steroid Use	4.5%	16.9%	4.2%	4.3%
Weight Loss > 10%	27.3%	10.7%	7.0%	3.8%
Bleeding Disorders	34.1%	30.8%	2.1%	2.6%

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Page: 4 of 6
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	SITE	COMPARISON	SITE	COMPARISON
Transfusion > 4 RBC Units	13.6%	14.4%	0.3%	0.5%
Chemotherapy <= 30 Days	9.1%	3.1%	2.0%	2.0%
Radiotherapy <= 90 Days	4.5%	2.5%	1.6%	1.0%
Sepsis				
None	54.5%	49.7%	96.5%	95.4%
Sepsis	13.6%	14.7%	1.5%	1.9%
Septic Shock	20.5%	25.1%	0.2%	0.6%
SIRS	11.4%	10.5%	1.8%	2.0%
Gastrointestinal Risk Factors				
Esophageal Varices	2.3%	0.8%	0.3%	0.3%
Vascular Risk Factors				
History of PVD	9.1%	9.3%	1.9%	0.9%
Rest Pain / Gangrene	2.3%	1.7%	0.4%	0.2%

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Page: 5 of 6
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VARIABLE	30-DAY POST-OP MORTALITIES				ALIVE @ 30 DAYS POST-OP			
	SITE		COMPARISON		SITE		COMPARISON	
<u>V. Lab Values</u>								
	<u>Complete</u>	<u>Abnormal</u>	<u>Complete</u>	<u>Abnormal</u>	<u>Complete</u>	<u>Abnormal</u>	<u>Complete</u>	<u>Abnormal</u>
Alkaline Phosphatase > 125	95.5%	36.4%	89.8%	29.9%	63.5%	8.7%	57.6%	8.4%
Bilirubin > 1.0	95.5%	29.5%	90.1%	40.4%	60.8%	6.7%	57.4%	8.8%
BUN > 40	100.0%	15.9%	98.0%	28.2%	87.5%	2.2%	74.0%	2.2%
Creatinine > 1.2	100.0%	45.5%	98.0%	51.7%	80.1%	9.6%	75.9%	9.7%
HCT < 38	100.0%	81.8%	98.6%	75.1%	93.7%	31.7%	83.7%	31.0%
HCT > 45	100.0%	0.0%	98.6%	4.5%	93.7%	7.3%	83.7%	9.3%
Platelets < 150	97.7%	29.5%	98.3%	38.7%	93.7%	5.0%	82.1%	4.8%
Platelets > 400	97.7%	11.4%	98.3%	11.9%	93.7%	7.4%	82.1%	6.4%
PT > Cutoff	95.5%	63.6%	93.2%	62.7%	59.5%	9.3%	51.7%	13.1%
PTT > 35	93.2%	36.4%	92.7%	40.4%	57.5%	2.7%	51.2%	6.4%
SGOT > 40	97.7%	29.5%	90.7%	39.3%	63.5%	9.1%	57.5%	8.5%
Sodium < 135	97.7%	29.5%	98.0%	22.0%	78.2%	4.1%	75.1%	5.5%
Sodium > 145	97.7%	9.1%	98.0%	7.9%	78.2%	0.5%	75.1%	1.1%
WBCs <= 4.5	100.0%	11.4%	98.3%	7.3%	93.8%	7.4%	82.1%	6.9%
WBCs > 11.0	100.0%	45.5%	98.3%	45.2%	93.8%	12.7%	82.1%	14.3%
	<u>Complete</u>	<u>Mean (±SD)</u>	<u>Complete</u>	<u>Mean (±SD)</u>	<u>Complete</u>	<u>Mean (±SD)</u>	<u>Complete</u>	<u>Mean (±SD)</u>
Mean Albumin	90.9%	2.7 (±0.9)	89.0%	2.6 (±0.9)	57.6%	3.8 (±0.7)	56.1%	3.9 (±0.8)
Mean INR	65.9%	2.3 (±2.6)	91.8%	1.4 (±0.8)	19.6%	1.2 (±0.6)	50.9%	1.1 (±0.4)
<u>VI. Post-Op Occurrences</u>								
Cases with 0 Occurrences	13	29.5%	114	32.2%	1,540	89.4%	16,978	88.7%
Cases with 1 Occurrence	12	27.3%	72	20.3%	128	7.4%	1,450	7.6%
Cases with 2 Occurrences	6	13.6%	56	15.8%	36	2.1%	408	2.1%
Cases with 3 Occurrences	9	20.5%	40	11.3%	11	0.6%	168	0.9%
Cases with 4 Occurrences	2	4.5%	36	10.2%	7	0.4%	73	0.4%
Cases with 5+ Occurrences	2	4.5%	36	10.2%	1	0.1%	73	0.4%
Mean # of Occurrences	1.6 (±1.6)		1.9 (±1.9)		0.2 (±0.5)		0.2 (±0.6)	
Note: Above values do NOT include Other Occurrences that are not required to be reported by the ACS NSQIP.								
<u>Wound Occurrences</u>								
Superficial Incisional SSI	1	2.3%	3.1%		41	2.4%	3.4%	
Deep Incisional SSI	0	0.0%	1.1%		9	0.5%	0.6%	
Organ/Space SSI	2	4.5%	4.0%		23	1.3%	1.4%	
Wound Disruption	1	2.3%	3.4%		8	0.5%	0.6%	

