

**PERCUTANEOUS
CORONARY
INTERVENTIONS
(PCI)
in
New York State
*2003-2005***

**New York State Department of Health
February 2008**

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MESSAGE FROM COMMISSIONER

I am pleased to provide the information contained in this booklet for use by health care providers, patients and families of patients who are considering treatment options for cardiovascular disease. The report provides data on risk factors associated with in-hospital/30-day mortality following percutaneous coronary intervention (PCI) (also known as angioplasty) and lists hospital and physician-specific mortality rates. The analyses use a risk-adjustment process to account for pre-existing differences in patients' health status. This report includes information on mortality occurring in the same hospitalization as PCI and that which occurs outside the hospital but within 30 days following PCI. We believe this to be an important quality indicator that will provide useful information to patients and providers.

The Percutaneous Coronary Interventions (PCI) Reporting System (the data set upon which these analyses are based) represents the largest collection of data available in which all patients undergoing PCI have been reported. Hospitals and doctors involved in cardiac care have worked cooperatively with the Department of Health and the Cardiac Advisory Committee to compile accurate and meaningful data that can and have been used to enhance quality of care.

I encourage doctors to discuss this information with their patients and colleagues as they develop treatment plans. While these statistics are an important tool in making informed health care choices, doctors and patients must make individual treatment plans together after careful consideration of all pertinent factors. It is also important to keep in mind that the information in this booklet does not include data after 2005. Important changes may have taken place in some hospitals since that time.

I would also ask that patients and physicians alike give careful consideration to the importance of healthy lifestyles for all those affected by heart disease. Controllable risk factors that contribute to a higher likelihood of developing coronary artery disease are high cholesterol levels, cigarette smoking, high blood pressure, obesity and lack of exercise. Limiting these risk factors will contribute to improved health for patients undergoing PCI and will help to minimize the development of new blockages in the coronary arteries.

I extend my appreciation to the providers in this state and to the Cardiac Advisory Committee for their efforts in developing and refining this remarkable system. The Department of Health will continue to work in partnership with hospitals and physicians to ensure high quality of care for patients with heart disease. We look forward to providing reports such as this and the Adult Cardiac Surgery Report on an annual basis. I applaud the continued high quality of care available from our New York State health care providers.

INTRODUCTION

Heart disease is, by far, the leading cause of death in New York State, and the most common form of heart disease is atherosclerotic coronary artery disease. Various treatments are recommended for patients with coronary artery disease. For some people, changes in lifestyle, such as dietary changes, not smoking and regular exercise can result in great improvements in health. In other cases, medication prescribed for high blood pressure or other conditions can make a significant difference.

Sometimes, however, an interventional procedure is recommended. The two most common procedures performed on patients with coronary artery disease are percutaneous coronary intervention (PCI), also known as percutaneous transluminal coronary angioplasty (PTCA), and coronary artery bypass graft surgery (CABG).

During a PCI procedure, a catheter is threaded up to the site of the blockage in a coronary artery. In conjunction with the catheter, devices are used to open the blockage. In some cases, PCI is used as an emergency treatment for patients who are experiencing a heart attack or who may be in shock. Most cases, however, are not done on an emergency basis.

Those who have a PCI procedure are not cured of coronary artery disease; the disease can still occur in the treated blood vessels or other coronary arteries. In order to minimize new blockages, patients should continue to reduce their risk factors for heart disease.

The analyses contained in this report are based on the information collected on each of the 159,839 patients who underwent PCI and were discharged between January 1, 2003 and December 31, 2005. The number of PCI cases per year has increased during that period from 50,039 in 2003 to 56,058 in 2005. Analyses of risk-adjusted mortality rates and associated risk factors are provided for 2005 and for the three-year period from 2003 through 2005. Analysis of all cases, non-emergency cases (which represent the majority of procedures) and emergency cases are included.

HEALTH DEPARTMENT PROGRAM

The New York State Department of Health has been studying the effects of patient and treatment characteristics on outcomes for patients with heart disease for several years. Detailed statistical analyses of the information received from the study have been conducted under the guidance of the New York State Cardiac Advisory Committee, a group of independent practicing cardiac surgeons, cardiologists, and other professionals in related fields.

The results have been used to create a cardiac profile system that assesses the performance of hospitals and doctors over time, taking into account the severity of individual patient's pre-operative conditions. Coronary artery bypass surgery results have been assessed since 1989; PCI results were released in 1996 for the first time.

Designed to improve health in people with heart disease, this program is aimed at:

- understanding the health risks of patients that adversely affect how they will fare during and after PCI;
- improving the results of different treatments of heart disease;
- improving cardiac care; and
- providing information to help patients make better decisions about their own care.

PATIENT POPULATION

All adult New York State residents undergoing PCI in New York State hospitals who were discharged during 2005 are included in the one-year results presented in this report. Since 30-day follow-up data for patients residing outside New York State is not available beyond December 31, 2005, non-NYS residents undergoing PCI during December 2005 are excluded from all analyses in this report. All patients undergoing PCI who were discharged between January 1, 2003 and December 31, 2005 are included in the three-year results, except those residing outside NYS with PCI in December 2005. Observed and risk-adjusted mortality rates are reported for patients undergoing PCI in each of the 50 New York State hospitals with approval to perform the procedure.

In New York State, PCI is limited to centers with cardiac surgery on-site. However, beginning in the year 2000, a process was put in place to allow time-limited waivers to this policy for centers participating in a special study for heart attack patients. After extensive training and review, hospitals meeting specific conditions may now be allowed to perform PCI on patients with an ST Elevation Myocardial Infarction (a specific kind of heart attack also known as STEMI). One

hospital began performing PCI under these conditions in 2000, eight were added between 2001 and 2004, and one more began in 2005. Several of these hospitals have also been granted permission to perform PCI on patients not having a STEMI. This project did not begin until 2006 and therefore outcomes for these programs are not included in this report. We will continue to study the impact of these changes over the next several years.

RISK ADJUSTMENT FOR ASSESSING PROVIDER PERFORMANCE

Hospital or physician performance is an important factor that directly relates to patient outcomes. Whether patients recover quickly, experience complications, or die following a procedure is in part a result of the kind of medical care they receive. It is difficult, however, to compare outcomes among hospitals when assessing performance, because different hospitals treat different types of patients. Hospitals with sicker patients may have higher rates of complications and death than other hospitals in the state. The following describes how the New York State Department of Health adjusts for patient risk in assessing outcomes of care in different hospitals.

Data Collection, Data Validation and Identifying In-Hospital/30-Day Deaths

As part of the risk-adjustment process, hospitals in New York State where PCI is performed provide information to the Department of Health for each patient undergoing those procedures. Data concerning patients' demographic and clinical characteristics are collected by hospitals' cardiac catheterization laboratories. Approximately 40 of these characteristics (or risk factors) are collected for each patient. Along with information about the hospital, physician, and the patient's status at discharge, these data are entered into a computer, and sent to the Department of Health for analysis.

Data are verified through review of unusual reporting frequencies, cross-matching of PCI data with other Department of Health databases and a review of medical records for a selected sample of cases. These activities are extremely helpful in ensuring consistent interpretation of data elements across hospitals.

The analysis bases mortality on deaths occurring during the same hospital stay in which a patient underwent PCI and on deaths that occur after hospital discharge but within 30 days of PCI. In this report, an in-hospital death is defined as a patient who died subsequent to PCI during the same acute care admission or was discharged to hospice care and expired within 30 days. Data on deaths occurring after discharge from the hospital are made available by the National Center for Health Statistics. More information on this data source can be obtained from <http://www.cdc.gov/nchs/ndi.htm>.

Assessing Patient Risk

Each person who develops coronary artery disease has a unique health history. A cardiac profile system has been developed to evaluate the risk of treatment for each individual patient based on his or her history, weighing the important health facts for that person based on the experiences of thousands of patients who have undergone the same procedures in recent years. All important risk factors for each patient are combined to create his or her risk profile.

For example, an 80-year-old patient with a heart attack in the past six hours has a very different risk profile than a 40-year-old who has never suffered a heart attack.

The statistical analyses conducted by the New York State Department of Health consist of determining which of the risk factors collected are significantly related to in-hospital/30-day death, and determining how to weight the significant risk factors to predict the chance each patient will have of dying in the hospital given his or her specific characteristics.

Predicting Patient Mortality Rates for Providers

The statistical methods used to predict mortality on the basis of the significant risk factors are tested to determine if they are sufficiently accurate in predicting mortality for patients who are extremely ill prior to undergoing the procedure as well as for patients who are relatively healthy. These tests have confirmed that the models are reasonably accurate in predicting how patients of all different risk levels will fare when undergoing PCI.

The mortality rate for each hospital and cardiologist is also predicted using the statistical model. This is accomplished by adding the predicted probabilities of death for each of the provider's patients and dividing by the number of patients. The resulting rate is an estimate of what the provider's mortality rate would have been if the hospital's performance was identical to the state performance. The percentage is called the predicted or expected mortality rate (EMR). A hospital's expected mortality rate is contrasted with its observed mortality rate (OMR), which is the number of PCI patients who died divided by the total number of PCI patients.

Computing the Risk-Adjusted Rate

The risk-adjusted mortality rate (RAMR) represents the best estimate, based on the associated statistical model, of what the provider's mortality rate would have been if the provider had a mix of patients identical to the statewide mix. Thus, the risk-adjusted mortality rate has, to the extent possible, ironed out differences among providers in patient severity of illness, since it arrives at a mortality rate for each provider based on an identical group of patients.

To get the risk-adjusted mortality rate, the observed mortality rate is first divided by the provider's expected mortality rate. If the resulting ratio is larger than one, the provider has a higher mortality rate than expected on the basis of its patient mix; if it is smaller than one, the provider has a lower mortality rate than expected from its patient mix. The ratio is then multiplied by the overall statewide rate (0.88% in-hospital/30-day for NYS residents in 2005) to obtain the provider's risk-adjusted rate.

Interpreting the Risk-Adjusted Mortality Rate

If the risk-adjusted mortality rate is lower than the statewide mortality rate, the hospital has a better performance than the state as a whole; if the risk-adjusted mortality rate is higher than the statewide mortality rate, the hospital has a worse performance than the state as a whole.

The risk-adjusted mortality rate is used in this report as a measure of quality of care provided by hospitals and cardiologists. However, there are reasons that a provider's risk-adjusted rate may not be indicative of its true quality.

For example, extreme outcome rates may occur due to chance alone. This is particularly true for low-volume providers, for whom very high or very low rates are more likely to occur than for high-volume providers. Another attempt to prevent misinterpretation of differences caused by chance variation is the use of expected ranges (confidence intervals) in the reported results.

Differences in hospital coding of risk factors could be an additional reason that a hospital's risk-adjusted rate may not be reflective of quality of care. The Department of Health monitors the quality of coded data by reviewing patients' medical records to ascertain the presence of key risk factors. When significant coding problems have been discovered, hospitals have been required to recode these data and have been subject to subsequent monitoring.

Some commentators have suggested that patient severity of illness may not be accurately estimated because some risk factors are not included in the data system, and this could lead to misleading risk-adjusted rates. This is not likely because the New York State data system has been reviewed by practicing physicians in the field and is updated continually. It now contains virtually every risk factor that has ever been demonstrated to be related to patient mortality in national and international studies.

How This Contributes to Quality Improvement

The goal of the Department of Health and the Cardiac Advisory Committee is to improve the quality of care in relation to cardiac surgery and angioplasty in New York State. Providing the hospitals, cardiac surgeons (who perform cardiac surgery), and cardiologists (who perform PCI) in New York State with data about their own outcomes for these procedures allows them to examine the quality of their own care, and to identify opportunities to improve that care.

The data collected and analyzed in this program are reviewed by the Cardiac Advisory Committee, who assist with interpretation and advise the Department of Health regarding which hospitals and physicians may need special attention. Committee members have also conducted site visits to particular hospitals, and have recommended that some hospitals obtain the expertise of outside consultants to design improvements for their programs.

2005 HOSPITAL RISK-ADJUSTED MORTALITY FOR PCI

Table 1 and figures 1 and 2 present the 2005 PCI mortality results for the 50 hospitals performing PCI in New York in 2005. The table contains, for each hospital, the number of PCIs resulting in 2005 discharges, the number of in-hospital/30-day deaths, the observed mortality rate, the expected mortality rate based on the statistical model presented in Appendix 1, the risk-adjusted mortality rate, and a 95% confidence interval for the risk-adjusted rate. Also, it contains each hospital's volume of cases and risk-adjusted mortality rate for non-emergency patients. Emergency patients are defined to be patients in shock, a state of hemodynamic instability (very low blood pressure), or patients who experienced a heart attack within 24 hours prior to undergoing PCI. The hospital risk-adjusted rates for non-emergency PCI patients are provided because many studies are confined to this group of patients, and because these patients comprise the majority of all PCI patients (88.64% in 2005).

The overall in-hospital/30-day mortality rate for the 56,058 PCIs performed at the 50 hospitals was 0.88%. Observed mortality rates ranged from 0.00% to 6.90%. The range in expected mortality rates, which measure patient severity of illness, was between 0.56% and 3.17%. The risk-adjusted rates, which measure hospital performance, range from 0.00% to 4.04%. Based on confidence intervals for risk-adjusted rates, one hospital (Maimonides Medical Center) had a risk-adjusted mortality rate that was significantly higher than the statewide average. No hospitals had risk-adjusted mortality rates significantly lower than the statewide average.

The last column of Table 1 presents the hospital risk-adjusted mortality rates for non-emergency cases (based on the statistical model presented in Appendix 2). As presented in the last row, the statewide in-hospital/30-day mortality rate for non-emergency cases is 0.60%. The range of risk-adjusted rates was from 0.00% to 1.87%. No hospitals had risk-adjusted mortality rates that were significantly higher than the statewide rate. One hospital (Westchester Medical Center) had a risk-adjusted mortality rate that was significantly lower than the statewide rate.

Figures 1 and 2 provide a visual representation of the data displayed in Table 1. For each hospital, the black dot represents the risk-adjusted mortality rate (RAMR) and the gray bar represents the confidence interval, or potential statistical error, for the RAMR. The black vertical line is the New York State in-hospital/30-day mortality rate. For any hospital where the gray bar crosses the state average line, the RAMR is not statistically different from the state as a whole. Hospitals that are statistical outliers will have gray bars (confidence intervals) that are either entirely above or entirely below the line for the statewide rate.

Since the 2005 PCI analysis is based on in-hospital 30-day mortality, the associated mortality rates cannot be compared directly to some previous NYS publications which are based on only in-hospital mortality.

The observed in-hospital mortality rate for all 2005 PCI discharges (not shown in Table 1) was 0.52% for all 56,058 patients included in Table 1. For the Non-Emergency analysis, there were 49,692 patients altogether with an in-hospital mortality rate of 0.26%. As stated above, non-NYS residents with PCI performed in December of 2005 are excluded from analyses due to lack of follow-up data. This accounts for 174 cases.

2003-2005 HOSPITAL DATA FOR PCI

Table 2 provides the number of PCIs, the observed in-hospital mortality rate, and the risk-adjusted in-hospital mortality rate for 2003-2005 for each of three types of PCI patients in the 50 hospitals performing PCI during the time period. The three types of patients are: all patients, non-emergency patients, and emergency patients (patients in shock, a state of hemodynamic instability (very low blood pressure), or patients who experienced a heart attack within 24 hours prior to undergoing PCI). The statistical models that are the basis for all patients, non-emergency patients, and emergency patients in 2003-2005 are presented in Appendices 3-5, respectively.

As indicated in Table 2, the three-year observed in-hospital/30-day mortality rates for all PCI patients ranged from 0.00% to 5.00%, and the risk-adjusted mortality rates ranged from 0.00% to 2.48%. Four hospitals (Albany Medical Center, NY Methodist Hospital, St. Elizabeth Medical Center and University Hospital Upstate) had risk-adjusted mortality rates that were significantly higher than the statewide rate. One hospital (Long Island Jewish Medical Center) had a risk-adjusted mortality rate that was significantly lower than the statewide rate. It should be noted that hospitals are more likely to have results that show a statistically significant difference from the statewide rate when three years of data are used than when one year of data is used because the three-year volumes are higher.

Table 2 also presents the 3-year risk-adjusted in-hospital/30-day mortality rates for non-emergency cases based on the model in Appendix 4. Non-emergency cases comprise 88.75% of cases for the period 2003-2005. The statewide in-hospital/30-day mortality rate for the 141,865 non-emergency cases during the 3-year period was 0.63%. Observed mortality rates for this group of patients ranged from 0.18% to 1.34% and the risk-adjusted mortality rates ranged from 0.18 to 1.96%. No hospitals had risk-adjusted mortality rates that were significantly higher than the statewide average. One hospital (Mercy Hospital) had a risk-adjusted mortality rate significantly below the statewide rate for non-emergency cases.

The last three columns in Table 2 present data on emergency cases based on the model in Appendix 5. Emergency cases represented 11.25% of cases for the period 2003-2005. The statewide in-hospital/30-day mortality rate for the 17,974 emergency PCI cases during the 3-year period was 3.27%. Observed mortality rates for this group ranged from 0.00% to 16.98% and the risk-adjusted mortality rates ranged from 0.00% to 10.13%. One hospital (University Hospital Upstate) had a risk-adjusted mortality rate that was significantly above the statewide average and two hospitals (Long Island Jewish Medical Center and United Health Services) had risk-adjusted mortality rates that were significantly below the statewide average for emergency cases.

The observed in-hospital mortality rate for all 159,839 cases included in Table 2 is 0.56. The in-hospital mortality rate was 0.29 for the 141865 non-emergency cases, and 2.73 for the 17974 emergency cases.

Note on Hospitals Not Performing PCI During Entire 2003-2005 Period

Several hospitals began performing PCI during the 2003 - 2005 time period on which this report is based. These hospitals and the month of the first PCI are listed below. Hospitals marked with “#” were allowed to perform PCI only on acute myocardial infarction (heart attack) patients in 2003-2005. Mary Imogene Bassett Hospital - March 2003; #Park Ridge Hospital - May 2003; #Glens Falls Hospital - June 2003; #Good Samaritan Suffern - October 2003; New York Methodist - April 2004; #St. Catherine of Siena - October 2004; #Huntington Hospital - November 2004; Champlain Valley Physicians Hospital - January 2005; #Long Island College Hospital - September 2005.

Definitions of key terms are as follows:

The **observed mortality rate (OMR)** is the observed number of deaths divided by the number of patients.

The **expected mortality rate (EMR)** is the sum of the predicted probabilities of death for all patients divided by the total number of patients.

The **risk-adjusted mortality rate (RAMR)** is the best estimate, based on the statistical model, of what the provider's mortality rate would have been if the provider had a mix of patients similar to the statewide mix. It is obtained by first dividing the observed mortality rate by the expected mortality rate, and then multiplying that quotient by the statewide mortality rate (0.88% in-hospital/30-day mortality for all PCI patients discharged in 2005).

Confidence intervals indicate which hospitals had significantly more or fewer deaths than expected given the risk factors of their patients. Hospitals with significantly higher rates than expected after adjusting for risk are those with confidence intervals entirely above the statewide rate. Hospitals with significantly lower rates than expected given the severity of illness of their patients before the PCI have confidence intervals entirely below the statewide rate.