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Respiratory Occurrences						
Pneumonia	5	11.4%	13.3%	24	1.4%	1.6%
Unplanned Intubation	7	15.9%	24.6%	9	0.5%	1.2%
Pulmonary Embolism	1	2.3%	0.8%	8	0.5%	0.3%
On Ventilator > 48 Hours	16	36.4%	39.5%	29	1.7%	2.0%
Urinary Tract Occurrences						
Progressive Renal Insufficiency	4	9.1%	5.9%	11	0.6%	0.3%
Acute Renal Failure	2	4.5%	14.1%	3	0.2%	0.3%
Urinary Tract Infection	0	0.0%	5.9%	34	2.0%	2.4%
Central Nervous System Occurrences						
Stroke/CVA	1	2.3%	2.5%	2	0.1%	0.1%
Coma > 24 Hours	3	6.8%	4.5%	0	0.0%	0.1%
Peripheral Nerve Injury	1	2.3%	0.3%	1	0.1%	0.1%
Cardiac Occurrences						
Cardiac Arrest Requiring CPR	5	11.4%	14.7%	2	0.1%	0.1%
Myocardial Infarction	0	0.0%	2.8%	0	0.0%	0.2%
Other Surgical Occurrences						
Bleeding/Transfusions	7	15.9%	12.4%	2	0.1%	0.4%
Graft/Prosthesis/Flap Failure	0	0.0%	0.0%	4	0.2%	0.1%
DVT/Thrombophlebitis	1	2.3%	2.3%	10	0.6%	0.5%
SIRS	1	2.3%	3.4%	21	1.2%	0.7%
Sepsis	3	6.8%	5.7%	19	1.1%	1.3%
Septic Shock	10	22.7%	21.5%	6	0.3%	0.5%
Other Occurrences*						
Other Wound Occurrence	2	4.5%	1.7%	42	2.4%	1.6%
Other Respiratory Occurrence	4	9.1%	8.5%	17	1.0%	0.7%
Other Urinary Tract Occurrence	2	4.5%	0.0%	22	1.3%	0.3%
Other CNS Occurrence	2	4.5%	2.8%	7	0.4%	0.2%
Other Cardiac Occurrence	4	9.1%	15.8%	23	1.3%	1.0%
Other Occurrence	7	15.9%	14.4%	39	2.3%	3.7%

*Note: Other Occurrences not required to be reported by the ACS NSQIP.

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