Table 1 Hospital Observed, Expected and Risk-Adjusted In-Hospital/30-Day Mortality Rates (RAMR) for PCI in New York State, 2005 Discharges. (Listed Alphabetically by Hospital)

Hospital	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Albany Medical Center	1202	11	0.92	0.75	1.07	(0.53, 1.92)	1038	0.96
Arnot Ogden Med Ctr	353	1	0.28	0.64	0.39	(0.01, 2.16)	288	0.51
Bellevue Hospital Ctr	508	2	0.39	0.76	0.46	(0.05, 1.64)	459	0.24
Beth Israel Med Ctr	1364	16	1.17	0.73	1.42	(0.81, 2.31)	1305	1.01
Buffalo General Hosp	1561	15	0.96	0.84	1.01	(0.56, 1.66)	1485	0.50
Champ.Valley Phys Hosp	201	2	1.00	0.82	1.06	(0.12, 3.84)	152	1.87
City Hosp at Elmhurst	66	1	1.52	3.00	0.44	(0.01, 2.47)	.	.
Crouse Hospital	792	8	1.01	0.70	1.27	(0.55, 2.50)	723	0.92
Ellis Hospital	812	5	0.62	0.89	0.61	(0.20, 1.42)	640	0.50
Erie County Med Ctr	384	9	2.34	1.38	1.50	(0.68, 2.84)	295	0.89
Glens Falls Hospital	59	1	1.69	2.63	0.57	(0.01, 3.15)	.	.
Good Sam - Suffern	98	2	2.04	3.17	0.57	(0.06, 2.04)	.	.
Good Sam - West Islip	87	2	2.30	2.02	1.00	(0.11, 3.61)	.	.
Huntington Hospital	29	2	6.90	1.50	4.04	(0.45,14.58)	.	.
LIJ Medical Center	1750	10	0.57	0.91	0.55	(0.26, 1.01)	1544	0.44
Lenox Hill Hospital	2439	23	0.94	0.78	1.06	(0.67, 1.59)	2288	0.70
Long Island Coll. Hosp	14	0	0.00	2.42	0.00	(0.00, 9.53)	.	.
M. I. Bassett Hospital	199	4	2.01	1.27	1.39	(0.37, 3.56)	152	1.36
Maimonides Medical Ctr	1559	24	1.54	0.98	1.39 *	(0.89, 2.06)	1393	0.82
Mercy Hospital	722	4	0.55	1.14	0.43	(0.12, 1.10)	558	0.13
Millard Fillmore Hosp	974	6	0.62	0.87	0.62	(0.23, 1.36)	874	0.31
Montefiore - Einstein	937	12	1.28	0.69	1.63	(0.84, 2.85)	865	1.22
Montefiore - Moses	798	9	1.13	0.74	1.33	(0.61, 2.53)	713	0.30
Mount Sinai Hospital	3845	27	0.70	0.82	0.75	(0.49, 1.09)	3632	0.53
NY Hospital - Queens	1278	15	1.17	0.85	1.21	(0.68, 2.00)	1172	0.92
NY Methodist Hospital	990	11	1.11	0.70	1.40	(0.70, 2.51)	958	1.01
NYP- Columbia Presby.	2824	19	0.67	0.77	0.76	(0.46, 1.19)	2706	0.54
NYP- Weill Cornell	1780	14	0.79	1.30	0.53	(0.29, 0.89)	1589	0.35
NYU Hospitals Center	897	6	0.67	0.73	0.81	(0.29, 1.76)	844	0.55
North Shore Univ Hosp	3814	27	0.71	0.76	0.82	(0.54, 1.19)	3454	0.67
Rochester General Hosp	2515	23	0.91	0.75	1.07	(0.68, 1.60)	2228	0.74
SVCMC- St. Vincents	1720	17	0.99	0.72	1.21	(0.70, 1.93)	1590	0.90
South Nassau Comm.Hosp	47	1	2.13	2.15	0.87	(0.01, 4.84)	.	.
Southside Hospital	63	0	0.00	1.27	0.00	(0.00, 4.04)	.	.
St. Catherine of Siena	37	0	0.00	1.82	0.00	(0.00, 4.80)	.	.
St. Elizabeth Med Ctr	1344	19	1.41	1.14	1.09	(0.65, 1.70)	1167	0.94
St. Francis Hospital	3605	28	0.78	0.82	0.84	(0.55, 1.21)	3387	0.57
St. Josephs Hospital	1996	18	0.90	1.03	0.77	(0.46, 1.22)	1731	0.45
St. Lukes at St. Lukes	760	6	0.79	1.04	0.67	(0.24, 1.46)	689	0.12
St. Peters Hospital	1107	5	0.45	0.79	0.50	(0.16, 1.18)	863	0.28
Staten Island Univ Hosp	1268	9	0.71	0.56	1.12	(0.51, 2.12)	1133	0.92
Strong Memorial Hosp	1412	19	1.35	0.93	1.27	(0.76, 1.98)	1129	0.95
United Health Services	843	8	0.95	1.32	0.63	(0.27, 1.25)	684	0.73
Unity Hospital	41	0	0.00	1.41	0.00	(0.00, 5.56)	.	.
Univ.Hosp-Brooklyn	1304	11	0.84	0.80	0.93	(0.46, 1.66)	1250	0.72
Univ.Hosp-SUNY Upstate	241	5	2.07	1.48	1.24	(0.40, 2.89)	168	0.45
Univ.Hosp-Stony Brook	1661	14	0.84	1.00	0.74	(0.40, 1.24)	1359	0.25
Vassar Bros. Med Ctr	762	4	0.52	0.94	0.49	(0.13, 1.25)	604	0.00
Westchester Med Ctr	1612	11	0.68	1.07	0.56	(0.28, 1.00)	1336	0.08 **
Winthrop Univ. Hosp	1384	7	0.51	0.80	0.55	(0.22, 1.14)	1247	0.33
Statewide Total	56058	493	0.88				49692	0.60

* Risk-adjusted mortality rate significantly higher than statewide rate based on 95 percent confidence interval.

** Risk-adjusted mortality rate significantly lower than statewide rate based on 95 percent confidence interval.

Figure 1 In-Hospital/30-Day Risk-Adjusted Mortality Rates for PCI in New York State, 2005 Discharges (All Cases)

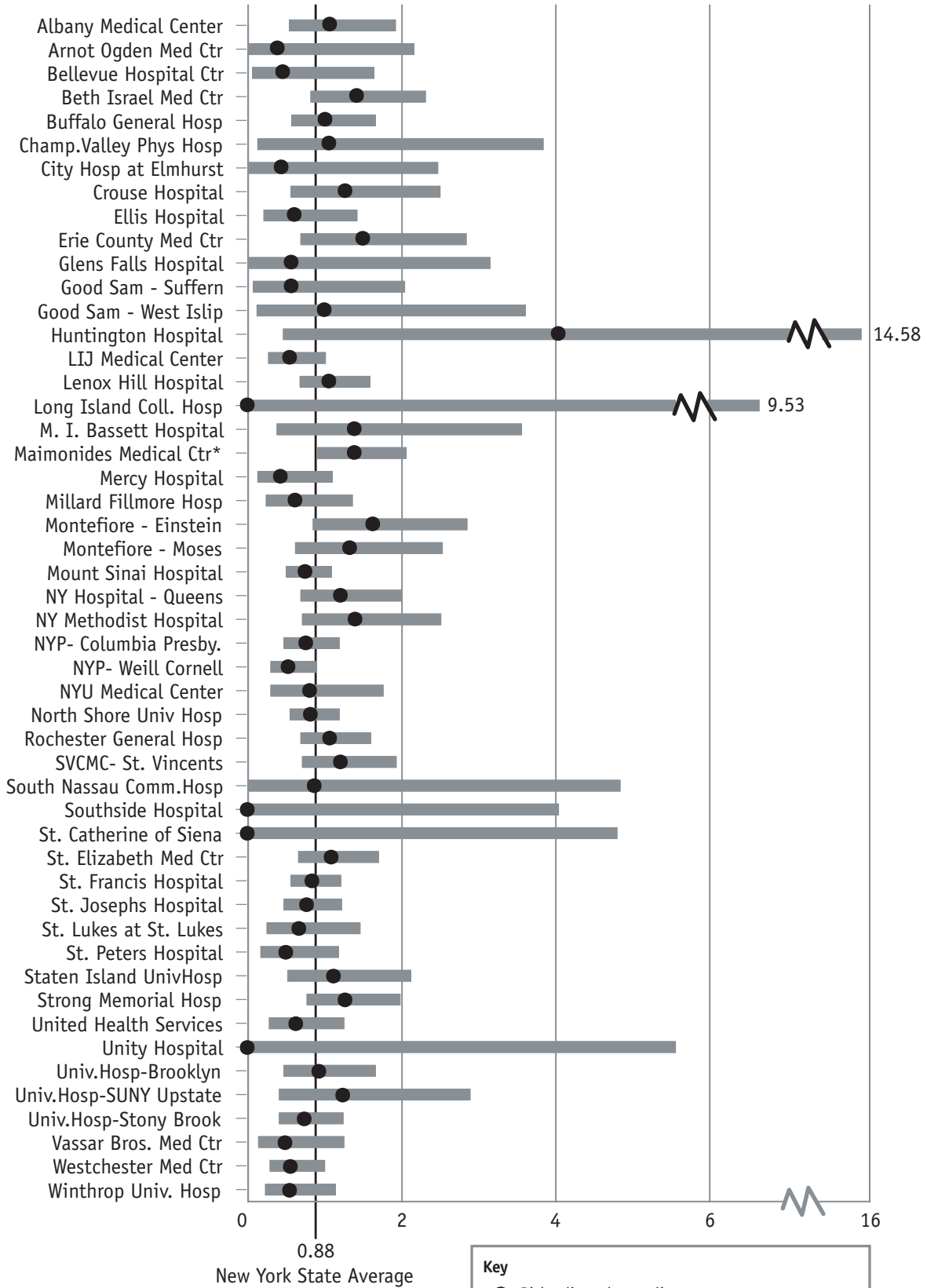


Figure 2 In-Hospital/30-Day Risk-Adjusted Mortality Rates for PCI in New York State, 2005 Discharges (Non-Emergency Cases)

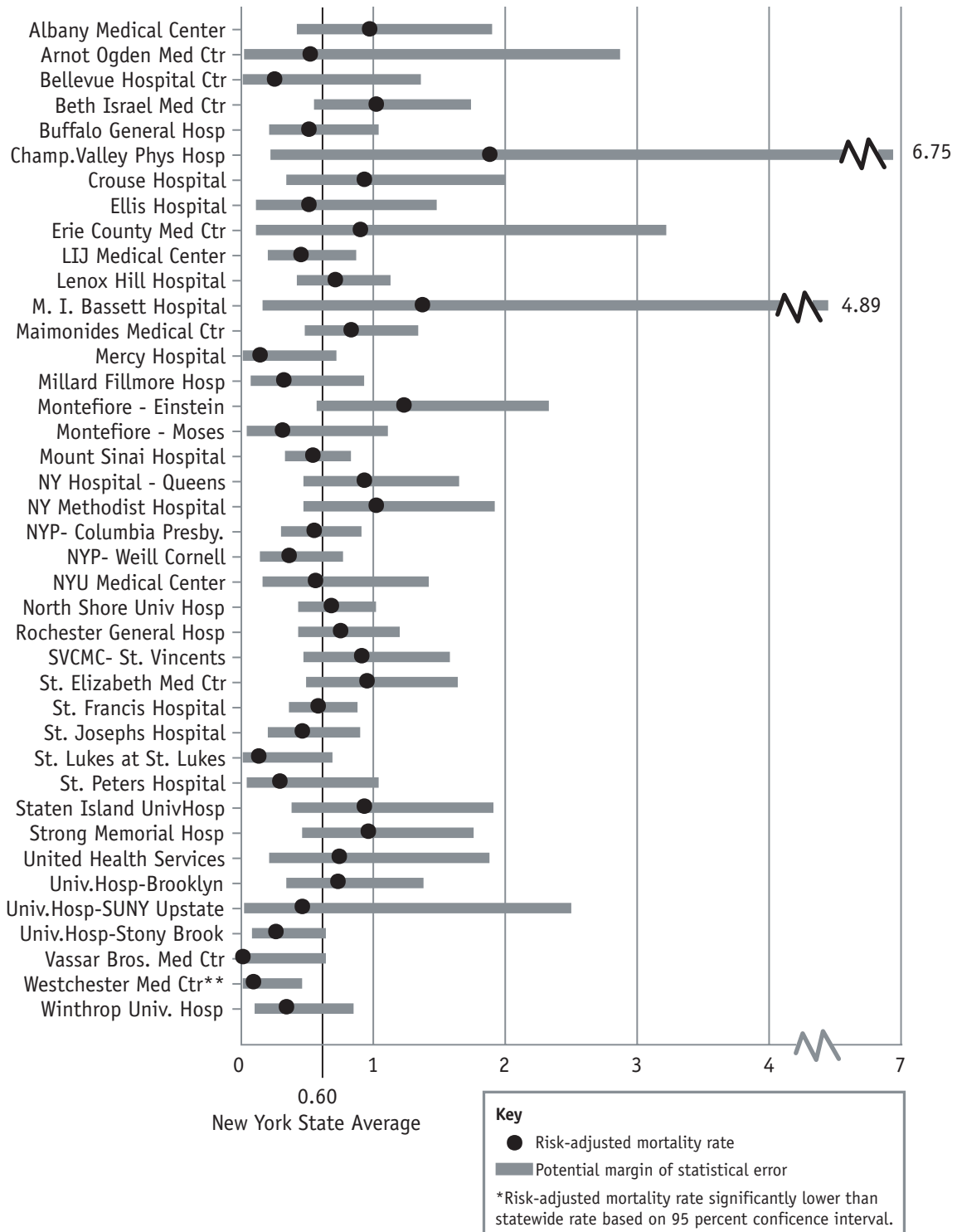


Table 2 Hospital Observed and Risk-Adjusted In-hospital / 30-Day Mortality Rates (RAMR) for PCI in New York State, 2003 - 2005 Discharges

Hospital	All Cases			Non-Emergency Cases			Emergency Cases		
	Cases	OMR	RAMR	Cases	OMR	RAMR	Cases	OMR	RAMR
Albany Medical Center	3667	1.25	1.35 *	3085	0.78	0.97	582	3.78	4.73
Arnot Ogden Med Ctr	946	0.63	0.69	720	0.56	0.66	226	0.88	1.58
Bellevue Hospital Ctr	1214	0.82	0.78	1089	0.18	0.18	125	6.40	5.44
Beth Israel Med Ctr	4088	1.03	1.08	3876	0.72	0.70	212	6.60	4.81
Buffalo General Hosp	4909	0.84	1.14	4704	0.62	0.73	205	5.85	4.87
Champ.Valley Phys Hosp	201	1.00	1.14	152	1.32	1.96	49	0.00	0.00
City Hosp at Elmhurst	189	3.70	1.24	.	.	.	189	3.70	4.51
Crouse Hospital	2416	0.66	0.75	2191	0.41	0.48	225	3.11	2.55
Ellis Hospital	2510	0.92	0.85	1999	0.75	0.72	511	1.57	2.15
Erie County Med Ctr	1111	1.44	1.43	941	0.64	0.81	170	5.88	6.27
Glens Falls Hospital	133	2.26	0.84	.	.	.	133	2.26	3.05
Good Sam - Suffern	202	3.47	0.68	.	.	.	202	3.47	2.58
Good Sam - West Islip	248	4.03	1.79	.	.	.	248	4.03	6.41
Huntington Hospital	40	5.00	2.48	.	.	.	40	5.00	10.13
LIJ Medical Center	5238	0.76	0.64**	4576	0.66	0.57	662	1.51	1.51**
Lenox Hill Hospital	8860	0.84	0.93	8487	0.70	0.65	373	4.02	2.78
Long Island Coll. Hosp	14	0.00	0.00	.	.	.	14	0.00	0.00
M. I. Bassett Hospital	521	1.73	1.48	406	0.74	0.85	115	5.22	5.61
Maimonides Medical Ctr	4482	1.03	0.86	4119	0.87	0.59	363	2.75	3.25
Mercy Hospital	1628	0.68	0.55	1279	0.23	0.19**	349	2.29	2.94
Millard Fillmore Hosp	2876	0.80	0.87	2639	0.61	0.61	237	2.95	2.51
Montefiore - Einstein	2540	1.06	1.34	2322	0.78	0.85	218	4.13	6.15
Montefiore - Moses	2307	0.95	0.98	2090	0.53	0.56	217	5.07	4.01
Mount Sinai Hospital	9722	0.80	0.76	9226	0.60	0.53	496	4.64	2.44
NY Hospital - Queens	3729	1.21	1.15	3391	0.86	0.84	338	4.73	3.48
NY Methodist Hospital	1644	1.40	1.47*	1591	0.88	0.80	53	16.98	6.78
NYP- Columbia Presby.	4707	0.93	0.96	4397	0.71	0.66	310	4.19	3.41
NYP- Weill Cornell	5327	1.03	0.81	4832	0.56	0.53	495	5.66	2.74
NYU Hospitals Center	2403	0.58	0.72	2245	0.45	0.48	158	2.53	2.58
North Shore Univ Hosp	10878	0.72	0.81	9692	0.53	0.59	1186	2.28	2.38
Rochester General Hosp	7619	0.91	1.01	6642	0.59	0.63	977	3.07	4.05
SVCMC- St. Vincents	4637	0.99	1.00	4164	0.72	0.78	473	3.38	3.04
South Nassau Comm.Hosp	167	1.80	0.93	.	.	.	167	1.80	3.62
Southside Hospital	173	0.58	0.33	.	.	.	173	0.58	1.25
St. Catherine of Siena	48	0.00	0.00	.	.	.	48	0.00	0.00
St. Elizabeth Med Ctr	4340	1.36	1.22*	3887	0.87	0.83	453	5.52	4.67
St. Francis Hospital	11127	0.78	0.90	10538	0.64	0.64	589	3.40	2.79
St. Josephs Hospital	6282	0.97	0.96	5439	0.64	0.63	843	3.08	3.56
St. Lukes at St. Lukes	2509	1.00	1.15	2275	0.57	0.64	234	5.13	5.41
St. Peters Hospital	3348	0.75	0.81	2700	0.48	0.52	648	1.85	2.83
Staten Island Univ Hosp	3728	0.62	0.89	3390	0.44	0.64	338	2.37	2.85
Strong Memorial Hosp	4078	1.18	1.10	3250	0.74	0.75	828	2.90	3.61
United Health Services	2773	1.12	0.74	2261	0.75	0.73	512	2.73	1.94**
Unity Hospital	139	0.72	0.30	.	.	.	139	0.72	0.98
Univ.Hosp-Brooklyn	3518	0.68	0.90	3366	0.53	0.60	152	3.95	4.22
Univ.Hosp-SUNY Upstate	694	2.88	1.72*	522	1.34	1.11	172	7.56	6.54*
Univ.Hosp-Stony Brook	4447	1.08	1.00	3719	0.65	0.58	728	3.30	3.91
Vassar Bros. Med Ctr	2503	0.72	0.66	1895	0.26	0.27	608	2.14	3.18
Westchester Med Ctr	4731	0.82	0.75	3914	0.38	0.40	817	2.94	3.27
Winthrop Univ. Hosp	4228	0.69	0.73	3854	0.57	0.58	374	1.87	1.84
Statewide Total	159839	0.92		141865	0.63		17974	3.27	

* Risk-adjusted mortality rate significantly higher than statewide rate based on 95 percent confidence interval.

** Risk-adjusted mortality rate significantly lower than statewide rate based on 95 percent confidence interval.

2003-2005 HOSPITAL AND CARDIOLOGIST DATA FOR PCI

Table 3 provides the number of PCIs, number of PCI patients who died in the hospital or after discharge but within 30 days, observed in-hospital/30-day mortality rate, expected mortality rate, risk-adjusted in-hospital/30-day mortality rate, and the 95% confidence interval for the risk-adjusted mortality rate for 2003-2005 for cardiologists in each of the 50 hospitals performing PCI during the time period, and for each of the hospitals. Table 3 also contains the volume and risk-adjusted in-hospital mortality rate for cardiologists and hospitals for non-emergency cases.

This information is presented for each cardiologist who (a) performed 200 or more PCIs during 2003-2005, and/or (b) performed at least one PCI in each of the years 2003-2005. The results for cardiologists not meeting the above criteria are grouped together and reported as "All Others" in the hospital in which the procedures were performed. Cardiologists who met criterion (a) or (b) above and performed procedures in more than one hospital are noted in the table and are listed in all hospitals in which they performed procedures during 2003-2005.

Also, cardiologists who met criterion (a) and/or criterion (b) above and have performed PCI in two or more New York State hospitals are listed separately in Table 4. For these cardiologists, the table presents the number of PCIs, the number of in-hospital/30-day deaths, observed mortality rate, expected mortality rate and risk-adjusted in-hospital/30-day mortality rate with its 95 percent confidence interval for each hospital in which the cardiologist performed PCI, as well as the aggregate numbers (across all hospitals in which the cardiologist performed procedures). In addition, cardiologists and hospitals with risk-adjusted mortality rates that are significantly lower or higher than the statewide mortality rate (as judged by a 95% confidence interval) are noted in Tables 3 and 4.

It should be noted that MI less than 24 hours before the procedure, shock and hemodynamic instability are significant risk factors in the All Cases model. However, patients with these conditions are excluded from the non-emergency analysis. The outcomes models for the two groups can, therefore, yield substantially different risk-adjusted mortality rates. It is important to compare providers' RAMR to the statewide average mortality rate for the specific group of patients analyzed.

Table 3 Cardiologist Observed, Expected, and Risk-Adjusted Mortality Rates (RAMR) for PCI in New York State, 2003 - 2005 Discharges

	ALL CASES						NON-EMERGENCY	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Statewide Total	159839	1477	0.92				141865	0.63
Albany Medical Center Hospital								
#Bishop G	25	0	0.00	0.41	0.00	(0.00,33.08)	23	0.00
##Brady S	600	9	1.50	1.02	1.35	(0.62, 2.57)	479	1.28
##Delago A	1386	12	0.87	0.80	1.00	(0.52, 1.75)	1232	0.61
##Esper D	241	6	2.49	1.28	1.80	(0.66, 3.91)	180	2.44*
##Hogan R	358	2	0.56	0.47	1.09	(0.12, 3.93)	354	0.75
Houghton J	346	7	2.02	0.69	2.72 *	(1.09, 5.61)	279	0.51
#Macina A	120	0	0.00	1.04	0.00	(0.00, 2.71)	63	0.00
#Mani A	242	5	2.07	1.14	1.68	(0.54, 3.92)	187	1.58
#Marmulstein M	1	0	0.00	0.05	0.00	(0.00,100.0)	1	0.00
##Papaleo R	265	5	1.89	0.71	2.45	(0.79, 5.71)	235	1.73
##Papandrea L	72	0	0.00	1.27	0.00	(0.00, 3.71)	43	0.00
#Roccario E	6	0	0.00	1.88	0.00	(0.00,30.12)	4	0.00
All Others	5	0	0.00	0.44	0.00	(0.00,100.0)	5	0.00
TOTAL	3667	46	1.25	0.86	1.35 *	(0.99, 1.80)	3085	0.97

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Arnot-Ogden Medical Center								
Laifer L	538	3	0.56	0.65	0.79	(0.16, 2.31)	434	0.69
#Wasserman H	1	0	0.00	0.49	0.00	(0.00,100.0)	1	0.00
##Winer H	407	3	0.74	1.12	0.61	(0.12, 1.78)	285	0.64
TOTAL	946	6	0.63	0.85	0.69	(0.25, 1.50)	720	0.66
Bellevue Hospital Center								
#Attubato M	245	4	1.63	1.20	1.26	(0.34, 3.23)	218	0.42
#Babaev A	17	0	0.00	0.59	0.00	(0.00,33.69)	10	0.00
#Feit F	241	0	0.00	0.59	0.00	(0.00, 2.37)	227	0.00
#Keller N	228	3	1.32	1.53	0.79	(0.16, 2.31)	194	0.00
#Pena Sing I	328	1	0.30	0.75	0.38	(0.00, 2.10)	302	0.00
##Slater J	140	2	1.43	0.98	1.34	(0.15, 4.85)	124	0.67
##Winer H	7	0	0.00	0.69	0.00	(0.00,69.78)	7	0.00
All Others	8	0	0.00	0.82	0.00	(0.00,51.40)	7	0.00
TOTAL	1214	10	0.82	0.98	0.78	(0.37, 1.43)	1089	0.18
Beth Israel Medical Center								
#Bhambhani G	113	0	0.00	0.22	0.00	(0.00,13.35)	113	0.00
#Brown D	331	7	2.11	1.29	1.52	(0.61, 3.13)	298	0.92
Fox J	1833	16	0.87	1.00	0.81	(0.46, 1.31)	1732	0.52
##Kantrowitz N	267	2	0.75	0.56	1.23	(0.14, 4.43)	265	0.87
#Nero T	348	7	2.01	1.07	1.73	(0.69, 3.57)	303	1.38
Patel R H	100	1	1.00	0.79	1.16	(0.02, 6.47)	99	1.01
#Reimers C	441	5	1.13	0.58	1.82	(0.59, 4.25)	432	1.10
#Rentrop K	8	0	0.00	0.19	0.00	(0.00,100.0)	8	0.00
##Sacchi T	129	0	0.00	0.57	0.00	(0.00, 4.62)	129	0.00
#Shaknovich A	350	3	0.86	0.55	1.44	(0.29, 4.21)	349	1.08
#Siddiqi R	9	0	0.00	0.64	0.00	(0.00,59.04)	9	0.00
#Wilentz J	20	0	0.00	0.23	0.00	(0.00,74.31)	19	0.00
All Others	139	1	0.72	1.15	0.58	(0.01, 3.22)	120	0.00
TOTAL	4088	42	1.03	0.88	1.08	(0.78, 1.47)	3876	0.70
Buffalo General Hospital								
Conley J	1618	9	0.56	0.52	0.98	(0.45, 1.86)	1585	0.52
##Corbelli J	3	0	0.00	1.39	0.00	(0.00,81.35)	.	.
##Emerson R	1	0	0.00	0.21	0.00	(0.00,100.0)	1	0.00
Farhi E	1004	10	1.00	1.16	0.79	(0.38, 1.46)	909	0.62
#Masud A	374	2	0.53	0.52	0.96	(0.11, 3.46)	362	0.74
##Morris W	435	7	1.61	1.11	1.34	(0.54, 2.77)	412	1.04
Paris J	95	0	0.00	0.41	0.00	(0.00, 8.69)	91	0.00
##Phadke K	1	0	0.00	0.66	0.00	(0.00,100.0)	1	0.00
Sullivan P	83	2	2.41	0.36	6.21	(0.70,22.41)	80	2.30
Visco J	1280	11	0.86	0.44	1.80	(0.90, 3.23)	1249	0.97
##Young H	15	0	0.00	0.48	0.00	(0.00,47.28)	14	0.00
TOTAL	4909	41	0.84	0.68	1.14	(0.82, 1.54)	4704	0.73

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Champlain Valley Physicians Hospital								
#Garrand T	201	2	1.00	0.80	1.14	(0.13, 4.13)	152	1.96
TOTAL	201	2	1.00	0.80	1.14	(0.13, 4.13)	152	1.96
City Hospital at Elmhurst								
#Kamran M	124	5	4.03	2.56	1.45	(0.47, 3.39)	.	.
#Kim M	36	2	5.56	1.75	2.94	(0.33,10.60)	.	.
#Krishnan P	19	0	0.00	5.89	0.00	(0.00, 3.03)	.	.
##Suleman J	10	0	0.00	2.94	0.00	(0.00,11.52)	.	.
TOTAL	189	7	3.70	2.76	1.24	(0.50, 2.55)	.	.
Crouse Hospital								
#Alfaro-Franco C	166	1	0.60	0.43	1.29	(0.02, 7.20)	160	0.00
#Amin N	234	1	0.43	0.73	0.54	(0.01, 3.00)	205	0.58
#Battaglia J	933	5	0.54	0.58	0.86	(0.28, 2.00)	872	0.64
#Berkery W	404	5	1.24	1.55	0.74	(0.24, 1.72)	342	0.47
#Caputo R	96	1	1.04	0.90	1.06	(0.01, 5.92)	88	0.00
#Esente P	29	0	0.00	0.45	0.00	(0.00,25.97)	27	0.00
#Ford T	164	1	0.61	0.50	1.12	(0.01, 6.22)	148	0.00
#Giambartolomei A	44	0	0.00	0.46	0.00	(0.00,16.87)	37	0.00
#Iskander A	6	0	0.00	0.18	0.00	(0.00,100.0)	6	0.00
#Lozner E	208	1	0.48	1.34	0.33	(0.00, 1.84)	185	0.55
#Reger M	33	0	0.00	0.75	0.00	(0.00,13.75)	30	0.00
#Simons A	66	1	1.52	0.70	1.99	(0.03,11.10)	62	1.58
All Others	33	0	0.00	0.51	0.00	(0.00,20.07)	29	0.00
TOTAL	2416	16	0.66	0.82	0.75	(0.43, 1.21)	2191	0.48
Ellis Hospital								
#Card H	5	0	0.00	0.19	0.00	(0.00,100.0)	5	0.00
Cospito P	445	4	0.90	1.03	0.81	(0.22, 2.07)	348	0.53
#Dempsey S	137	1	0.73	0.84	0.80	(0.01, 4.47)	128	0.66
##Hogan R	321	0	0.00	0.55	0.00	(0.00, 1.91)	315	0.00
Jordan M	407	3	0.74	1.24	0.55	(0.11, 1.61)	274	0.77
#Kufs W	154	1	0.65	0.48	1.25	(0.02, 6.95)	147	0.83
Parkes R	664	7	1.05	1.07	0.91	(0.37, 1.88)	513	0.82
Weitz S	377	7	1.86	1.22	1.41	(0.56, 2.90)	269	1.50
TOTAL	2510	23	0.92	0.99	0.85	(0.54, 1.28)	1999	0.72
Erie County Medical Center								
##Corbelli J	10	0	0.00	0.14	0.00	(0.00,100.0)	10	0.00
Dashkoff N	671	6	0.89	0.83	0.99	(0.36, 2.16)	591	0.40
##Emerson R	46	2	4.35	3.13	1.28	(0.14, 4.64)	26	2.40
##Phadke K	339	5	1.47	0.52	2.63	(0.85, 6.15)	309	1.61
##Young H	45	3	6.67	3.51	1.75	(0.35, 5.12)	5	0.00
TOTAL	1111	16	1.44	0.93	1.43	(0.81, 2.32)	941	0.81

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Glens Falls Hospital								
##Brady S	1	0	0.00	3.59	0.00	(0.00,94.40)	.	.
##Delago A	5	0	0.00	1.36	0.00	(0.00,49.89)	.	.
#Desantis J	41	1	2.44	2.25	1.00	(0.01, 5.56)	.	.
##Esper D	3	0	0.00	2.52	0.00	(0.00,44.87)	.	.
##Hogan R	77	2	2.60	2.73	0.88	(0.10, 3.18)	.	.
##Papaleo R	4	0	0.00	1.65	0.00	(0.00,51.34)	.	.
##Papandrea L	1	0	0.00	0.39	0.00	(0.00,100.0)	.	.
#Rashkow A	1	0	0.00	4.17	0.00	(0.00,81.28)	.	.
TOTAL	133	3	2.26	2.49	0.84	(0.17, 2.44)	.	.
Good Samaritan - Suffern								
Agarwal A	24	0	0.00	1.54	0.00	(0.00, 9.15)	.	.
#Brogno D	63	3	4.76	5.87	0.75	(0.15, 2.19)	.	.
Innerfield M	31	2	6.45	3.74	1.59	(0.18, 5.76)	.	.
#Kovar L	31	1	3.23	5.42	0.55	(0.01, 3.06)	.	.
Shih A	53	1	1.89	5.00	0.35	(0.00, 1.94)	.	.
TOTAL	202	7	3.47	4.73	0.68	(0.27, 1.39)	.	.
Good Samaritan Hosp Med Ctr- West Islip								
##Caselnova R	19	1	5.26	1.86	2.62	(0.03,14.58)	.	.
##Deutsch E	23	0	0.00	1.38	0.00	(0.00,10.66)	.	.
##Hormozi S	30	1	3.33	2.89	1.06	(0.01, 5.92)	.	.
##Lee P J	67	3	4.48	2.18	1.90	(0.38, 5.56)	.	.
##Patel R B	56	3	5.36	2.20	2.25	(0.45, 6.57)	.	.
##Reich D	50	2	4.00	1.77	2.09	(0.23, 7.53)	.	.
##Schwartz R	2	0	0.00	1.26	0.00	(0.00,100.0)	.	.
All Others	1	0	0.00	1.85	0.00	(0.00,100.0)	.	.
TOTAL	248	10	4.03	2.08	1.79	(0.86, 3.29)	.	.
Huntington Hospital								
##Freeman J	1	0	0.00	1.09	0.00	(0.00,100.0)	.	.
##Jauhar R	2	0	0.00	0.66	0.00	(0.00,100.0)	.	.
##Kaplan B	1	0	0.00	0.40	0.00	(0.00,100.0)	.	.
##Marchant D	1	0	0.00	0.42	0.00	(0.00,100.0)	.	.
##Park C	1	0	0.00	0.44	0.00	(0.00,100.0)	.	.
#Patcha R	21	1	4.76	1.08	4.09	(0.05,22.74)	.	.
##Strizik B	13	1	7.69	3.70	1.92	(0.03,10.69)	.	.
TOTAL	40	2	5.00	1.86	2.48	(0.28, 8.97)	.	.
Lenox Hill Hospital								
Cohen H	327	4	1.22	0.83	1.36	(0.37, 3.49)	308	0.62
#Collins M	815	7	0.86	0.75	1.06	(0.43, 2.19)	787	0.68
#Colombo A	61	0	0.00	0.96	0.00	(0.00, 5.78)	61	0.00
#Dangas G	511	7	1.37	0.93	1.36	(0.55, 2.81)	477	1.04
#Dominguez A	339	6	1.77	0.90	1.81	(0.66, 3.94)	337	1.28

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Lenox Hill Hospital, <i>continued</i>								
Garratt K	259	4	1.54	0.99	1.44	(0.39, 3.69)	235	1.13
##Geizhals M	151	1	0.66	0.58	1.05	(0.01, 5.84)	151	0.72
Halkin A	230	3	1.30	1.02	1.19	(0.24, 3.47)	212	0.71
Iyer S	576	2	0.35	0.94	0.34	(0.04, 1.23)	543	0.34
#Kreps E	469	3	0.64	1.05	0.56	(0.11, 1.64)	442	0.37
Lasic Z	215	0	0.00	0.88	0.00	(0.00, 1.79)	192	0.00
#Leon M	523	7	1.34	0.82	1.50	(0.60, 3.10)	511	0.98
#Mehran R	34	0	0.00	1.39	0.00	(0.00, 7.17)	32	0.00
#Moses J	1504	5	0.33	0.58	0.53	(0.17, 1.23)	1497	0.31
#Moussa I	850	8	0.94	0.91	0.96	(0.41, 1.88)	817	0.75
#Reimers C	619	5	0.81	0.77	0.97	(0.31, 2.27)	584	0.64
Roubin G	717	7	0.98	0.83	1.09	(0.44, 2.25)	681	0.90
#Stone G	318	3	0.94	1.15	0.76	(0.15, 2.22)	293	0.49
#Teirstein P	79	1	1.27	1.00	1.16	(0.02, 6.48)	76	1.10
All Others	263	1	0.38	0.83	0.43	(0.01, 2.37)	251	0.31
TOTAL	8860	74	0.84	0.83	0.93	(0.73, 1.16)	8487	0.65
Long Island College Hospital								
##Kantrowitz N	14	0	0.00	1.90	0.00	(0.00,12.74)	.	.
TOTAL	14	0	0.00	1.90	0.00	(0.00,12.74)	.	.
Long Island Jewish Medical Center								
##Freeman J	26	0	0.00	5.16	0.00	(0.00, 2.52)	5	0.00
##Friedman G	513	7	1.36	1.21	1.05	(0.42, 2.16)	457	0.92
#Green S	17	0	0.00	3.79	0.00	(0.00, 5.26)	2	0.00
##Grunwald A	625	5	0.80	0.95	0.78	(0.25, 1.82)	572	0.44
Hameedi A	134	0	0.00	0.20	0.00	(0.00,12.46)	133	0.00
##Hormozi S	3	0	0.00	0.39	0.00	(0.00,100.0)	3	0.00
##Jauhar R	1107	7	0.63	0.98	0.60	(0.24, 1.23)	951	0.70
##Kaplan B	1318	6	0.46	0.98	0.43	(0.16, 0.94)	1193	0.37
#Katz S	21	1	4.76	5.66	0.78	(0.01, 4.32)	3	0.00
#Kim B	34	0	0.00	0.37	0.00	(0.00,26.84)	34	0.00
##Koss J	542	5	0.92	0.88	0.97	(0.31, 2.27)	487	0.85
#Lee A	16	1	6.25	8.07	0.72	(0.01, 3.98)	2	0.00
##Lee P J	13	1	7.69	0.53	13.39	(0.17,74.49)	13	8.81
##Marchant D	20	0	0.00	1.96	0.00	(0.00, 8.63)	1	0.00
#Ong L Y	19	0	0.00	2.65	0.00	(0.00, 6.73)	2	0.00
#Padmanabhan V	28	0	0.00	0.67	0.00	(0.00,18.20)	25	0.00
##Park C	528	5	0.95	1.55	0.56	(0.18, 1.32)	422	0.42
##Park J	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
##Reich D	127	0	0.00	1.07	0.00	(0.00, 2.50)	125	0.00
##Strizik B	72	1	1.39	1.08	1.19	(0.02, 6.61)	72	0.79
##Suleman J	23	0	0.00	0.46	0.00	(0.00,32.11)	23	0.00
All Others	51	1	1.96	0.55	3.28	(0.04,18.26)	50	2.29
TOTAL	5238	40	0.76	1.09	0.64 **	(0.46, 0.88)	4576	0.57

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Maimonides Medical Center								
Borgen E	1040	10	0.96	1.22	0.73	(0.35, 1.34)	917	0.54
Frankel R	658	6	0.91	1.07	0.79	(0.29, 1.71)	623	0.64
Friedman M	389	4	1.03	1.17	0.81	(0.22, 2.08)	345	0.39
Malik B	915	12	1.31	1.31	0.92	(0.48, 1.61)	777	0.58
##Sacchi T	174	2	1.15	0.46	2.32	(0.26, 8.37)	174	1.53
Shani J	1304	12	0.92	0.94	0.90	(0.47, 1.58)	1281	0.61
All Others	2	0	0.00	0.16	0.00	(0.00,100.0)	2	0.00
TOTAL	4482	46	1.03	1.10	0.86	(0.63, 1.15)	4119	0.59
Mary Imogene Bassett Hospital								
Clark V	217	3	1.38	0.89	1.44	(0.29, 4.20)	174	1.33
#Irobunda C	1	0	0.00	0.05	0.00	(0.00,100.0)	1	0.00
#Rashkow A	98	2	2.04	0.96	1.95	(0.22, 7.06)	81	1.56
#Warshofsky M	5	0	0.00	1.25	0.00	(0.00,54.34)	1	0.00
All Others	200	4	2.00	1.34	1.38	(0.37, 3.54)	149	0.00
TOTAL	521	9	1.73	1.08	1.48	(0.68, 2.81)	406	0.85
Mercy Hospital								
#Calandra S	311	3	0.96	0.95	0.94	(0.19, 2.75)	241	0.74
##Emerson R	353	1	0.28	1.23	0.21	(0.00, 1.19)	244	0.32
#Gelormini J	285	3	1.05	1.08	0.90	(0.18, 2.62)	249	0.00
#Haq N	418	2	0.48	1.11	0.40	(0.04, 1.44)	347	0.00
##Morris W	229	1	0.44	1.28	0.32	(0.00, 1.75)	175	0.00
##Young H	32	1	3.13	1.71	1.68	(0.02, 9.37)	23	0.00
TOTAL	1628	11	0.68	1.13	0.55	(0.27, 0.98)	1279	0.19 **
Millard Fillmore Hospital								
#Calandra S	351	3	0.85	0.64	1.23	(0.25, 3.60)	344	0.87
##Corbelli J	623	7	1.12	0.84	1.24	(0.50, 2.55)	568	1.32
##Emerson R	3	0	0.00	0.72	0.00	(0.00,100.0)	3	0.00
#Gelormini J	257	1	0.39	0.78	0.46	(0.01, 2.55)	240	0.38
#Haq N	7	0	0.00	0.67	0.00	(0.00,72.46)	7	0.00
#Masud A	241	2	0.83	0.85	0.90	(0.10, 3.25)	225	0.40
##Morris W	579	3	0.52	0.85	0.56	(0.11, 1.65)	554	0.37
##Phadke K	696	5	0.72	0.88	0.75	(0.24, 1.76)	598	0.37
##Young H	4	0	0.00	0.65	0.00	(0.00,100.0)	3	0.00
All Others	115	2	1.74	1.39	1.16	(0.13, 4.17)	97	0.00
TOTAL	2876	23	0.80	0.84	0.87	(0.55, 1.31)	2639	0.61
Montefiore Medical Center - Einstein								
Gotsis W	786	10	1.27	0.48	2.46 *	(1.18, 4.52)	739	1.67*
Monrad E	559	5	0.89	0.79	1.05	(0.34, 2.45)	505	0.74
Silverman G	561	6	1.07	0.77	1.28	(0.47, 2.78)	506	0.84
Srinivas V	625	5	0.80	0.94	0.78	(0.25, 1.83)	567	0.32
All Others	9	1	11.11	1.79	5.73	(0.07,31.90)	5	0.00
TOTAL	2540	27	1.06	0.73	1.34	(0.89, 1.96)	2322	0.85

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Montefiore Medical Center - Moses								
#Goldman A Y	389	3	0.77	1.31	0.54	(0.11, 1.58)	362	0.27
Greenberg M	720	5	0.69	0.78	0.82	(0.26, 1.91)	648	0.36
#Grose R	175	3	1.71	0.62	2.57	(0.52, 7.50)	163	0.73
#Johnson M	272	2	0.74	0.83	0.82	(0.09, 2.94)	258	0.81
Menegus M	741	9	1.21	0.90	1.25	(0.57, 2.37)	649	0.80
All Others	10	0	0.00	0.53	0.00	(0.00,64.49)	10	0.00
TOTAL	2307	22	0.95	0.90	0.98	(0.61, 1.48)	2090	0.56
Mt. Sinai Hospital								
#Kamran M	630	0	0.00	0.60	0.00**	(0.00, 0.90)	605	0.00
#Kim M	1280	18	1.41	1.18	1.10	(0.65, 1.74)	1212	0.82
Kini A	1941	13	0.67	1.05	0.59	(0.31, 1.00)	1809	0.32
#Krishnan P	230	7	3.04	1.35	2.09	(0.84, 4.31)	200	2.44 *
#Lee J	216	1	0.46	0.69	0.62	(0.01, 3.44)	214	0.42
#Mittal N	459	1	0.22	0.35	0.57	(0.01, 3.17)	458	0.39
Moreno P	581	6	1.03	1.52	0.63	(0.23, 1.37)	500	0.58
Sharma S	3170	24	0.76	0.94	0.74	(0.47, 1.10)	3069	0.54
#Sherman W	472	2	0.42	1.20	0.33	(0.04, 1.18)	450	0.00
##Suleman J	551	4	0.73	0.64	1.04	(0.28, 2.67)	523	0.68
All Others	192	2	1.04	0.73	1.32	(0.15, 4.76)	186	1.01
TOTAL	9722	78	0.80	0.98	0.76	(0.60, 0.95)	9226	0.53
NY Methodist Hospital								
#Badero O	39	0	0.00	0.25	0.00	(0.00,35.34)	39	0.00
Puma A	592	12	2.03	0.92	2.03 *	(1.05, 3.55)	579	1.25
#Reddy C	220	3	1.36	1.14	1.10	(0.22, 3.22)	214	0.62
##Sacchi T	777	8	1.03	0.81	1.18	(0.51, 2.32)	743	0.59
#Shaknovich A	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
All Others	15	0	0.00	0.60	0.00	(0.00,37.97)	15	0.00
TOTAL	1644	23	1.40	0.88	1.47*	(0.93, 2.21)	1591	0.80
NYP Hospital - Columbia Presbyterian								
Apfelbaum M	221	1	0.45	0.85	0.49	(0.01, 2.74)	187	0.00
#Brogno D	41	1	2.44	1.12	2.01	(0.03,11.17)	32	3.73
#Collins M	388	4	1.03	1.08	0.88	(0.24, 2.25)	377	0.51
#Colombo A	20	0	0.00	1.06	0.00	(0.00,16.00)	20	0.00
#Dangas G	314	1	0.32	0.77	0.38	(0.00, 2.13)	290	0.00
#Grose R	258	1	0.39	0.69	0.52	(0.01, 2.89)	248	0.39
#Irobunda C	113	3	2.65	1.43	1.71	(0.34, 5.00)	94	1.19
#Johnson M	101	0	0.00	0.53	0.00	(0.00, 6.33)	97	0.00
#Kovar L	11	0	0.00	0.35	0.00	(0.00,87.68)	11	0.00
#Kreps E	171	4	2.34	1.52	1.42	(0.38, 3.64)	162	0.85
#Leon M	181	4	2.21	0.85	2.41	(0.65, 6.17)	177	1.80
#Mehran R	102	2	1.96	1.24	1.46	(0.16, 5.26)	90	0.00
#Moses J	889	6	0.67	0.59	1.05	(0.38, 2.29)	889	0.74

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
NYP Hospital - Columbia Presbyterian, <i>continued</i>								
#Moussa I	349	2	0.57	0.82	0.64	(0.07, 2.32)	336	0.55
#Perry-Bottinger L	34	0	0.00	0.39	0.00	(0.00,25.28)	34	0.00
Rabbani L	355	4	1.13	1.17	0.89	(0.24, 2.29)	297	1.01
Reison D	41	0	0.00	0.36	0.00	(0.00,22.98)	40	0.00
#Sherman W	85	1	1.18	1.24	0.88	(0.01, 4.89)	76	1.11
#Stone G	120	0	0.00	0.76	0.00	(0.00, 3.74)	114	0.00
#Teirstein P	35	0	0.00	0.95	0.00	(0.00,10.15)	35	0.00
#Warshofsky M	182	0	0.00	0.68	0.00	(0.00, 2.74)	177	0.00
#Wasserman H	270	1	0.37	1.21	0.28	(0.00, 1.58)	231	0.00
Weinberger J	263	6	2.28	1.00	2.12	(0.77, 4.61)	229	1.55
All Others	163	3	1.84	1.19	1.43	(0.29, 4.18)	154	1.48
TOTAL	4707	44	0.93	0.90	0.96	(0.70, 1.29)	4397	0.66
NYP Hospital - Weill Cornell								
Bergman G	776	8	1.03	1.48	0.64	(0.28, 1.27)	688	0.40
#Charney R	329	2	0.61	0.92	0.61	(0.07, 2.21)	313	0.00
##Geizhals M	1	0	0.00	0.51	0.00	(0.00,100.0)	1	0.00
Hong M	620	14	2.26	1.70	1.23	(0.67, 2.06)	548	0.95
Iacovone F	399	8	2.01	1.86	1.00	(0.43, 1.97)	351	0.71
#Messinger D	256	0	0.00	1.32	0.00	(0.00, 1.00)	240	0.00
Minutello R	394	3	0.76	1.33	0.53	(0.11, 1.54)	320	0.00
Naidu S	329	7	2.13	1.57	1.25	(0.50, 2.58)	275	0.77
Parikh M	1332	8	0.60	0.76	0.73	(0.32, 1.45)	1253	0.60
#Reddy C	166	3	1.81	0.51	3.29	(0.66, 9.60)	166	2.14
Wong S	596	1	0.17	0.60	0.26	(0.00, 1.43)	557	0.27
All Others	129	1	0.78	1.63	0.44	(0.01, 2.44)	120	0.00
TOTAL	5327	55	1.03	1.18	0.81	(0.61, 1.05)	4832	0.53
NYU Hospitals Center								
##Angelopoulos P	10	0	0.00	0.47	0.00	(0.00,72.83)	10	0.00
#Attubato M	844	6	0.71	0.91	0.72	(0.26, 1.56)	783	0.62
#Babaev A	198	1	0.51	0.76	0.62	(0.01, 3.43)	193	0.00
#Feit F	886	1	0.11	0.62	0.17	(0.00, 0.94)	820	0.15
#Keller N	13	0	0.00	1.45	0.00	(0.00,17.95)	6	0.00
#Pena Sing I	101	1	0.99	1.32	0.69	(0.01, 3.85)	94	0.00
##Slater J	336	5	1.49	0.51	2.71	(0.87, 6.32)	324	1.44
#Staniloae C	8	0	0.00	0.25	0.00	(0.00,100.0)	8	0.00
##Winer H	7	0	0.00	0.35	0.00	(0.00,100.0)	7	0.00
TOTAL	2403	14	0.58	0.75	0.72	(0.39, 1.21)	2245	0.48
New York Hospital Medical Ctr of Queens								
#Chang J	886	10	1.13	0.88	1.19	(0.57, 2.18)	798	0.67
#Chiu S	121	0	0.00	0.41	0.00	(0.00, 6.86)	116	0.00
David M	171	2	1.17	0.82	1.31	(0.15, 4.74)	167	1.12
##Friedman G	17	0	0.00	0.80	0.00	(0.00,24.93)	14	0.00

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
New York Hospital Medical Ctr of Queens, <i>continued</i>								
##Geizhals M	427	3	0.70	0.68	0.96	(0.19, 2.79)	421	0.76
##Grunwald A	28	0	0.00	1.35	0.00	(0.00, 8.95)	26	0.00
Gustafson G	1032	15	1.45	1.05	1.28	(0.72, 2.12)	944	1.13
##Koss J	12	0	0.00	0.28	0.00	(0.00,99.90)	11	0.00
Papadakos S	1011	15	1.48	1.21	1.14	(0.63, 1.87)	870	0.78
##Park J	12	0	0.00	0.16	0.00	(0.00,100.0)	12	0.00
#Perry-Bottinger L	12	0	0.00	0.66	0.00	(0.00,42.98)	12	0.00
TOTAL	3729	45	1.21	0.97	1.15	(0.84, 1.53)	3391	0.84
North Shore University Hospital								
##Angelopoulos P	30	0	0.00	0.56	0.00	(0.00,20.12)	23	0.00
##Balchandani R	5	0	0.00	0.44	0.00	(0.00,100.0)	5	0.00
##Caselnova R	396	4	1.01	0.72	1.29	(0.35, 3.31)	378	0.96
#Chang J	2	0	0.00	0.22	0.00	(0.00,100.0)	1	0.00
#Dervan J	3	0	0.00	0.14	0.00	(0.00,100.0)	3	0.00
##Deutsch E	545	1	0.18	0.63	0.27	(0.00, 1.49)	532	0.24
##Freeman J	1198	12	1.00	0.93	1.00	(0.52, 1.74)	1003	1.09
##Friedman G	109	3	2.75	0.90	2.81	(0.56, 8.21)	102	2.45
#Gambino A	140	1	0.71	0.35	1.89	(0.02,10.51)	134	1.39
#Green S	939	11	1.17	1.02	1.06	(0.53, 1.90)	772	0.29
##Grella R	5	0	0.00	0.21	0.00	(0.00,100.0)	5	0.00
##Grunwald A	58	1	1.72	1.57	1.02	(0.01, 5.65)	49	1.33
##Hormozi S	241	1	0.41	0.45	0.85	(0.01, 4.71)	236	0.61
##Jauhar R	40	2	5.00	2.84	1.62	(0.18, 5.87)	4	0.00
##Kaplan B	50	1	2.00	1.91	0.97	(0.01, 5.38)	4	0.00
#Katz S	904	4	0.44	0.77	0.53	(0.14, 1.36)	809	0.29
#Kim B	19	0	0.00	0.17	0.00	(0.00,100.0)	19	0.00
##Koss J	72	2	2.78	1.08	2.39	(0.27, 8.62)	62	0.00
##Lederman S	283	4	1.41	0.56	2.33	(0.63, 5.97)	276	1.71
#Lee A	436	6	1.38	1.26	1.01	(0.37, 2.20)	346	0.92
##Lee P J	646	3	0.46	0.51	0.84	(0.17, 2.46)	636	0.61
##Marchant D	474	3	0.63	1.01	0.58	(0.12, 1.70)	367	0.30
#Ong L Y	1158	3	0.26	1.06	0.23 **	(0.05, 0.66)	1013	0.22
#Padmanabhan V	178	1	0.56	1.09	0.48	(0.01, 2.65)	153	0.00
##Park C	60	1	1.67	2.09	0.74	(0.01, 4.10)	13	0.00
##Park J	184	0	0.00	0.45	0.00	(0.00, 4.06)	177	0.00
#Patcha R	435	3	0.69	0.66	0.97	(0.20, 2.84)	403	0.64
##Patel R B	277	1	0.36	0.58	0.57	(0.01, 3.19)	266	0.43
##Rehman A	1	0	0.00	1.35	0.00	(0.00,100.0)	1	0.00
##Reich D	347	0	0.00	0.60	0.00	(0.00, 1.63)	339	0.00
#Sassower M	44	0	0.00	0.37	0.00	(0.00,20.85)	43	0.00
##Schwartz R	273	1	0.37	0.74	0.46	(0.01, 2.53)	257	0.00
##Strizik B	553	5	0.90	0.86	0.97	(0.31, 2.27)	504	0.82

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
North Shore University Hospital, <i>continued</i>								
#Witkes D	213	0	0.00	0.40	0.00	(0.00, 4.01)	212	0.00
##Zisfein J	300	3	1.00	0.49	1.90	(0.38, 5.54)	292	1.50
All Others	260	1	0.38	0.54	0.65	(0.01, 3.64)	253	0.46
TOTAL	10878	78	0.72	0.82	0.81	(0.64, 1.01)	9692	0.59
Rochester General Hospital								
Berlowitz M	522	6	1.15	0.99	1.07	(0.39, 2.33)	405	0.85
##Chockalingam S	509	7	1.38	0.84	1.51	(0.61, 3.12)	432	0.96
##Doling M	251	2	0.80	0.52	1.41	(0.16, 5.10)	235	1.10
Fitzpatrick P	431	4	0.93	1.00	0.86	(0.23, 2.20)	322	0.74
#Gacioch G	438	5	1.14	0.93	1.14	(0.37, 2.66)	327	0.00
Mathew T M	568	4	0.70	0.76	0.86	(0.23, 2.21)	516	0.94
##Ong L S	2905	22	0.76	0.69	1.01	(0.63, 1.53)	2727	0.64
##Patel T	729	6	0.82	1.01	0.75	(0.27, 1.63)	645	0.36
Scortichini D	340	3	0.88	0.61	1.34	(0.27, 3.91)	322	1.07
#Stuver T	926	10	1.08	1.08	0.92	(0.44, 1.70)	711	0.41
TOTAL	7619	69	0.91	0.83	1.01	(0.79, 1.28)	6642	0.63
SVCMC - St. Vincents								
#Acuna D	168	4	2.38	1.09	2.03	(0.55, 5.19)	130	1.39
Ambrose J	60	0	0.00	0.60	0.00	(0.00, 9.34)	53	0.00
#Bhambhani G	778	4	0.51	0.44	1.07	(0.29, 2.75)	776	0.86
Braff R	108	1	0.93	0.75	1.14	(0.01, 6.34)	87	1.36
#Chiu S	1	0	0.00	0.16	0.00	(0.00,100.0)	1	0.00
Chokshi A	239	0	0.00	0.47	0.00	(0.00, 3.05)	238	0.00
Coppola J	500	3	0.60	1.35	0.41	(0.08, 1.20)	404	0.52
#Dominguez A	231	4	1.73	1.52	1.05	(0.28, 2.69)	224	0.78
Elmqvist T	117	1	0.85	1.42	0.56	(0.01, 3.09)	87	0.94
#Farid A	6	0	0.00	0.52	0.00	(0.00,100.0)	6	0.00
Hasan C	121	2	1.65	0.64	2.37	(0.27, 8.55)	117	1.80
##Kantrowitz N	264	2	0.76	0.94	0.75	(0.08, 2.70)	242	0.31
Kwan T	482	2	0.41	0.41	0.93	(0.10, 3.37)	471	0.72
#Lee J	39	1	2.56	1.22	1.95	(0.03,10.84)	33	0.00
Nguyen T	292	3	1.03	1.54	0.62	(0.12, 1.80)	224	0.31
#Rentrop K	76	0	0.00	0.42	0.00	(0.00,10.65)	75	0.00
Sehhat K	155	3	1.94	1.33	1.34	(0.27, 3.92)	117	0.95
Seldon M	104	6	5.77	2.08	2.57 *	(0.94, 5.59)	73	8.20 *
#Siddiqi R	335	0	0.00	0.51	0.00	(0.00, 1.97)	330	0.00
#Snyder S	1	0	0.00	0.17	0.00	(0.00,100.0)	1	0.00
#Staniloae C	274	3	1.09	0.90	1.12	(0.23, 3.27)	228	0.92
All Others	286	7	2.45	1.35	1.67	(0.67, 3.45)	247	0.79
TOTAL	4637	46	0.99	0.91	1.00	(0.74, 1.34)	4164	0.78

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
South Nassau Communities Hospital								
#Berke A	18	0	0.00	2.44	0.00	(0.00, 7.73)	.	.
#Hamby R	1	0	0.00	1.12	0.00	(0.00,100.0)	.	.
##Hormozi S	4	0	0.00	2.42	0.00	(0.00,34.99)	.	.
#Lituchy A	31	0	0.00	1.16	0.00	(0.00, 9.40)	.	.
#Minadeo J	46	2	4.35	1.89	2.13	(0.24, 7.68)	.	.
#Petrossian G	15	0	0.00	1.95	0.00	(0.00,11.57)	.	.
##Rehman A	7	0	0.00	1.47	0.00	(0.00,32.93)	.	.
##Zisfein J	45	1	2.22	1.81	1.14	(0.01, 6.33)	.	.
TOTAL	167	3	1.80	1.79	0.93	(0.19, 2.71)	.	.
Southside Hospital								
##Caselnova R	6	0	0.00	0.90	0.00	(0.00,62.61)	.	.
##Deutsch E	22	0	0.00	1.94	0.00	(0.00, 7.93)	.	.
##Hormozi S	25	0	0.00	0.99	0.00	(0.00,13.67)	.	.
##Lee P J	38	1	2.63	1.43	1.70	(0.02, 9.43)	.	.
##Patel R B	39	0	0.00	2.64	0.00	(0.00, 3.29)	.	.
##Reich D	42	0	0.00	1.06	0.00	(0.00, 7.60)	.	.
##Schwartz R	1	0	0.00	1.45	0.00	(0.00,100.0)	.	.
TOTAL	173	1	0.58	1.60	0.33	(0.00, 1.86)	.	.
St. Catherine of Siena Hospital								
##Balchandani R	2	0	0.00	0.68	0.00	(0.00,100.0)	.	.
##Deutsch E	5	0	0.00	0.56	0.00	(0.00,100.0)	.	.
##Grella R	1	0	0.00	3.85	0.00	(0.00,88.14)	.	.
##Hormozi S	11	0	0.00	3.90	0.00	(0.00, 7.90)	.	.
##Patel R B	15	0	0.00	1.20	0.00	(0.00,18.83)	.	.
#Rosenband M	6	0	0.00	1.89	0.00	(0.00,29.88)	.	.
#Shlofmitz R	4	0	0.00	0.60	0.00	(0.00,100.0)	.	.
#Tsiamsiouris T	4	0	0.00	2.23	0.00	(0.00,37.98)	.	.
TOTAL	48	0	0.00	1.91	0.00	(0.00, 3.70)	.	.
St. Elizabeth Medical Center								
Gaffney B	238	4	1.68	0.89	1.75	(0.47, 4.47)	220	0.84
Kelberman M	552	6	1.09	0.91	1.11	(0.40, 2.41)	508	0.82
Macisaac H	872	19	2.18	1.12	1.80 *	(1.08, 2.81)	758	1.25
Mathew T C	992	12	1.21	1.15	0.97	(0.50, 1.70)	890	0.63
Nassif R	559	6	1.07	1.07	0.92	(0.34, 2.01)	500	0.53
Patel A	516	2	0.39	1.02	0.35	(0.04, 1.27)	465	0.18
Varma P	611	10	1.64	0.83	1.83	(0.87, 3.36)	546	1.46
TOTAL	4340	59	1.36	1.03	1.22 *	(0.93, 1.58)	3887	0.83
St. Francis Hospital								
Abittan M	504	3	0.60	0.70	0.79	(0.16, 2.30)	490	0.27
Arkonac B	531	3	0.56	1.17	0.45	(0.09, 1.31)	476	0.40
#Berke A	490	6	1.22	1.67	0.68	(0.25, 1.48)	436	0.81

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
St. Francis Hospital, <i>continued</i>								
##Deutsch E	32	0	0.00	0.35	0.00	(0.00,30.67)	32	0.00
Ezratty A	411	0	0.00	0.55	0.00	(0.00, 1.51)	399	0.00
##Friedman G	30	1	3.33	1.40	2.19	(0.03,12.20)	27	2.82
Goldman A B	354	2	0.56	0.76	0.69	(0.08, 2.49)	335	0.53
##Grunwald A	7	0	0.00	0.40	0.00	(0.00,100.0)	7	0.00
Gulotta R	355	3	0.85	0.70	1.12	(0.22, 3.26)	341	0.92
#Hamby R	209	2	0.96	0.55	1.60	(0.18, 5.76)	205	1.19
Hershman R	287	1	0.35	0.42	0.77	(0.01, 4.29)	286	0.00
##Hormozi S	302	7	2.32	0.80	2.67 *	(1.07, 5.51)	277	2.30 *
##Koss J	11	0	0.00	0.50	0.00	(0.00,61.20)	11	0.00
##Lee P J	29	0	0.00	0.31	0.00	(0.00,38.04)	28	0.00
#Lituchy A	649	2	0.31	0.75	0.38	(0.04, 1.37)	607	0.30
Mathew R	448	2	0.45	0.62	0.67	(0.08, 2.41)	442	0.49
#Minadeo J	282	5	1.77	1.20	1.36	(0.44, 3.18)	254	0.71
Oruci E	424	3	0.71	0.81	0.81	(0.16, 2.37)	416	0.64
Pappas T	405	0	0.00	0.51	0.00	(0.00, 1.63)	395	0.00
#Petrossian G	1395	15	1.08	0.87	1.14	(0.64, 1.87)	1304	0.87
Randall A	148	5	3.38	1.38	2.26	(0.73, 5.28)	144	1.63
##Rehman A	768	7	0.91	1.07	0.79	(0.32, 1.62)	693	0.35
#Shlofmitz R	1395	4	0.29	0.41	0.65	(0.18, 1.67)	1372	0.46
Timmermans R	253	2	0.79	0.65	1.12	(0.13, 4.05)	241	0.81
#Tsiamtsiouris T	656	6	0.91	0.75	1.12	(0.41, 2.44)	631	0.80
Venditto J	432	4	0.93	0.99	0.87	(0.23, 2.22)	404	0.47
##Zisfein J	57	0	0.00	0.51	0.00	(0.00,11.69)	53	0.00
All Others	263	4	1.52	0.99	1.41	(0.38, 3.62)	232	0.78
TOTAL	11127	87	0.78	0.80	0.90	(0.72, 1.11)	10538	0.64
St. Josephs Hospital								
#Alfaro-Franco C	77	0	0.00	0.65	0.00	(0.00, 6.80)	48	0.00
#Amin N	167	0	0.00	1.22	0.00	(0.00, 1.66)	124	0.00
Bhan R	674	8	1.19	0.86	1.27	(0.55, 2.51)	614	0.83
#Caputo R	1218	18	1.48	0.93	1.47	(0.87, 2.33)	1085	0.95
#Esente P	269	3	1.12	0.84	1.23	(0.25, 3.59)	256	1.30
#Ford T	137	1	0.73	1.07	0.63	(0.01, 3.52)	101	0.00
#Giambartolomei A	720	8	1.11	1.26	0.82	(0.35, 1.61)	599	0.49
#Iskander A	259	1	0.39	0.96	0.37	(0.00, 2.08)	230	0.39
#Lozner E	106	1	0.94	0.86	1.02	(0.01, 5.67)	79	1.51
O'Hern M	385	5	1.30	1.25	0.96	(0.31, 2.25)	323	0.45
#Reger M	573	1	0.17	0.83	0.19	(0.00, 1.08)	502	0.21
#Simons A	955	8	0.84	0.84	0.93	(0.40, 1.83)	835	0.75
Walford G	637	7	1.10	0.81	1.26	(0.50, 2.59)	544	0.36
All Others	105	0	0.00	0.48	0.00	(0.00, 6.67)	99	0.00
TOTAL	6282	61	0.97	0.94	0.96	(0.73, 1.23)	5439	0.63

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
St. Lukes Roosevelt Hospital-St. Lukes								
#Goldman A Y	10	0	0.00	0.45	0.00	(0.00,74.53)	10	0.00
Leber R	221	2	0.90	0.84	1.00	(0.11, 3.60)	184	0.67
#Nero T	37	0	0.00	1.59	0.00	(0.00, 5.77)	21	0.00
Palazzo A	175	0	0.00	0.71	0.00	(0.00, 2.72)	150	0.00
Simon C	285	5	1.75	1.58	1.03	(0.33, 2.40)	277	0.80
Singh V	976	9	0.92	0.67	1.28	(0.58, 2.42)	903	0.67
##Slater J	135	1	0.74	0.52	1.32	(0.02, 7.32)	133	0.96
Tamis-Holland J	240	4	1.67	0.94	1.64	(0.44, 4.21)	198	0.56
#Wilentz J	430	4	0.93	0.57	1.51	(0.41, 3.86)	399	0.38
TOTAL	2509	25	1.00	0.80	1.15	(0.74, 1.69)	2275	0.64
St. Peters Hospital								
#Bishop G	343	9	2.62	0.92	2.64 *	(1.21, 5.01)	249	2.26 *
##Brady S	110	0	0.00	0.91	0.00	(0.00, 3.38)	87	0.00
#Card H	180	0	0.00	0.68	0.00	(0.00, 2.79)	176	0.00
##Delago A	8	0	0.00	0.69	0.00	(0.00,61.68)	2	0.00
#Dempsey S	5	0	0.00	0.62	0.00	(0.00,100.0)	5	0.00
#Desantis J	206	1	0.49	0.63	0.72	(0.01, 3.99)	174	0.67
##Esper D	277	0	0.00	0.77	0.00	(0.00, 1.60)	243	0.00
#Garrand T	56	1	1.79	0.64	2.58	(0.03,14.38)	49	0.00
#Kufs W	17	0	0.00	0.68	0.00	(0.00,29.25)	13	0.00
#Macina A	3	1	33.33	2.46	12.53	(0.16,69.71)	.	.
#Marmulstein M	210	3	1.43	1.18	1.12	(0.22, 3.27)	144	0.83
Martinelli M	824	4	0.49	0.89	0.50	(0.13, 1.28)	680	0.40
##Papaleo R	47	0	0.00	0.44	0.00	(0.00,16.54)	41	0.00
##Papandrea L	267	1	0.37	0.71	0.49	(0.01, 2.72)	224	0.58
#Roccario E	767	5	0.65	0.92	0.66	(0.21, 1.53)	588	0.36
All Others	28	0	0.00	1.03	0.00	(0.00,11.71)	25	0.00
TOTAL	3348	25	0.75	0.86	0.81	(0.52, 1.19)	2700	0.52
Staten Island University Hospital- North								
#Acuna D	1	0	0.00	0.35	0.00	(0.00,100.0)	1	0.00
Duvvuri S	620	5	0.81	0.77	0.97	(0.31, 2.27)	572	0.57
#Farid A	294	1	0.34	0.46	0.68	(0.01, 3.81)	279	0.00
Homayuni A	402	0	0.00	0.57	0.00	(0.00, 1.48)	371	0.00
Malpeso J	371	7	1.89	0.43	4.01 *	(1.61, 8.27)	329	2.63*
McCord D	484	2	0.41	0.60	0.64	(0.07, 2.30)	439	0.81
Mohan R	191	0	0.00	0.44	0.00	(0.00, 4.05)	168	0.00
Rouvelas P	137	1	0.73	0.85	0.79	(0.01, 4.42)	131	0.67
#Snyder S	207	1	0.48	0.85	0.52	(0.01, 2.91)	191	0.00
Swamy S	363	1	0.28	0.50	0.51	(0.01, 2.85)	346	0.54
Vazzana T	326	4	1.23	0.99	1.15	(0.31, 2.93)	287	1.18
Warchol A	208	0	0.00	0.69	0.00	(0.00, 2.38)	174	0.00
All Others	124	1	0.81	0.70	1.07	(0.01, 5.94)	102	1.39
TOTAL	3728	23	0.62	0.64	0.89	(0.56, 1.33)	3390	0.64

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Strong Memorial Hospital								
##Chockalingam S	21	0	0.00	0.37	0.00	(0.00,43.25)	20	0.00
Cove C	646	12	1.86	1.27	1.35	(0.70, 2.35)	491	1.16
##Doling M	705	8	1.13	0.91	1.15	(0.50, 2.27)	623	1.39
Garringer J	149	1	0.67	0.67	0.93	(0.01, 5.15)	135	0.00
Gassler J	652	11	1.69	0.98	1.59	(0.79, 2.84)	514	0.67
#Ling F	621	3	0.48	0.88	0.51	(0.10, 1.48)	476	0.23
Narins C	877	12	1.37	1.02	1.24	(0.64, 2.17)	688	0.71
##Ong L S	28	0	0.00	1.37	0.00	(0.00, 8.86)	28	0.00
##Patel T	103	0	0.00	0.63	0.00	(0.00, 5.23)	100	0.00
Pomerantz R	276	1	0.36	0.95	0.35	(0.00, 1.96)	175	0.00
TOTAL	4078	48	1.18	0.99	1.10	(0.81, 1.46)	3250	0.75
United Health Services - Wilson Hospital								
Ahmed O	373	4	1.07	1.40	0.71	(0.19, 1.81)	298	0.74
Jamal N	643	6	0.93	1.40	0.61	(0.22, 1.34)	549	0.45
Kashou H	515	6	1.17	0.92	1.17	(0.43, 2.55)	429	1.04
Rehman A U	378	5	1.32	1.60	0.77	(0.25, 1.79)	296	1.25
Stamato N	358	3	0.84	1.25	0.62	(0.12, 1.81)	284	1.04
Traverse P	394	5	1.27	1.80	0.65	(0.21, 1.52)	325	0.29
All Others	112	2	1.79	1.86	0.89	(0.10, 3.20)	80	0.00
TOTAL	2773	31	1.12	1.39	0.74	(0.50, 1.05)	2261	0.73
Unity Hospital								
##Chockalingam S	7	0	0.00	0.91	0.00	(0.00,53.09)	.	.
##Doling M	1	0	0.00	0.27	0.00	(0.00,100.0)	.	.
#Gacioch G	1	0	0.00	0.40	0.00	(0.00,100.0)	.	.
#Ling F	1	0	0.00	2.04	0.00	(0.00,100.0)	.	.
##Ong L S	4	1	25.00	21.71	1.06	(0.01, 5.92)	.	.
##Patel T	121	0	0.00	1.72	0.00	(0.00, 1.63)	.	.
#Stuver T	4	0	0.00	1.63	0.00	(0.00,51.90)	.	.
TOTAL	139	1	0.72	2.24	0.30	(0.00, 1.65)	.	.
University Hospital - Brooklyn								
Afflu E	240	1	0.42	0.45	0.85	(0.01, 4.71)	236	0.65
#Badero O	162	3	1.85	0.58	2.94	(0.59, 8.58)	158	1.52
Cavusoglu E	697	3	0.43	0.70	0.56	(0.11, 1.65)	657	0.48
Chadow H	384	6	1.56	0.75	1.93	(0.70, 4.20)	373	1.65
Feit A	772	5	0.65	0.61	0.99	(0.32, 2.30)	726	0.34
Marmur J	999	6	0.60	0.86	0.65	(0.24, 1.41)	959	0.41
#Mittal N	8	0	0.00	0.13	0.00	(0.00,100.0)	8	0.00
All Others	256	0	0.00	0.63	0.00	(0.00, 2.09)	249	0.00
TOTAL	3518	24	0.68	0.70	0.90	(0.57, 1.33)	3366	0.60

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
University Hospital - SUNY Upstate								
#Battaglia J	120	1	0.83	1.02	0.75	(0.01, 4.18)	102	0.92
#Berkery W	25	0	0.00	0.65	0.00	(0.00,20.89)	18	0.00
Kozman H	549	19	3.46	1.71	1.88 *	(1.13, 2.93)	402	1.17
TOTAL	694	20	2.88	1.55	1.72 *	(1.05, 2.65)	522	1.11
University Hospital - Stony Brook								
##Balchandani R	286	1	0.35	0.88	0.37	(0.00, 2.05)	250	0.41
#Brown D	23	0	0.00	1.29	0.00	(0.00,11.40)	13	0.00
Chernilas J	463	6	1.30	1.15	1.04	(0.38, 2.26)	338	0.49
#Dervan J	553	5	0.90	1.00	0.84	(0.27, 1.95)	500	0.79
##Grella R	517	2	0.39	0.65	0.55	(0.06, 1.98)	471	0.45
Korlipara G	409	5	1.22	0.73	1.55	(0.50, 3.62)	375	0.87
Lawson W	600	9	1.50	1.13	1.23	(0.56, 2.33)	458	0.76
##Lederman S	103	0	0.00	0.87	0.00	(0.00, 3.78)	90	0.00
#Mani A	9	0	0.00	2.30	0.00	(0.00,16.36)	5	0.00
Mirza H	290	6	2.07	1.37	1.39	(0.51, 3.03)	215	0.34
#Rosenband M	643	7	1.09	0.85	1.18	(0.47, 2.44)	616	0.63
Stys A	301	5	1.66	1.49	1.03	(0.33, 2.40)	200	0.31
All Others	250	2	0.80	1.07	0.69	(0.08, 2.50)	188	0.81
TOTAL	4447	48	1.08	1.00	1.00	(0.74, 1.32)	3719	0.58
Vassar Brothers Medical Center								
Gorwara S	604	5	0.83	1.10	0.70	(0.23, 1.63)	445	0.00
Jafar M	1167	8	0.69	0.99	0.64	(0.28, 1.26)	901	0.22
Kantaros L	646	5	0.77	0.99	0.73	(0.23, 1.69)	480	0.75
All Others	86	0	0.00	0.61	0.00	(0.00, 6.50)	69	0.00
TOTAL	2503	18	0.72	1.00	0.66	(0.39, 1.05)	1895	0.27
Westchester Medical Center								
#Charney R	34	0	0.00	0.61	0.00	(0.00,16.31)	34	0.00
Cohen Martin	433	4	0.92	1.14	0.75	(0.20, 1.92)	341	0.30
Hjemdahl-Monsen C	1338	9	0.67	1.07	0.58	(0.27, 1.11)	1131	0.25
Kalapatapu K	1470	9	0.61	0.95	0.59	(0.27, 1.13)	1193	0.35
#Messinger D	32	0	0.00	0.39	0.00	(0.00,26.91)	31	0.00
Pucillo A	998	10	1.00	0.85	1.09	(0.52, 2.00)	845	0.57
Weiss M	391	7	1.79	1.43	1.16	(0.46, 2.39)	312	1.01
All Others	35	0	0.00	0.61	0.00	(0.00,15.86)	27	0.00
TOTAL	4731	39	0.82	1.01	0.75	(0.54, 1.03)	3914	0.40
Winthrop University Hospital								
##Angelopoulos P	106	0	0.00	0.97	0.00	(0.00, 3.29)	87	0.00
##Caselnova R	114	0	0.00	0.84	0.00	(0.00, 3.55)	110	0.00
##Deutsch E	81	0	0.00	0.70	0.00	(0.00, 5.98)	81	0.00
#Gambino A	490	6	1.22	0.91	1.25	(0.46, 2.72)	438	1.06
##Lederman S	59	0	0.00	0.79	0.00	(0.00, 7.26)	56	0.00

Table 3 *continued*

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Winthrop University Hospital, <i>continued</i>								
##Lee P J	64	1	1.56	0.48	3.00	(0.04,16.69)	62	1.91
Marzo K	818	1	0.12	0.79	0.14**	(0.00, 0.80)	737	0.17
##Park J	299	0	0.00	0.62	0.00	(0.00, 1.82)	272	0.00
##Patel R B	30	0	0.00	1.00	0.00	(0.00,11.28)	27	0.00
##Reich D	73	2	2.74	0.59	4.32	(0.49,15.61)	71	2.83
#Sassower M	634	4	0.63	1.04	0.56	(0.15, 1.44)	567	0.36
##Schwartz R	1054	10	0.95	1.01	0.87	(0.42, 1.60)	988	0.64
#Witkes D	268	2	0.75	0.60	1.14	(0.13, 4.13)	253	1.07
All Others	138	3	2.17	0.94	2.14	(0.43, 6.26)	105	1.80
TOTAL	4228	29	0.69	0.87	0.73	(0.49, 1.04)	3854	0.58
Statewide Total	159839	1477	0.92				141865	0.63

* Risk-adjusted mortality rate significantly higher than statewide rate based on 95 percent confidence interval.

** Risk-adjusted mortality rate significantly lower than statewide rate based on 95 percent confidence interval.

Performed procedures in another New York State hospital.

Performed procedures in two or more other New York State hospitals.

Table 4 Summary Information for Cardiologists Practicing at More Than One Hospital, 2003-2005.

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Acuna D	169	4	2.37	1.08	2.02	(0.54, 5.18)	131	1.39
SVCMC- St. Vincents	168	4	2.38	1.09	2.03	(0.55, 5.19)	130	1.39
Staten Island Univ Hosp	1	0	0.00	0.35	0.00	(0.00,100.0)	1	0.00
Alfaro-Franco C	243	1	0.41	0.50	0.76	(0.01, 4.24)	208	0.00
Crouse Hospital	166	1	0.60	0.43	1.29	(0.02, 7.20)	160	0.00
St. Josephs Hospital	77	0	0.00	0.65	0.00	(0.00, 6.80)	48	0.00
Amin N	401	1	0.25	0.94	0.25	(0.00, 1.37)	329	0.29
Crouse Hospital	234	1	0.43	0.73	0.54	(0.01, 3.00)	205	0.58
St. Josephs Hospital	167	0	0.00	1.22	0.00	(0.00, 1.66)	124	0.00
Angelopoulos P	146	0	0.00	0.85	0.00	(0.00, 2.72)	120	0.00
NYU Hospitals Center	10	0	0.00	0.47	0.00	(0.00,72.83)	10	0.00
North Shore Univ Hosp	30	0	0.00	0.56	0.00	(0.00,20.12)	23	0.00
Winthrop Univ. Hosp	106	0	0.00	0.97	0.00	(0.00, 3.29)	87	0.00
Attubato M	1089	10	0.92	0.98	0.87	(0.42, 1.60)	1001	0.58
Bellevue Hospital Ctr	245	4	1.63	1.20	1.26	(0.34, 3.23)	218	0.42
NYU Hospitals Center	844	6	0.71	0.91	0.72	(0.26, 1.56)	783	0.62
Babaev A	215	1	0.47	0.74	0.58	(0.01, 3.21)	203	0.00
Bellevue Hospital Ctr	17	0	0.00	0.59	0.00	(0.00,33.69)	10	0.00
NYU Hospitals Center	198	1	0.51	0.76	0.62	(0.01, 3.43)	193	0.00
Badero O	201	3	1.49	0.52	2.67	(0.54, 7.79)	197	1.39
NY Methodist Hospital	39	0	0.00	0.25	0.00	(0.00,35.34)	39	0.00
Univ.Hosp-Brooklyn	162	3	1.85	0.58	2.94	(0.59, 8.58)	158	1.52
Balchandani R	293	1	0.34	0.87	0.36	(0.00, 2.02)	255	0.40
North Shore Univ Hosp	5	0	0.00	0.44	0.00	(0.00,100.0)	5	0.00
St. Catherine of Siena	2	0	0.00	0.68	0.00	(0.00,100.0)	.	.
Univ.Hosp-Stony Brook	286	1	0.35	0.88	0.37	(0.00, 2.05)	250	0.41
Battaglia J	1053	6	0.57	0.63	0.84	(0.31, 1.82)	974	0.68
Crouse Hospital	933	5	0.54	0.58	0.86	(0.28, 2.00)	872	0.64
Univ.Hosp-SUNY Upstate	120	1	0.83	1.02	0.75	(0.01, 4.18)	102	0.92
Berke A	508	6	1.18	1.70	0.64	(0.24, 1.40)	436	0.81
South Nassau Comm.Hosp	18	0	0.00	2.44	0.00	(0.00, 7.73)	.	.
St. Francis Hospital	490	6	1.22	1.67	0.68	(0.25, 1.48)	436	0.81
Berkery W	429	5	1.17	1.50	0.72	(0.23, 1.68)	360	0.46
Crouse Hospital	404	5	1.24	1.55	0.74	(0.24, 1.72)	342	0.47
Univ.Hosp-SUNY Upstate	25	0	0.00	0.65	0.00	(0.00,20.89)	18	0.00

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Bhambhani G	891	4	0.45	0.41	1.00	(0.27, 2.56)	889	0.80
Beth Israel Med Ctr	113	0	0.00	0.22	0.00	(0.00,13.35)	113	0.00
SVCMC- St. Vincents	778	4	0.51	0.44	1.07	(0.29, 2.75)	776	0.86
Bishop G	368	9	2.45	0.88	2.56*	(1.17, 4.86)	272	2.14*
Albany Medical Center	25	0	0.00	0.41	0.00	(0.00,33.08)	23	0.00
St. Peters Hospital	343	9	2.62	0.92	2.64*	(1.21, 5.01)	249	2.26*
Brady S	711	9	1.27	1.01	1.16	(0.53, 2.20)	566	1.06
Albany Medical Center	600	9	1.50	1.02	1.35	(0.62, 2.57)	479	1.28
Glens Falls Hospital	1	0	0.00	3.59	0.00	(0.00,94.40)	.	.
St. Peters Hospital	110	0	0.00	0.91	0.00	(0.00, 3.38)	87	0.00
Brogno D	104	4	3.85	4.00	0.89	(0.24, 2.27)	32	3.73
Good Sam - Suffern	63	3	4.76	5.87	0.75	(0.15, 2.19)	.	.
NYP- Columbia Presby.	41	1	2.44	1.12	2.01	(0.03,11.17)	32	3.73
Brown D	354	7	1.98	1.29	1.42	(0.57, 2.93)	311	0.86
Beth Israel Med Ctr	331	7	2.11	1.29	1.52	(0.61, 3.13)	298	0.92
Univ.Hosp-Stony Brook	23	0	0.00	1.29	0.00	(0.00,11.40)	13	0.00
Calandra S	662	6	0.91	0.79	1.07	(0.39, 2.32)	585	0.81
Mercy Hospital	311	3	0.96	0.95	0.94	(0.19, 2.75)	241	0.74
Millard Fillmore Hosp	351	3	0.85	0.64	1.23	(0.25, 3.60)	344	0.87
Caputo R	1314	19	1.45	0.93	1.44	(0.87, 2.25)	1173	0.88
Crouse Hospital	96	1	1.04	0.90	1.06	(0.01, 5.92)	88	0.00
St. Josephs Hospital	1218	18	1.48	0.93	1.47	(0.87, 2.33)	1085	0.95
Card H	185	0	0.00	0.66	0.00	(0.00, 2.77)	181	0.00
Ellis Hospital	5	0	0.00	0.19	0.00	(0.00,100.0)	5	0.00
St. Peters Hospital	180	0	0.00	0.68	0.00	(0.00, 2.79)	176	0.00
Caselnova R	535	5	0.93	0.79	1.09	(0.35, 2.56)	488	0.73
Good Sam - West Islip	19	1	5.26	1.86	2.62	(0.03,14.58)	.	.
North Shore Univ Hosp	396	4	1.01	0.72	1.29	(0.35, 3.31)	378	0.96
Southside Hospital	6	0	0.00	0.90	0.00	(0.00,62.61)	.	.
Winthrop Univ. Hosp	114	0	0.00	0.84	0.00	(0.00, 3.55)	110	0.00
Chang J	888	10	1.13	0.88	1.19	(0.57, 2.18)	799	0.67
NY Hospital - Queens	886	10	1.13	0.88	1.19	(0.57, 2.18)	798	0.67
North Shore Univ Hosp	2	0	0.00	0.22	0.00	(0.00,100.0)	1	0.00
Charney R	363	2	0.55	0.89	0.57	(0.06, 2.07)	347	0.00
NYP- Weill Cornell	329	2	0.61	0.92	0.61	(0.07, 2.21)	313	0.00
Westchester Med Ctr	34	0	0.00	0.61	0.00	(0.00,16.31)	34	0.00

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Chiu S	122	0	0.00	0.41	0.00	(0.00, 6.84)	117	0.00
NY Hospital - Queens	121	0	0.00	0.41	0.00	(0.00, 6.86)	116	0.00
SVCMC- St. Vincents	1	0	0.00	0.16	0.00	(0.00,100.0)	1	0.00
Chockalingam S	537	7	1.30	0.82	1.47	(0.59, 3.02)	452	0.93
Rochester General Hosp	509	7	1.38	0.84	1.51	(0.61, 3.12)	432	0.96
Strong Memorial Hosp	21	0	0.00	0.37	0.00	(0.00,43.25)	20	0.00
Unity Hospital	7	0	0.00	0.91	0.00	(0.00,53.09)	.	.
Collins M	1203	11	0.91	0.86	0.99	(0.49, 1.77)	1164	0.60
Lenox Hill Hospital	815	7	0.86	0.75	1.06	(0.43, 2.19)	787	0.68
NYP- Columbia Presby.	388	4	1.03	1.08	0.88	(0.24, 2.25)	377	0.51
Colombo A	81	0	0.00	0.99	0.00	(0.00, 4.25)	81	0.00
Lenox Hill Hospital	61	0	0.00	0.96	0.00	(0.00, 5.78)	61	0.00
NYP- Columbia Presby.	20	0	0.00	1.06	0.00	(0.00,16.00)	20	0.00
Corbelli J	636	7	1.10	0.83	1.22	(0.49, 2.52)	578	1.32
Buffalo General Hosp	3	0	0.00	1.39	0.00	(0.00,81.35)	.	.
Erie County Med Ctr	10	0	0.00	0.14	0.00	(0.00,100.0)	10	0.00
Millard Fillmore Hosp	623	7	1.12	0.84	1.24	(0.50, 2.55)	568	1.32
Dangas G	825	8	0.97	0.87	1.03	(0.44, 2.03)	767	0.70
Lenox Hill Hospital	511	7	1.37	0.93	1.36	(0.55, 2.81)	477	1.04
NYP- Columbia Presby.	314	1	0.32	0.77	0.38	(0.00, 2.13)	290	0.00
Delago A	1399	12	0.86	0.80	0.99	(0.51, 1.73)	1234	0.61
Albany Medical Center	1386	12	0.87	0.80	1.00	(0.52, 1.75)	1232	0.61
Glens Falls Hospital	5	0	0.00	1.36	0.00	(0.00,49.89)	.	.
St. Peters Hospital	8	0	0.00	0.69	0.00	(0.00,61.68)	2	0.00
Dempsey S	142	1	0.70	0.83	0.78	(0.01, 4.35)	133	0.63
Ellis Hospital	137	1	0.73	0.84	0.80	(0.01, 4.47)	128	0.66
St. Peters Hospital	5	0	0.00	0.62	0.00	(0.00,100.0)	5	0.00
Dervan J	556	5	0.90	0.99	0.84	(0.27, 1.95)	503	0.79
North Shore Univ Hosp	3	0	0.00	0.14	0.00	(0.00,100.0)	3	0.00
Univ.Hosp-Stony Brook	553	5	0.90	1.00	0.84	(0.27, 1.95)	500	0.79
Desantis J	247	2	0.81	0.90	0.83	(0.09, 3.01)	174	0.67
Glens Falls Hospital	41	1	2.44	2.25	1.00	(0.01, 5.56)	.	.
St. Peters Hospital	206	1	0.49	0.63	0.72	(0.01, 3.99)	174	0.67

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Deutsch E	708	1	0.14	0.69	0.19	(0.00, 1.05)	645	0.19
Good Sam - West Islip	23	0	0.00	1.38	0.00	(0.00,10.66)	.	.
North Shore Univ Hosp	545	1	0.18	0.63	0.27	(0.00, 1.49)	532	0.24
Southside Hospital	22	0	0.00	1.94	0.00	(0.00, 7.93)	.	.
St. Catherine of Siena	5	0	0.00	0.56	0.00	(0.00,100.0)	.	.
St. Francis Hospital	32	0	0.00	0.35	0.00	(0.00,30.67)	32	0.00
Winthrop Univ. Hosp	81	0	0.00	0.70	0.00	(0.00, 5.98)	81	0.00
Doling M	957	10	1.04	0.81	1.20	(0.57, 2.20)	858	1.32*
Rochester General Hosp	251	2	0.80	0.52	1.41	(0.16, 5.10)	235	1.10
Strong Memorial Hosp	705	8	1.13	0.91	1.15	(0.50, 2.27)	623	1.39
Unity Hospital	1	0	0.00	0.27	0.00	(0.00,100.0)	.	.
Dominguez A	570	10	1.75	1.16	1.40	(0.67, 2.58)	561	1.05
Lenox Hill Hospital	339	6	1.77	0.90	1.81	(0.66, 3.94)	337	1.28
SVCMC- St. Vincents	231	4	1.73	1.52	1.05	(0.28, 2.69)	224	0.78
Emerson R	403	3	0.74	1.44	0.48	(0.10, 1.40)	274	0.56
Buffalo General Hosp	1	0	0.00	0.21	0.00	(0.00,100.0)	1	0.00
Erie County Med Ctr	46	2	4.35	3.13	1.28	(0.14, 4.64)	26	2.40
Mercy Hospital	353	1	0.28	1.23	0.21	(0.00, 1.19)	244	0.32
Millard Fillmore Hosp	3	0	0.00	0.72	0.00	(0.00,100.0)	3	0.00
Esente P	298	3	1.01	0.80	1.16	(0.23, 3.39)	283	1.19
Crouse Hospital	29	0	0.00	0.45	0.00	(0.00,25.97)	27	0.00
St. Josephs Hospital	269	3	1.12	0.84	1.23	(0.25, 3.59)	256	1.30
Esper D	521	6	1.15	1.01	1.05	(0.38, 2.29)	423	1.07
Albany Medical Center	241	6	2.49	1.28	1.80	(0.66, 3.91)	180	2.44*
Glens Falls Hospital	3	0	0.00	2.52	0.00	(0.00,44.87)	.	.
St. Peters Hospital	277	0	0.00	0.77	0.00	(0.00, 1.60)	243	0.00
Farid A	300	1	0.33	0.46	0.67	(0.01, 3.72)	285	0.00
SVCMC- St. Vincents	6	0	0.00	0.52	0.00	(0.00,100.0)	6	0.00
Staten Island Univ Hosp	294	1	0.34	0.46	0.68	(0.01, 3.81)	279	0.00
Feit F	1127	1	0.09	0.61	0.13 **	(0.00, 0.75)	1047	0.11
Bellevue Hospital Ctr	241	0	0.00	0.59	0.00	(0.00, 2.37)	227	0.00
NYU Hospitals Center	886	1	0.11	0.62	0.17	(0.00, 0.94)	820	0.15
Ford T	301	2	0.66	0.76	0.81	(0.09, 2.92)	249	0.00
Crouse Hospital	164	1	0.61	0.50	1.12	(0.01, 6.22)	148	0.00
St. Josephs Hospital	137	1	0.73	1.07	0.63	(0.01, 3.52)	101	0.00

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Freeman J	1225	12	0.98	1.02	0.89	(0.46, 1.55)	1008	1.08
Huntington Hospital	1	0	0.00	1.09	0.00	(0.00,100.0)	.	.
LIJ Medical Center	26	0	0.00	5.16	0.00	(0.00, 2.52)	5	0.00
North Shore Univ Hosp	1198	12	1.00	0.93	1.00	(0.52, 1.74)	1003	1.09
Friedman G	669	11	1.64	1.16	1.32	(0.66, 2.35)	600	1.26
LIJ Medical Center	513	7	1.36	1.21	1.05	(0.42, 2.16)	457	0.92
NY Hospital - Queens	17	0	0.00	0.80	0.00	(0.00,24.93)	14	0.00
North Shore Univ Hosp	109	3	2.75	0.90	2.81	(0.56, 8.21)	102	2.45
St. Francis Hospital	30	1	3.33	1.40	2.19	(0.03,12.20)	27	2.82
Gacioch G	439	5	1.14	0.92	1.14	(0.37, 2.66)	327	0.00
Rochester General Hosp	438	5	1.14	0.93	1.14	(0.37, 2.66)	327	0.00
Unity Hospital	1	0	0.00	0.40	0.00	(0.00,100.0)	.	.
Gambino A	630	7	1.11	0.78	1.31	(0.53, 2.71)	572	1.10
North Shore Univ Hosp	140	1	0.71	0.35	1.89	(0.02,10.51)	134	1.39
Winthrop Univ. Hosp	490	6	1.22	0.91	1.25	(0.46, 2.72)	438	1.06
Garrand T	257	3	1.17	0.77	1.41	(0.28, 4.11)	201	1.46
Champ.Valley Phys Hosp	201	2	1.00	0.80	1.14	(0.13, 4.13)	152	1.96
St. Peters Hospital	56	1	1.79	0.64	2.58	(0.03,14.38)	49	0.00
Geizhals M	579	4	0.69	0.65	0.98	(0.26, 2.50)	573	0.75
Lenox Hill Hospital	151	1	0.66	0.58	1.05	(0.01, 5.84)	151	0.72
NY Hospital - Queens	427	3	0.70	0.68	0.96	(0.19, 2.79)	421	0.76
NYP- Weill Cornell	1	0	0.00	0.51	0.00	(0.00,100.0)	1	0.00
Gelormini J	542	4	0.74	0.94	0.72	(0.19, 1.85)	489	0.18
Mercy Hospital	285	3	1.05	1.08	0.90	(0.18, 2.62)	249	0.00
Millard Fillmore Hosp	257	1	0.39	0.78	0.46	(0.01, 2.55)	240	0.38
Giambartolomei A	764	8	1.05	1.21	0.80	(0.34, 1.58)	636	0.48
Crouse Hospital	44	0	0.00	0.46	0.00	(0.00,16.87)	37	0.00
St. Josephs Hospital	720	8	1.11	1.26	0.82	(0.35, 1.61)	599	0.49
Goldman A Y	399	3	0.75	1.29	0.54	(0.11, 1.57)	372	0.27
Montefiore - Moses	389	3	0.77	1.31	0.54	(0.11, 1.58)	362	0.27
St. Lukes at St. Lukes	10	0	0.00	0.45	0.00	(0.00,74.53)	10	0.00
Green S	956	11	1.15	1.07	1.00	(0.50, 1.78)	774	0.29
LIJ Medical Center	17	0	0.00	3.79	0.00	(0.00, 5.26)	2	0.00
North Shore Univ Hosp	939	11	1.17	1.02	1.06	(0.53, 1.90)	772	0.29

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Grella R	523	2	0.38	0.65	0.54	(0.06, 1.95)	476	0.45
North Shore Univ Hosp	5	0	0.00	0.21	0.00	(0.00,100.0)	5	0.00
St. Catherine of Siena	1	0	0.00	3.85	0.00	(0.00,88.14)	.	.
Univ.Hosp-Stony Brook	517	2	0.39	0.65	0.55	(0.06, 1.98)	471	0.45
Grose R	433	4	0.92	0.66	1.29	(0.35, 3.31)	411	0.51
Montefiore - Moses	175	3	1.71	0.62	2.57	(0.52, 7.50)	163	0.73
NYP- Columbia Presby.	258	1	0.39	0.69	0.52	(0.01, 2.89)	248	0.39
Grunwald A	718	6	0.84	1.01	0.76	(0.28, 1.67)	654	0.50
LIJ Medical Center	625	5	0.80	0.95	0.78	(0.25, 1.82)	572	0.44
NY Hospital - Queens	28	0	0.00	1.35	0.00	(0.00, 8.95)	26	0.00
North Shore Univ Hosp	58	1	1.72	1.57	1.02	(0.01, 5.65)	49	1.33
St. Francis Hospital	7	0	0.00	0.40	0.00	(0.00,100.0)	7	0.00
Hamby R	210	2	0.95	0.56	1.58	(0.18, 5.70)	205	1.19
South Nassau Comm.Hosp	1	0	0.00	1.12	0.00	(0.00,100.0)	.	.
St. Francis Hospital	209	2	0.96	0.55	1.60	(0.18, 5.76)	205	1.19
Haq N	425	2	0.47	1.10	0.40	(0.04, 1.43)	354	0.00
Mercy Hospital	418	2	0.48	1.11	0.40	(0.04, 1.44)	347	0.00
Millard Fillmore Hosp	7	0	0.00	0.67	0.00	(0.00,72.46)	7	0.00
Hogan R	756	4	0.53	0.74	0.66	(0.18, 1.70)	669	0.35
Albany Medical Center	358	2	0.56	0.47	1.09	(0.12, 3.93)	354	0.75
Ellis Hospital	321	0	0.00	0.55	0.00	(0.00, 1.91)	315	0.00
Glens Falls Hospital	77	2	2.60	2.73	0.88	(0.10, 3.18)	.	.
Hormozi S	616	9	1.46	0.84	1.61	(0.73, 3.06)	516	1.64*
Good Sam - West Islip	30	1	3.33	2.89	1.06	(0.01, 5.92)	.	.
LIJ Medical Center	3	0	0.00	0.39	0.00	(0.00,100.0)	3	0.00
North Shore Univ Hosp	241	1	0.41	0.45	0.85	(0.01, 4.71)	236	0.61
South Nassau Comm.Hosp	4	0	0.00	2.42	0.00	(0.00,34.99)	.	.
Southside Hospital	25	0	0.00	0.99	0.00	(0.00,13.67)	.	.
St. Catherine of Siena	11	0	0.00	3.90	0.00	(0.00, 7.90)	.	.
St. Francis Hospital	302	7	2.32	0.80	2.67 *	(1.07, 5.51)	277	2.30 *
Irobunda C	114	3	2.63	1.42	1.71	(0.34, 4.99)	95	1.19
M. I. Bassett Hospital	1	0	0.00	0.05	0.00	(0.00,100.0)	1	0.00
NYP- Columbia Presby.	113	3	2.65	1.43	1.71	(0.34, 5.00)	94	1.19
Iskander A	265	1	0.38	0.94	0.37	(0.00, 2.07)	236	0.38
Crouse Hospital	6	0	0.00	0.18	0.00	(0.00,100.0)	6	0.00
St. Josephs Hospital	259	1	0.39	0.96	0.37	(0.00, 2.08)	230	0.39

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Jauhar R	1149	9	0.78	1.05	0.69	(0.32, 1.31)	955	0.70
Huntington Hospital	2	0	0.00	0.66	0.00	(0.00,100.0)	.	.
LIJ Medical Center	1107	7	0.63	0.98	0.60	(0.24, 1.23)	951	0.70
North Shore Univ Hosp	40	2	5.00	2.84	1.62	(0.18, 5.87)	4	0.00
Johnson M	373	2	0.54	0.75	0.66	(0.07, 2.38)	355	0.62
Montefiore - Moses	272	2	0.74	0.83	0.82	(0.09, 2.94)	258	0.81
NYP- Columbia Presby.	101	0	0.00	0.53	0.00	(0.00, 6.33)	97	0.00
Kamran M	754	5	0.66	0.92	0.66	(0.21, 1.55)	605	0.00
City Hosp at Elmhurst	124	5	4.03	2.56	1.45	(0.47, 3.39)	.	.
Mount Sinai Hospital	630	0	0.00	0.60	0.00 **	(0.00, 0.90)	605	0.00
Kantrowitz N	545	4	0.73	0.78	0.87	(0.23, 2.23)	507	0.54
Beth Israel Med Ctr	267	2	0.75	0.56	1.23	(0.14, 4.43)	265	0.87
Long Island Coll. Hosp	14	0	0.00	1.90	0.00	(0.00,12.74)	.	.
SVCMC- St. Vincents	264	2	0.76	0.94	0.75	(0.08, 2.70)	242	0.31
Kaplan B	1369	7	0.51	1.01	0.47	(0.19, 0.96)	1197	0.37
Huntington Hospital	1	0	0.00	0.40	0.00	(0.00,100.0)	.	.
LIJ Medical Center	1318	6	0.46	0.98	0.43	(0.16, 0.94)	1193	0.37
North Shore Univ Hosp	50	1	2.00	1.91	0.97	(0.01, 5.38)	4	0.00
Katz S	925	5	0.54	0.88	0.57	(0.18, 1.32)	812	0.28
LIJ Medical Center	21	1	4.76	5.66	0.78	(0.01, 4.32)	3	0.00
North Shore Univ Hosp	904	4	0.44	0.77	0.53	(0.14, 1.36)	809	0.29
Keller N	241	3	1.24	1.53	0.75	(0.15, 2.20)	200	0.00
Bellevue Hospital Ctr	228	3	1.32	1.53	0.79	(0.16, 2.31)	194	0.00
NYU Hospitals Center	13	0	0.00	1.45	0.00	(0.00,17.95)	6	0.00
Kim B	53	0	0.00	0.30	0.00	(0.00,21.32)	53	0.00
LIJ Medical Center	34	0	0.00	0.37	0.00	(0.00,26.84)	34	0.00
North Shore Univ Hosp	19	0	0.00	0.17	0.00	(0.00,100.0)	19	0.00
Kim M	1316	20	1.52	1.19	1.18	(0.72, 1.82)	1212	0.82
City Hosp at Elmhurst	36	2	5.56	1.75	2.94	(0.33,10.60)	.	.
Mount Sinai Hospital	1280	18	1.41	1.18	1.10	(0.65, 1.74)	1212	0.82
Koss J	637	7	1.10	0.88	1.15	(0.46, 2.38)	571	0.73
LIJ Medical Center	542	5	0.92	0.88	0.97	(0.31, 2.27)	487	0.85
NY Hospital - Queens	12	0	0.00	0.28	0.00	(0.00,99.90)	11	0.00
North Shore Univ Hosp	72	2	2.78	1.08	2.39	(0.27, 8.62)	62	0.00
St. Francis Hospital	11	0	0.00	0.50	0.00	(0.00,61.20)	11	0.00

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Kovar L	42	1	2.38	4.09	0.54	(0.01, 2.99)	11	0.00
Good Sam - Suffern	31	1	3.23	5.42	0.55	(0.01, 3.06)	.	.
NYP- Columbia Presby.	11	0	0.00	0.35	0.00	(0.00,87.68)	11	0.00
Kreps E	640	7	1.09	1.18	0.86	(0.34, 1.77)	604	0.52
Lenox Hill Hospital	469	3	0.64	1.05	0.56	(0.11, 1.64)	442	0.37
NYP- Columbia Presby.	171	4	2.34	1.52	1.42	(0.38, 3.64)	162	0.85
Krishnan P	249	7	2.81	1.69	1.54	(0.61, 3.16)	200	2.44*
City Hosp at Elmhurst	19	0	0.00	5.89	0.00	(0.00, 3.03)	.	.
Mount Sinai Hospital	230	7	3.04	1.35	2.09	(0.84, 4.31)	200	2.44 *
Kufs W	171	1	0.58	0.50	1.08	(0.01, 6.01)	160	0.75
Ellis Hospital	154	1	0.65	0.48	1.25	(0.02, 6.95)	147	0.83
St. Peters Hospital	17	0	0.00	0.68	0.00	(0.00,29.25)	13	0.00
Lederman S	445	4	0.90	0.66	1.25	(0.34, 3.21)	422	1.00
North Shore Univ Hosp	283	4	1.41	0.56	2.33	(0.63, 5.97)	276	1.71
Univ.Hosp-Stony Brook	103	0	0.00	0.87	0.00	(0.00, 3.78)	90	0.00
Winthrop Univ. Hosp	59	0	0.00	0.79	0.00	(0.00, 7.26)	56	0.00
Lee A	452	7	1.55	1.50	0.95	(0.38, 1.96)	348	0.92
LIJ Medical Center	16	1	6.25	8.07	0.72	(0.01, 3.98)	2	0.00
North Shore Univ Hosp	436	6	1.38	1.26	1.01	(0.37, 2.20)	346	0.92
Lee J	255	2	0.78	0.77	0.94	(0.11, 3.39)	247	0.37
Mount Sinai Hospital	216	1	0.46	0.69	0.62	(0.01, 3.44)	214	0.42
SVCMC- St. Vincents	39	1	2.56	1.22	1.95	(0.03,10.84)	33	0.00
Lee P J	857	9	1.05	0.67	1.44	(0.66, 2.74)	739	0.88
Good Sam - West Islip	67	3	4.48	2.18	1.90	(0.38, 5.56)	.	.
LIJ Medical Center	13	1	7.69	0.53	13.39	(0.17,74.49)	13	8.81
North Shore Univ Hosp	646	3	0.46	0.51	0.84	(0.17, 2.46)	636	0.61
Southside Hospital	38	1	2.63	1.43	1.70	(0.02, 9.43)	.	.
St. Francis Hospital	29	0	0.00	0.31	0.00	(0.00,38.04)	28	0.00
Winthrop Univ. Hosp	64	1	1.56	0.48	3.00	(0.04,16.69)	62	1.91
Leon M	704	11	1.56	0.83	1.74	(0.87, 3.12)	688	1.23
Lenox Hill Hospital	523	7	1.34	0.82	1.50	(0.60, 3.10)	511	0.98
NYP- Columbia Presby.	181	4	2.21	0.85	2.41	(0.65, 6.17)	177	1.80
Ling F	622	3	0.48	0.89	0.50	(0.10, 1.47)	476	0.23
Strong Memorial Hosp	621	3	0.48	0.88	0.51	(0.10, 1.48)	476	0.23
Unity Hospital	1	0	0.00	2.04	0.00	(0.00,100.0)	.	.

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Lituchy A	680	2	0.29	0.77	0.35	(0.04, 1.28)	607	0.30
South Nassau Comm.Hosp	31	0	0.00	1.16	0.00	(0.00, 9.40)	.	.
St. Francis Hospital	649	2	0.31	0.75	0.38	(0.04, 1.37)	607	0.30
Lozner E	314	2	0.64	1.18	0.50	(0.06, 1.80)	264	0.80
Crouse Hospital	208	1	0.48	1.34	0.33	(0.00, 1.84)	185	0.55
St. Josephs Hospital	106	1	0.94	0.86	1.02	(0.01, 5.67)	79	1.51
Macina A	123	1	0.81	1.08	0.70	(0.01, 3.88)	63	0.00
Albany Medical Center	120	0	0.00	1.04	0.00	(0.00, 2.71)	63	0.00
St. Peters Hospital	3	1	33.33	2.46	12.53	(0.16,69.71)	.	.
Mani A	251	5	1.99	1.18	1.56	(0.50, 3.65)	192	1.43
Albany Medical Center	242	5	2.07	1.14	1.68	(0.54, 3.92)	187	1.58
Univ.Hosp-Stony Brook	9	0	0.00	2.30	0.00	(0.00,16.36)	5	0.00
Marchant D	495	3	0.61	1.04	0.54	(0.11, 1.57)	368	0.30
Huntington Hospital	1	0	0.00	0.42	0.00	(0.00,100.0)	.	.
LIJ Medical Center	20	0	0.00	1.96	0.00	(0.00, 8.63)	1	0.00
North Shore Univ Hosp	474	3	0.63	1.01	0.58	(0.12, 1.70)	367	0.30
Marmulstein M	211	3	1.42	1.17	1.12	(0.22, 3.27)	145	0.83
Albany Medical Center	1	0	0.00	0.05	0.00	(0.00,100.0)	1	0.00
St. Peters Hospital	210	3	1.43	1.18	1.12	(0.22, 3.27)	144	0.83
Masud A	615	4	0.65	0.65	0.93	(0.25, 2.38)	587	0.58
Buffalo General Hosp	374	2	0.53	0.52	0.96	(0.11, 3.46)	362	0.74
Millard Fillmore Hosp	241	2	0.83	0.85	0.90	(0.10, 3.25)	225	0.40
Mehran R	136	2	1.47	1.28	1.06	(0.12, 3.83)	122	0.00
Lenox Hill Hospital	34	0	0.00	1.39	0.00	(0.00, 7.17)	32	0.00
NYP- Columbia Presby.	102	2	1.96	1.24	1.46	(0.16, 5.26)	90	0.00
Messinger D	288	0	0.00	1.22	0.00	(0.00, 0.97)	271	0.00
NYP- Weill Cornell	256	0	0.00	1.32	0.00	(0.00, 1.00)	240	0.00
Westchester Med Ctr	32	0	0.00	0.39	0.00	(0.00,26.91)	31	0.00
Minadeo J	328	7	2.13	1.30	1.52	(0.61, 3.13)	254	0.71
South Nassau Comm.Hosp	46	2	4.35	1.89	2.13	(0.24, 7.68)	.	.
St. Francis Hospital	282	5	1.77	1.20	1.36	(0.44, 3.18)	254	0.71
Mittal N	467	1	0.21	0.35	0.57	(0.01, 3.15)	466	0.39
Mount Sinai Hospital	459	1	0.22	0.35	0.57	(0.01, 3.17)	458	0.39
Univ.Hosp-Brooklyn	8	0	0.00	0.13	0.00	(0.00,100.0)	8	0.00

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Morris W	1243	11	0.88	1.02	0.80	(0.40, 1.44)	1141	0.55
Buffalo General Hosp	435	7	1.61	1.11	1.34	(0.54, 2.77)	412	1.04
Mercy Hospital	229	1	0.44	1.28	0.32	(0.00, 1.75)	175	0.00
Millard Fillmore Hosp	579	3	0.52	0.85	0.56	(0.11, 1.65)	554	0.37
Moses J	2393	11	0.46	0.59	0.72	(0.36, 1.30)	2386	0.48
Lenox Hill Hospital	1504	5	0.33	0.58	0.53	(0.17, 1.23)	1497	0.31
NYP- Columbia Presby.	889	6	0.67	0.59	1.05	(0.38, 2.29)	889	0.74
Moussa I	1199	10	0.83	0.89	0.87	(0.42, 1.60)	1153	0.69
Lenox Hill Hospital	850	8	0.94	0.91	0.96	(0.41, 1.88)	817	0.75
NYP- Columbia Presby.	349	2	0.57	0.82	0.64	(0.07, 2.32)	336	0.55
Nero T	385	7	1.82	1.12	1.50	(0.60, 3.09)	324	1.29
Beth Israel Med Ctr	348	7	2.01	1.07	1.73	(0.69, 3.57)	303	1.38
St. Lukes at St. Lukes	37	0	0.00	1.59	0.00	(0.00, 5.77)	21	0.00
Ong L S	2937	23	0.78	0.73	1.00	(0.63, 1.50)	2755	0.62
Rochester General Hosp	2905	22	0.76	0.69	1.01	(0.63, 1.53)	2727	0.64
Strong Memorial Hosp	28	0	0.00	1.37	0.00	(0.00, 8.86)	28	0.00
Unity Hospital	4	1	25.00	21.71	1.06	(0.01, 5.92)	.	.
Ong L Y	1177	3	0.25	1.09	0.22 **	(0.04, 0.63)	1015	0.22
LIJ Medical Center	19	0	0.00	2.65	0.00	(0.00, 6.73)	2	0.00
North Shore Univ Hosp	1158	3	0.26	1.06	0.23 **	(0.05, 0.66)	1013	0.22
Padmanabhan V	206	1	0.49	1.03	0.43	(0.01, 2.42)	178	0.00
LIJ Medical Center	28	0	0.00	0.67	0.00	(0.00,18.20)	25	0.00
North Shore Univ Hosp	178	1	0.56	1.09	0.48	(0.01, 2.65)	153	0.00
Papaleo R	316	5	1.58	0.68	2.14	(0.69, 4.99)	276	1.54
Albany Medical Center	265	5	1.89	0.71	2.45	(0.79, 5.71)	235	1.73
Glens Falls Hospital	4	0	0.00	1.65	0.00	(0.00,51.34)	.	.
St. Peters Hospital	47	0	0.00	0.44	0.00	(0.00,16.54)	41	0.00
Papandrea L	340	1	0.29	0.82	0.33	(0.00, 1.83)	267	0.48
Albany Medical Center	72	0	0.00	1.27	0.00	(0.00, 3.71)	43	0.00
Glens Falls Hospital	1	0	0.00	0.39	0.00	(0.00,100.0)	.	.
St. Peters Hospital	267	1	0.37	0.71	0.49	(0.01, 2.72)	224	0.58
Park C	589	6	1.02	1.60	0.59	(0.21, 1.28)	435	0.42
Huntington Hospital	1	0	0.00	0.44	0.00	(0.00,100.0)	.	.
LIJ Medical Center	528	5	0.95	1.55	0.56	(0.18, 1.32)	422	0.42
North Shore Univ Hosp	60	1	1.67	2.09	0.74	(0.01, 4.10)	13	0.00

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Park J	496	0	0.00	0.55	0.00	(0.00, 1.25)	462	0.00
LIJ Medical Center	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
NY Hospital - Queens	12	0	0.00	0.16	0.00	(0.00,100.0)	12	0.00
North Shore Univ Hosp	184	0	0.00	0.45	0.00	(0.00, 4.06)	177	0.00
Winthrop Univ. Hosp	299	0	0.00	0.62	0.00	(0.00, 1.82)	272	0.00
Patcha R	456	4	0.88	0.67	1.20	(0.32, 3.08)	403	0.64
Huntington Hospital	21	1	4.76	1.08	4.09	(0.05,22.74)	.	.
North Shore Univ Hosp	435	3	0.69	0.66	0.97	(0.20, 2.84)	403	0.64
Patel R B	417	4	0.96	1.04	0.85	(0.23, 2.17)	293	0.36
Good Sam - West Islip	56	3	5.36	2.20	2.25	(0.45, 6.57)	.	.
North Shore Univ Hosp	277	1	0.36	0.58	0.57	(0.01, 3.19)	266	0.43
Southside Hospital	39	0	0.00	2.64	0.00	(0.00, 3.29)	.	.
St. Catherine of Siena	15	0	0.00	1.20	0.00	(0.00,18.83)	.	.
Winthrop Univ. Hosp	30	0	0.00	1.00	0.00	(0.00,11.28)	27	0.00
Patel T	953	6	0.63	1.06	0.55	(0.20, 1.19)	745	0.32
Rochester General Hosp	729	6	0.82	1.01	0.75	(0.27, 1.63)	645	0.36
Strong Memorial Hosp	103	0	0.00	0.63	0.00	(0.00, 5.23)	100	0.00
Unity Hospital	121	0	0.00	1.72	0.00	(0.00, 1.63)	.	.
Pena Sing I	429	2	0.47	0.88	0.49	(0.05, 1.76)	396	0.00
Bellevue Hospital Ctr	328	1	0.30	0.75	0.38	(0.00, 2.10)	302	0.00
NYU Hospitals Center	101	1	0.99	1.32	0.69	(0.01, 3.85)	94	0.00
Perry-Bottinger L	46	0	0.00	0.46	0.00	(0.00,15.92)	46	0.00
NY Hospital - Queens	12	0	0.00	0.66	0.00	(0.00,42.98)	12	0.00
NYP- Columbia Presby.	34	0	0.00	0.39	0.00	(0.00,25.28)	34	0.00
Petrosian G	1410	15	1.06	0.89	1.11	(0.62, 1.83)	1304	0.87
South Nassau Comm.Hosp	15	0	0.00	1.95	0.00	(0.00,11.57)	.	.
St. Francis Hospital	1395	15	1.08	0.87	1.14	(0.64, 1.87)	1304	0.87
Phadke K	1036	10	0.97	0.76	1.17	(0.56, 2.15)	908	0.69
Buffalo General Hosp	1	0	0.00	0.66	0.00	(0.00,100.0)	1	0.00
Erie County Med Ctr	339	5	1.47	0.52	2.63	(0.85, 6.15)	309	1.61
Millard Fillmore Hosp	696	5	0.72	0.88	0.75	(0.24, 1.76)	598	0.37
Rashkow A	99	2	2.02	1.00	1.87	(0.21, 6.76)	81	1.56
Glens Falls Hospital	1	0	0.00	4.17	0.00	(0.00,81.28)	.	.
M. I. Basset Hospital	98	2	2.04	0.96	1.95	(0.22, 7.06)	81	1.56
Reddy C	386	6	1.55	0.87	1.65	(0.60, 3.59)	380	1.08
NY Methodist Hospital	220	3	1.36	1.14	1.10	(0.22, 3.22)	214	0.62
NYP- Weill Cornell	166	3	1.81	0.51	3.29	(0.66, 9.60)	166	2.14

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Reger M	606	1	0.17	0.83	0.18	(0.00, 1.03)	532	0.20
Crouse Hospital	33	0	0.00	0.75	0.00	(0.00,13.75)	30	0.00
St. Josephs Hospital	573	1	0.17	0.83	0.19	(0.00, 1.08)	502	0.21
Rehman A	776	7	0.90	1.07	0.78	(0.31, 1.60)	694	0.34
North Shore Univ Hosp	1	0	0.00	1.35	0.00	(0.00,100.0)	1	0.00
South Nassau Comm.Hosp	7	0	0.00	1.47	0.00	(0.00,32.93)	.	.
St. Francis Hospital	768	7	0.91	1.07	0.79	(0.32, 1.62)	693	0.35
Reich D	639	4	0.63	0.81	0.71	(0.19, 1.82)	535	0.38
Good Sam - West Islip	50	2	4.00	1.77	2.09	(0.23, 7.53)	.	.
LIJ Medical Center	127	0	0.00	1.07	0.00	(0.00, 2.50)	125	0.00
North Shore Univ Hosp	347	0	0.00	0.60	0.00	(0.00, 1.63)	339	0.00
Southside Hospital	42	0	0.00	1.06	0.00	(0.00, 7.60)	.	.
Winthrop Univ. Hosp	73	2	2.74	0.59	4.32	(0.49,15.61)	71	2.83
Reimers C	1060	10	0.94	0.69	1.27	(0.61, 2.33)	1016	0.81
Beth Israel Med Ctr	441	5	1.13	0.58	1.82	(0.59, 4.25)	432	1.10
Lenox Hill Hospital	619	5	0.81	0.77	0.97	(0.31, 2.27)	584	0.64
Rentrop K	84	0	0.00	0.40	0.00	(0.00,10.15)	83	0.00
Beth Israel Med Ctr	8	0	0.00	0.19	0.00	(0.00,100.0)	8	0.00
SVMC- St. Vincents	76	0	0.00	0.42	0.00	(0.00,10.65)	75	0.00
Roccario E	773	5	0.65	0.93	0.65	(0.21, 1.51)	592	0.36
Albany Medical Center	6	0	0.00	1.88	0.00	(0.00,30.12)	4	0.00
St. Peters Hospital	767	5	0.65	0.92	0.66	(0.21, 1.53)	588	0.36
Rosenband M	649	7	1.08	0.86	1.16	(0.46, 2.39)	616	0.63
St. Catherine of Siena	6	0	0.00	1.89	0.00	(0.00,29.88)	.	.
Univ.Hosp-Stony Brook	643	7	1.09	0.85	1.18	(0.47, 2.44)	616	0.63
Sacchi T	1080	10	0.93	0.72	1.18	(0.57, 2.18)	1046	0.64
Beth Israel Med Ctr	129	0	0.00	0.57	0.00	(0.00, 4.62)	129	0.00
Maimonides Medical Ctr	174	2	1.15	0.46	2.32	(0.26, 8.37)	174	1.53
NY Methodist Hospital	777	8	1.03	0.81	1.18	(0.51, 2.32)	743	0.59
Sassower M	678	4	0.59	0.99	0.55	(0.15, 1.41)	610	0.34
North Shore Univ Hosp	44	0	0.00	0.37	0.00	(0.00,20.85)	43	0.00
Winthrop Univ. Hosp	634	4	0.63	1.04	0.56	(0.15, 1.44)	567	0.36
Schwartz R	1330	11	0.83	0.95	0.80	(0.40, 1.43)	1245	0.54
Good Sam - West Islip	2	0	0.00	1.26	0.00	(0.00,100.0)	.	.
North Shore Univ Hosp	273	1	0.37	0.74	0.46	(0.01, 2.53)	257	0.00
Southside Hospital	1	0	0.00	1.45	0.00	(0.00,100.0)	.	.
Winthrop Univ. Hosp	1054	10	0.95	1.01	0.87	(0.42, 1.60)	988	0.64

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Shaknovich A	351	3	0.85	0.55	1.44	(0.29, 4.21)	350	1.08
Beth Israel Med Ctr	350	3	0.86	0.55	1.44	(0.29, 4.21)	349	1.08
NY Methodist Hospital	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
Sherman W	557	3	0.54	1.21	0.41	(0.08, 1.21)	526	0.17
Mount Sinai Hospital	472	2	0.42	1.20	0.33	(0.04, 1.18)	450	0.00
NYP- Columbia Presby.	85	1	1.18	1.24	0.88	(0.01, 4.89)	76	1.11
Shlofmitz R	1399	4	0.29	0.41	0.65	(0.17, 1.66)	1372	0.46
St. Catherine of Siena	4	0	0.00	0.60	0.00	(0.00,100.0)	.	.
St. Francis Hospital	1395	4	0.29	0.41	0.65	(0.18, 1.67)	1372	0.46
Siddiqi R	344	0	0.00	0.52	0.00	(0.00, 1.90)	339	0.00
Beth Israel Med Ctr	9	0	0.00	0.64	0.00	(0.00,59.04)	9	0.00
SVCMC- St. Vincents	335	0	0.00	0.51	0.00	(0.00, 1.97)	330	0.00
Simons A	1021	9	0.88	0.83	0.98	(0.45, 1.87)	897	0.81
Crouse Hospital	66	1	1.52	0.70	1.99	(0.03,11.10)	62	1.58
St. Josephs Hospital	955	8	0.84	0.84	0.93	(0.40, 1.83)	835	0.75
Slater J	611	8	1.31	0.62	1.95	(0.84, 3.85)	581	1.08
Bellevue Hospital Ctr	140	2	1.43	0.98	1.34	(0.15, 4.85)	124	0.67
NYU Hospitals Center	336	5	1.49	0.51	2.71	(0.87, 6.32)	324	1.44
St. Lukes at St. Lukes	135	1	0.74	0.52	1.32	(0.02, 7.32)	133	0.96
Snyder S	208	1	0.48	0.85	0.52	(0.01, 2.91)	192	0.00
SVCMC- St. Vincents	1	0	0.00	0.17	0.00	(0.00,100.0)	1	0.00
Staten Island Univ Hosp	207	1	0.48	0.85	0.52	(0.01, 2.91)	191	0.00
Staniloae C	282	3	1.06	0.88	1.11	(0.22, 3.25)	236	0.91
NYU Hospitals Center	8	0	0.00	0.25	0.00	(0.00,100.0)	8	0.00
SVCMC- St. Vincents	274	3	1.09	0.90	1.12	(0.23, 3.27)	228	0.92
Stone G	438	3	0.68	1.04	0.61	(0.12, 1.78)	407	0.38
Lenox Hill Hospital	318	3	0.94	1.15	0.76	(0.15, 2.22)	293	0.49
NYP- Columbia Presby.	120	0	0.00	0.76	0.00	(0.00, 3.74)	114	0.00
Strizik B	638	7	1.10	0.94	1.08	(0.43, 2.22)	576	0.81
Huntington Hospital	13	1	7.69	3.70	1.92	(0.03,10.69)	.	.
LIJ Medical Center	72	1	1.39	1.08	1.19	(0.02, 6.61)	72	0.79
North Shore Univ Hosp	553	5	0.90	0.86	0.97	(0.31, 2.27)	504	0.82
Stuver T	930	10	1.08	1.08	0.92	(0.44, 1.69)	711	0.41
Rochester General Hosp	926	10	1.08	1.08	0.92	(0.44, 1.70)	711	0.41
Unity Hospital	4	0	0.00	1.63	0.00	(0.00,51.90)	.	.

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Suleman J	584	4	0.68	0.68	0.94	(0.25, 2.40)	546	0.66
City Hosp at Elmhurst	10	0	0.00	2.94	0.00	(0.00,11.52)	.	.
LIJ Medical Center	23	0	0.00	0.46	0.00	(0.00,32.11)	23	0.00
Mount Sinai Hospital	551	4	0.73	0.64	1.04	(0.28, 2.67)	523	0.68
Teirstein P	114	1	0.88	0.99	0.82	(0.01, 4.56)	111	0.74
Lenox Hill Hospital	79	1	1.27	1.00	1.16	(0.02, 6.48)	76	1.10
NYP- Columbia Presby.	35	0	0.00	0.95	0.00	(0.00,10.15)	35	0.00
Tsiamtsiouris T	660	6	0.91	0.76	1.10	(0.40, 2.39)	631	0.80
St. Catherine of Siena	4	0	0.00	2.23	0.00	(0.00,37.98)	.	.
St. Francis Hospital	656	6	0.91	0.75	1.12	(0.41, 2.44)	631	0.80
Warshofsky M	187	0	0.00	0.69	0.00	(0.00, 2.61)	178	0.00
M. I. Bassett Hospital	5	0	0.00	1.25	0.00	(0.00,54.34)	1	0.00
NYP- Columbia Presby.	182	0	0.00	0.68	0.00	(0.00, 2.74)	177	0.00
Wasserman H	271	1	0.37	1.20	0.28	(0.00, 1.58)	232	0.00
Arnot Ogden Med Ctr	1	0	0.00	0.49	0.00	(0.00,100.0)	1	0.00
NYP- Columbia Presby.	270	1	0.37	1.21	0.28	(0.00, 1.58)	231	0.00
Wilentz J	450	4	0.89	0.56	1.48	(0.40, 3.79)	418	0.37
Beth Israel Med Ctr	20	0	0.00	0.23	0.00	(0.00,74.31)	19	0.00
St. Lukes at St. Lukes	430	4	0.93	0.57	1.51	(0.41, 3.86)	399	0.38
Winer H	421	3	0.71	1.10	0.60	(0.12, 1.75)	299	0.62
Arnot Ogden Med Ctr	407	3	0.74	1.12	0.61	(0.12, 1.78)	285	0.64
Bellevue Hospital Ctr	7	0	0.00	0.69	0.00	(0.00,69.78)	7	0.00
NYU Hospitals Center	7	0	0.00	0.35	0.00	(0.00,100.0)	7	0.00
Witkes D	481	2	0.42	0.51	0.75	(0.08, 2.71)	465	0.62
North Shore Univ Hosp	213	0	0.00	0.40	0.00	(0.00, 4.01)	212	0.00
Winthrop Univ. Hosp	268	2	0.75	0.60	1.14	(0.13, 4.13)	253	1.07
Young H	96	4	4.17	2.32	1.66	(0.45, 4.25)	45	0.00
Buffalo General Hosp	15	0	0.00	0.48	0.00	(0.00,47.28)	14	0.00
Erie County Med Ctr	45	3	6.67	3.51	1.75	(0.35, 5.12)	5	0.00
Mercy Hospital	32	1	3.13	1.71	1.68	(0.02, 9.37)	23	0.00
Millard Fillmore Hosp	4	0	0.00	0.65	0.00	(0.00,100.0)	3	0.00
Zisfein J	402	4	1.00	0.64	1.44	(0.39, 3.69)	345	1.26
North Shore Univ Hosp	300	3	1.00	0.49	1.90	(0.38, 5.54)	292	1.50
South Nassau Comm.Hosp	45	1	2.22	1.81	1.14	(0.01, 6.33)	.	.
St. Francis Hospital	57	0	0.00	0.51	0.00	(0.00,11.69)	53	0.00

Criteria Used in Reporting Significant Risk Factors (2005)

Based on Documentation in Medical Record

Patient Risk Factor	Definitions
Hemodynamic State	
<ul style="list-style-type: none"> • Unstable 	<p>Determined just prior to the intervention</p> <p>Patient requires pharmacologic or mechanical support to maintain blood pressure or cardiac output.</p>
<ul style="list-style-type: none"> • Shock 	<p>Acute hypotension (systolic blood pressure < 80 mmHg) or low cardiac index (< 2.0 liters/min/m²), despite pharmacologic or mechanical support.</p>
Comorbidities	
<ul style="list-style-type: none"> • Chronic Obstructive Pulmonary Disease (COPD) 	<p>Patients who require chronic (longer than three months) bronchodilator therapy to avoid disability from obstructive airway disease, have a forced expiratory volume in one second of less than 75% of the predicted value or less than 1.25 liters, or have a room air pO₂ <60 or a pCO₂ >50.</p>
<ul style="list-style-type: none"> • Malignant Ventricular Arrhythmia 	<p>Recent (within the past 14 days) sustained ventricular tachycardia requiring electrical defibrillation or conversion with intravenous antiarrhythmic agents or ventricular fibrillation requiring electrical defibrillation. Excludes V-Tach or V-Fib occurring within 6 hours of the diagnosis of a myocardial infarction and responding well to treatment.</p>
<ul style="list-style-type: none"> • Congestive Heart Failure (CHF), Current 	<p>Within 2 weeks prior to the procedure, a physician has diagnosed CHF by one of the following:</p> <ul style="list-style-type: none"> • Paroxysmal nocturnal dyspnea (PND) • Dyspnea on exertion (DOE) due to heart failure, or • Chest X-Ray showing pulmonary congestion.
<ul style="list-style-type: none"> • Renal Failure, Creatinine 	<p>Highest Pre-PCI creatinine during the hospital admission was within indicated range.</p>
<ul style="list-style-type: none"> • Renal Failure, Dialysis 	<p>The patient is on chronic peritoneal or hemodialysis.</p>
Ventricular Function	
<ul style="list-style-type: none"> • Previous MI 	<p>One or more myocardial infarctions (MI) in the specified time period before the intervention.</p>
<ul style="list-style-type: none"> • Ejection Fraction 	<p>Value of the ejection fraction taken closest to the procedure. When a calculated measure is unavailable the ejection fraction should be estimated visually from the ventriculogram or by echocardiography. Intraoperative direct observation of the heart is not an adequate basis for a visual estimate of the ejection fraction.</p>

MEDICAL TERMINOLOGY

percutaneous coronary intervention (PCI) also known as **angioplasty** or **percutaneous transluminal coronary angioplasty** – typically in this procedure, a balloon catheter is threaded up to the site of blockage in an artery in the heart, and is then inflated to push arterial plaque against the wall of the artery to create a wider channel in the artery. Other procedures or devices are frequently used in conjunction with the catheter to remove plaque. In particular, stents are used for most patients, and procedures such as atherectomies and ultrasound are sometimes used.

angina pectoris - the pain or discomfort felt when blood and oxygen flow to the heart are impeded by blockage in the coronary arteries. This can also be caused by an arterial spasm.

arteriosclerosis - the group of diseases characterized by thickening and loss of elasticity of the arterial walls, popularly called “hardening of the arteries”. Also called *atherosclerotic coronary artery disease* or *coronary artery disease*.

atherosclerosis - one form of arteriosclerosis in which plaques or fatty deposits form in the inner layer of the arteries.

cardiac catheterization - also known as *coronary angiography* - a procedure for diagnosing the condition of the heart and the arteries connecting to it. A thin tube threaded through an artery to the heart releases a dye, which allows doctors to observe blockages with an x-ray camera. This procedure is required before PCI is performed.

cardiovascular disease - disease of the heart and blood vessels, the most common form is coronary artery disease.

coronary arteries - the arteries that supply the heart muscle with blood. When they are narrowed or blocked, blood and oxygen cannot flow freely to the heart muscle or myocardium.

coronary artery bypass graft surgery (CABG) - a procedure in which a vein or artery from another part of the body is used to create an alternate path for blood to flow to the heart, bypassing the arterial blockage. Typically, a section of one of the large saphenous veins in the leg, the radial artery in the arm or the mammary artery in the chest is used to construct the bypass. One

or more bypasses may be performed during a single operation. When no other major heart surgery (such as valve replacement) is included, the operation is referred to as an isolated CABG.

Double, triple, quadruple **bypass**- the average number of bypass grafts created during coronary artery bypass graft surgery is three or four. Generally, all significantly blocked arteries are bypassed unless they enter areas of the heart that are permanently damaged by previous heart attacks. Five or more bypasses are occasionally created. Multiple bypasses are often performed to provide several alternate routes for the blood flow and to improve the long-term success of the procedure, not necessarily because the patient’s condition is more severe.

ischemic heart disease (ischemia) - heart disease that occurs as a result of inadequate blood supply to the heart muscle or myocardium.

lesion - an irregular growth of fiber and tissue.

myocardial infarction - partial destruction of the heart muscle due to interrupted blood supply, also called a *heart attack*.

plaque - also called *atheroma*, this is the fatty deposit in the coronary artery that can block blood flow.

risk factors for heart disease - certain risk factors have been found to increase the likelihood of developing heart disease. Some are controllable or avoidable, and some cannot be controlled. The biggest heart disease risk factors are heredity, gender, and age, all of which cannot be controlled. Men are much more likely to develop heart disease than women before the age of 55, although it is the number one killer of both men and women.

Some controllable risk factors that contribute to a higher likelihood of developing coronary artery disease are high cholesterol levels, cigarette smoking, high blood pressure (hypertension), obesity, a sedentary lifestyle or lack of exercise, diabetes, and poor stress management.

stenosis - the narrowing of an artery due to blockage. *Restenosis* is when the narrowing recurs after PCI or surgery.

Appendix 1

2005 Risk Factors For PCI In-Hospital/30-Day Mortality (ALL CASES)

The significant pre-procedural risk factors for in-hospital/30-day mortality following PCI in 2005 are presented in the table that follows.

Roughly speaking, the odds ratio for a risk factor represents the number of times more likely a patient with that risk factor is to die in the hospital during or after PCI or after hospital discharge but within 30 days of the PCI than a patient without the risk factor, all other risk factors being the same. For example, the odds ratio for the risk factor “COPD” is 1.799. This means that a patient with COPD is approximately 1.799 times as likely to die in the hospital during the same admission as PCI or after hospital discharge but within 30 days of the PCI as a patient without COPD who has the same other significant risk factors. The risk factors Malignant Ventricular Arrhythmia and CHF-Current are interpreted in the same way.

With regard to age, the odds ratio roughly represents the number of times more likely a patient who is over age 65 is to die in the hospital or after discharge but within 30 days than another patient who is one year younger, all other significant risk factors being the same. Thus, a patient undergoing PCI who is 68 years old has approximately 1.056 times the chance of dying in the hospital or within 30 days that a 67 year-old patient has, all other risk factors being the same. All patients aged 65 years or younger have roughly the same odds of dying in the hospital or after discharge but within 30 days if their other risk factors are identical.

The odds ratio for the variable “Female Gender” is 1.602, meaning that a female undergoing PCI is 1.602 times more likely to die in the hospital or after discharge but within 30 days than a male with all of the same other significant risk factors.

The variables for Hemodynamic State are relative to patients that are not hemodynamically unstable or in shock. So, for example, a patient that is unstable has 10.623 times the odds of death of a hemodynamically stable patient, all of the other significant risk factors being the same.

Ejection fraction, which is the percentage of blood in the heart’s left ventricle that is expelled when it contracts (with more denoting a healthier heart), is subdivided into five ranges (<20%, 20% to 29%, 30% to 39%, 40% to 49% and 50% or more). The last range is referred to as the reference category. This means that the odds ratio that appears for the other ejection fraction categories in the table is relative to patients with an ejection fraction of 50% or more. Thus, a PCI patient with an ejection fraction of <20% is about 3.682 times as likely to die in the hospital or within 30 days as a patient with an ejection fraction of 50% or higher, all other significant risk factors being the same.

Previous MI is subdivided into five ranges (occurring less than 6 hours prior, 6 to 11 hours prior, 12 to 23 hours prior, 1 to 14 days prior and no MI within 14 days prior to the procedure.) The last range is referred to as the reference category. The odds ratios for the Previous MI ranges are relative to patients who have not had an MI within 14 days prior to PCI.

Renal failure is subdivided into five groups. Four categories represent patients with various levels of elevated creatinine, but no dialysis. The fifth category includes patients with renal failure on dialysis. All groups are relative to patients who are not on dialysis and had no pre-PCI creatinine values greater than 1.5 mg/dl.

Appendix 1 Multivariate Risk-Factor Equation for In-Hospital/30 Day Deaths During or Following PCI in NYS, 2005 (*All Cases*).

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: number of years > 65	--	0.0543	<.0001	1.056
Female Gender	31.91	0.4713	<.0001	1.602
Hemodynamic State				
Hemodynamically Stable	99.35	— Reference —		1.000
Unstable	0.50	2.3630	<.0001	10.623
Shock	0.15	2.7011	<.0001	14.896
Ventricular Function				
Ejection Fraction				
Ejection Fraction 50% or greater	73.15	— Reference —		1.000
Ejection Fraction less than 20 %	0.88	1.3035	<.0001	3.682
Ejection Fraction 20-29 %	3.59	1.1138	<.0001	3.046
Ejection Fraction 30-39 %	7.17	0.5796	<.0001	1.785
Ejection Fraction 40-49%	15.21	0.3475	0.0077	1.416
Pre-Procedural MI				
No MI within 14 days	76.16	— Reference —		1.000
MI < 6 hrs	6.54	1.4405	<.0001	4.223
MI 6-11 hrs	1.88	1.4752	<.0001	4.372
MI 12-23	2.78	1.4198	<.0001	4.136
MI 1-14 days	12.63	0.8779	<.0001	2.406
Comorbidities				
CHF, Current	5.84	0.7763	<.0001	2.174
COPD	6.04	0.5874	<.0001	1.799
Malignant Ventricular Arrhythmia	0.53	0.7385	0.0044	2.093
Renal Failure				
No Renal Failure	89.92	— Reference —		1.000
Renal Failure, Creatinine 1.6-2.0	5.74	0.5848	<.0001	1.795
Renal Failure, Creatinine 2.1-3.0	1.90	1.2765	<.0001	3.584
Renal Failure, Creatinine > 3.0	0.55	1.4194	<.0001	4.135
Renal Failure, Requiring Dialysis	1.89	1.6415	<.0001	5.163

Intercept = -6.4813

C Statistic = 0.841

Appendix 2

2005 Risk Factors For In-Hospital/30-Day Mortality For Non-Emergency PCI

Appendix 2 contains the significant pre-procedural risk factors for 2005 New York State PCI patients who were not emergency patients (were not in shock or hemodynamically unstable and who did not suffer a heart attack within 24 hours prior to the PCI being performed).

The variables for Female Gender, CHF-Current and COPD are interpreted in the same manner as they were in Appendix 1. The interpretation for Age is similar to that described in Appendix 1. In this case, each year beyond age 55 is associated with an increase in risk when other risk factors are the same. The interpretation of Ejection Fraction is also similar to that previously described. In this case, the reference category is patients with an ejection fraction of 30% or greater.

In this model, there is only one category for Previous MI. Patients with a Previous MI between 1 and 14 days prior to the procedure are 2.660 times as likely to die in the hospital or after discharge but within 30 days of PCI as patients who have not had an MI within 14 days, if all other risk factors are the same.

The interpretation of diabetes requiring medication is similar to that of COPD in Appendix 1. This category is relative to patients who did not have diabetes requiring medication.

The interpretation of renal failure is similar to that in Appendix 1. In this case, patients with renal failure (elevated creatinine without dialysis and those requiring dialysis) are compared to patients with no Pre-PCI creatinine greater than 2.0 mg/dl and no dialysis prior to PCI.

Three Vessels Diseased refers to patients with at least a 70% blockage in each of three native coronary arteries (LAD, RCA, LCX) or their major branches. This category is relative to patients who do have fewer than three vessels diseased.

Appendix 2 Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI in New York State, 2005 (Non-Emergency Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: Number of Years > 55	--	0.0473	<.0001	1.048
Female Gender	32.48	0.3606	0.0030	1.434
Ventricular Function				
Ejection Fraction				
Ejection Fraction 30% or greater	95.94	— Reference —		1.000
Ejection Fraction less than 20%	0.84	1.1302	<.0001	3.096
Ejection Fraction 20-29%	3.22	0.7350	0.0002	2.085
Pre-Procedural MI				
Previous MI 1-14 days	14.18	0.9783	<.0001	2.660
Comorbidities				
CHF, Current	5.79	0.7890	<.0001	2.201
COPD	6.23	0.8203	<.0001	2.271
Diabetes Requiring Medication	33.23	0.3594	0.0032	1.432
Renal Failure				
No Renal Failure	95.47	— Reference —		1.000
Renal Failure, Creatinine 2.1-3.0 mg/dl	1.95	0.9224	<.0001	2.515
Renal Failure, Creatinine > 3.0 mg/dl	0.56	1.3455	0.0002	3.840
Renal Failure, Requiring Dialysis	2.01	1.4047	<.0001	4.074
Vessels				
3 Vessels Diseased	14.13	0.4924	0.0003	1.636
Intercept = -6.8048				
C Statistic = 0.801				

Appendix 3

2003-2005 Risk Factors for PCI In-Hospital/30-Day Mortality (ALL CASES)

The significant pre-procedural risk factors for in-hospital/30-day mortality following PCI in the 2003-2005 time period are presented in the table that follows. The interpretation of this table is similar to the interpretation of Appendices 1 and 2 that are described previously. The variables Female Gender, Peripheral Vascular Disease, COPD, Malignant Ventricular Arrhythmia and Diabetes Requiring Medication are interpreted in the same manner as COPD in Appendix 1. For example, patients with COPD have odds of dying in the hospital or after discharge but within 30 days that are 3.081 times the odds of patients without COPD dying in the hospital or after discharge but within 30 days, all other risk factors being the same. The variables for Hemodynamic State, and Ejection Fraction are interpreted in the same manner as they are in Appendix 1.

The interpretation for Age is the same as in Appendix 2. The interpretation for Renal Failure is similar to Appendix 1, except in this case the reference category is patients with no Pre-PCI dialysis and no Pre-PCI creatinine greater than 2.5 mg/dl.

The interpretation for Previous MI is very similar to that in Appendix 1. In this case, the reference category is patients who have not had an MI within 14 days prior to the procedure.

In this model, there are three categories for Congestive Heart Failure (CHF); Current, Past and No CHF within 6 months. The odds ratio for CHF-Current compares patients diagnosed with CHF within 2 weeks prior to the procedure to those who have not had CHF diagnosed within 6 months of the PCI. CHF-Past compares patients with CHF diagnosed between 2 weeks to 6 months prior to the procedure to those who have not had CHF in the past 6 months.

Three Vessels Diseased refers to patient with at least a 70% blockage in each of three native coronary arteries (LAD, RCA, LCX), or their major branches. Two Vessels Diseased refers to patient with at least a 70% blockage in two of the native coronary arteries (LAD, RCA, LCX), or their major branches. The reference category for these two groups includes patients who have fewer than two vessels diseased.

Left Main Disease refers to patients with a blockage of at least 50% in their Left Main Coronary Artery. This group is compared to patients who do not have a blockage of at least 50% in their Left Main Coronary Artery.

The Number of Risk Factors Squared term is merely the square of the number of risk factors in Appendix 3 that a patient has (not counting age), and is used to improve the ability of the model to predict mortality.

Appendix 3 Multivariate Risk-Factor Equation for In-Hospital / 30-Day Deaths During or Following PCI in New York State, 2003-2005 (*All Cases*).

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: Number of years greater than 55	--	0.0504	<.0001	1.052
Female Gender	32.00	0.8016	<.0001	2.229
Hemodynamic State				
Hemodynamically Stable	99.26	—Reference—		1.000
Unstable	0.59	2.6226	<.0001	13.772
Shock	0.15	3.5129	<.0001	33.546
Ventricular Function				
Ejection Fraction				
Ejection Fraction 40% or more	88.38	—Reference—		1.000
Ejection Fraction less than 20 %	0.85	1.6957	<.0001	5.451
Ejection Fraction 20-29 %	3.50	1.3166	<.0001	3.731
Ejection Fraction 30-39 %	7.27	0.9701	<.0001	2.638
Pre-Procedural MI				
No MI within 14 days	75.53	—Reference—		1.000
MI < 6 hrs	6.39	2.1065	<.0001	8.220
MI 6-11 hrs	1.84	2.0947	<.0001	8.123
MI 12-23 hrs	2.84	1.7084	<.0001	5.520
MI 1-7 days	12.06	1.4468	<.0001	4.249
MI 8-14 days	1.34	1.2978	<.0001	3.661
Comorbidities				
COPD	6.13	1.1253	<.0001	3.081
Congestive Heart Failure				
No CHF within 6 months	91.34	—Reference—		1.000
CHF, Current	5.97	1.3948	<.0001	4.034
CHF, Past but not Current	2.69	1.1708	<.0001	3.225
Diabetes Requiring Medication	30.44	0.6913	<.0001	1.996
Malignant Ventricular Arrhythmia	0.51	1.1441	<.0001	3.140
Peripheral Vascular Disease	6.67	1.0755	<.0001	2.931
Renal Failure				
No Renal Failure	97.08	—Reference—		1.000
Renal Failure, Creatinine > 2.5	1.11	1.5272	<.0001	4.605
Renal Failure, Requiring Dialysis	1.81	1.8030	<.0001	6.068
Vessels				
2-Vessels Diseased	30.92	0.6355	<.0001	1.888
3-Vessels Diseased	14.21	0.8924	<.0001	2.441
Left Main Disease	3.73	1.0230	<.0001	2.782
Sum of Risk Factors Squared	--	-0.0701	<.0001	0.932
Intercept = -7.5597				
C Statistic = 0.852				

Appendix 4

2003-2005 Risk Factors for In-Hospital/30-Day Mortality for Non-Emergency PCI

The significant pre-procedural risk factors for in-hospital/30-day mortality following non-emergency PCI in the 2003-2005 time period are presented in the Appendix 4 table below. With regard to age, the odds ratio roughly represents the number of times more likely a patient who is over age 50 is to die in the hospital than another patient who is one year younger, all other significant risk factors being the same. All patients aged 50 years or younger have roughly the same odds of dying in the hospital if their other risk factors are identical. The interpretation for the rest of the table is similar to the interpretation of Appendices 1-3 that is described previously.

Appendix 4 Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI in New York State, 2003-2005 (*Non-Emergency Cases*)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: number of years > 50	--	0.0435	<.0001	1.044
Female Gender	32.58	0.6861	<.0001	1.986
Ventricular Function				
Ejection Fraction				
Ejection Fraction 40% or greater	89.71	— Reference —		1.000
Ejection Fraction less than 20 %	0.78	1.5751	<.0001	4.831
Ejection Fraction 20-29%	3.14	1.1070	<.0001	3.025
Ejection Fraction 30-39 %	6.38	1.0022	<.0001	2.724
Pre-Procedural MI				
No Previous MI within 14 days	85.00	— Reference —		1.000
Previous MI, 1- 7 days	13.50	1.4376	<.0001	4.211
Previous MI, 8-14 days	1.50	1.3360	<.0001	3.804
Comorbidities				
Congestive Heart Failure				
No CHF	91.33	— Reference —		1.000
CHF, Current	5.76	1.4106	<.0001	4.099
CHF, Past but not Current	2.92	1.2699	<.0001	3.560
COPD	6.29	1.2038	<.0001	3.333
Peripheral Vascular Disease	7.00	1.0190	<.0001	2.770
Renal Failure				
No Renal Failure	96.93	— Reference —		1.000
Renal Failure, creatinine > 2.5	1.13	1.3286	<.0001	3.776
Renal Failure, dialysis	1.94	1.7263	<.0001	5.620
Vessels				
Left Main Disease	3.88	0.9766	<.0001	2.655
Three Vessels Diseased	14.35	0.8124	<.0001	2.253
Sum of Risk Factors Squared	--	-0.0855	<.0001	0.918
Intercept = -7.2593				
C Statistic = 0.808				

Appendix 5

2003-2005 Risk Factors for In-Hospital/30-Day Mortality for Emergency PCI

The significant pre-procedural risk factors for in-hospital/30-day mortality following Emergency PCI in the 2003-2005 time period are presented in the Appendix 5 table below. The interpretation of this table is similar to the interpretation of Appendices 1-4.

Appendix 5 Multivariate Risk-Factor Equation for In-Hospital Deaths During or Following PCI in New York State 2003-2005 (*Emergency Cases*)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: Number of Years > 65	--	0.0790	<.0001	1.082
Female Gender	27.45	0.3938	<.0001	1.483
Hemodynamic State				
Hemodynamically Stable	93.38	— Reference —		1.000
Unstable	5.26	1.8756	<.0001	6.525
Shock	1.36	2.9454	<.0001	19.019
Ventricular Function				
Ejection Fraction				
Ejection Fraction 40% or greater	77.87	— Reference —		1.000
Ejection Fraction less than 20 %	1.37	1.3322	<.0001	3.789
Ejection Fraction 20-29 %	6.41	1.0222	<.0001	2.779
Ejection Fraction 30-39%	14.34	0.4374	0.0005	1.549
Comorbidities				
CHF, Current	7.66	0.7875	<.0001	2.198
Peripheral Vascular Disease	4.06	0.6561	<.0001	1.927
Renal Failure				
No Renal Failure	98.27	— Reference —		1.000
Renal Failure, creatinine > 2.5	0.95	1.2394	<.0001	3.454
Renal Failure, dialysis	0.78	1.4989	<.0001	4.477
Vessels				
3 Vessels Diseased	13.08	0.3993	0.0004	1.491
Intercept = -4.9837				
C Statistic = 0.874				

NEW YORK STATE PERCUTANEOUS CORONARY INTERVENTION CENTERS IN 2005

Albany Medical Center Hospital
New Scotland Avenue
Albany, New York 12208

Arnot Ogden Medical Center
600 Roe Avenue
Elmira, New York 14905

Bellevue Hospital Center
First Avenue and 27th Street
New York, New York 10016

Beth Israel Medical Center
10 Nathan D. Perlman Place
New York, New York 10003

Buffalo General Hospital
100 High Street
Buffalo, New York 14203

Champlain Valley Physicians Hospital
Medical Center
75 Beekman Street
Plattsburgh, NY 12901

City Hospital at Elmhurst*
79-01 Broadway
Elmhurst, NY 11373

Columbia Presbyterian
Medical Center – NY Presbyterian
161 Fort Washington Avenue
New York, New York 10032

Crouse Hospital
736 Irving Avenue
Syracuse, New York 13210

Ellis Hospital
1101 Nott Street
Schenectady, New York 12308

Erie County Medical Center
462 Grider Street
Buffalo, New York 14215

Glens Falls Hospital*
100 Park Street
Glens Falls, NY 12801

Good Samaritan Hospital of Suffern*
255 Lafayette Avenue
Suffern, NY 10901

Good Samaritan Hospital
Medical Center*
1000 Montauk Highway
West Islip, New York 11795

Huntington Hospital*
270 Park Ave.
Huntington, NY 11743

Lenox Hill Hospital
100 East 77th Street
New York, New York 10021

Long Island College Hospital
340 Henry Street
Brooklyn, NY 11201

Long Island Jewish Medical Center
270-05 76th Avenue
New Hyde Park, New York 11040

Mary Imogene Bassett Healthcare
Atwell Road
Cooperstown, NY 13326

Maimonides Medical Center
4802 Tenth Avenue
Brooklyn, New York 11219

Mercy Hospital
565 Abbot Rd.
Buffalo, NY 14220

Millard Fillmore Hospital
3 Gates Circle
Buffalo, New York 14209

Montefiore Medical Center
Henry & Lucy Moses Division
111 East 210th Street
Bronx, New York 11219

Montefiore Medical Center-
Weiler Hospital of
A Einstein College
1825 Eastchester Road
Bronx, New York 10461

Mount Sinai Medical Center
One Gustave L. Levy Place
New York, New York 10019

NYU Hospitals Center
550 First Avenue
New York, New York 10016

New York Methodist Hospital
506 Sixth St.
Brooklyn, NY 11215

New York Hospital Medical
Center-Queens
56-45 Main Street
Flushing, New York 11355

North Shore University Hospital
300 Community Drive
Manhasset, New York 11030

Park Ridge Hospital*
1555 Long Pond Road
Rochester, NY 14626

Rochester General Hospital
1425 Portland Avenue
Rochester, New York 14621

South Nassau Communities Hospital*
One Healthy Way
Oceanside, New York 11572

Southside Hospital*
301 East Main Street
Bayshore, New York 11706

St. Catherine of Siena Hospital*
50 Route 25A
Smithtown, NY 11787

St. Elizabeth Medical Center
2209 Genesee Street
Utica, New York 13413

St. Francis Hospital
Port Washington Boulevard
Roslyn, New York 11576

St. Joseph's Hospital
Health Center
301 Prospect Avenue
Syracuse, New York 13203

St. Luke's Roosevelt Hospital Center
11-11 Amsterdam Avenue at 114th Street
New York, New York 10025

St. Peter's Hospital
315 South Manning Boulevard
Albany, New York 12208

SVMC - St. Vincent's Manhattan
153 West 11th Street
New York, New York 10011

Staten Island University Hospital
475 Seaview Avenue
Staten Island, New York 10305

Stony Brook University Medical Center
Stony Brook, New York 11794-8410

Strong Memorial Hospital
601 Elmwood Avenue
Rochester, New York 14642

United Health Services
Wilson Hospital Division
33-57 Harrison Street
Johnson City, New York 13790

University Hospital of Brooklyn
450 Lenox Road
Brooklyn, New York 11203

University Hospital-Upstate
Medical University
750 East Adams Street
Syracuse, New York 13210

Vassar Brothers Hospital
45 Reade Place
Poughkeepsie, New York 12601

Weill-Cornell Medical Center –
NY Presbyterian
525 East 68th Street
New York, New York 10021

Westchester Medical Center
Grasslands Road
Valhalla, New York 10595

Winthrop – University Hospital
259 First Street
Mineola, New York 11501

* In 2005, hospital was allowed to perform Primary PCI only (STEMI patients).

*Additional copies of this report may be obtained through the
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or by writing to:*

*Cardiac
Box 2000
New York State Department of Health
Albany, New York 12220*



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