

**PERCUTANEOUS  
CORONARY  
INTERVENTIONS  
(PCI)  
in  
New York State  
*2005 – 2007***

**New York State Department of Health  
April 2010**



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# MESSAGE FROM COMMISSIONER DAINES

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March 2010

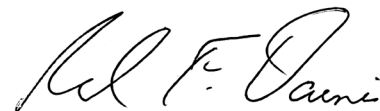
I am pleased to provide the information contained in this booklet for use by health care providers, patients and families of patients who are considering treatment options for cardiovascular disease. The report provides data on risk factors associated with in-hospital/30-day mortality following percutaneous 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 statuses. 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 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 New York State Department of Health (Department of Health) and the New York State Cardiac Advisory Committee (Cardiac Advisory Committee) to compile accurate and meaningful data that can and have been used to enhance quality of care.

As they develop treatment plans, I encourage doctors to discuss this information with their patients and colleagues. 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 2007. 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 (NYS) health care providers.



Richard F. Daines, M.D.  
Commissioner





## INTRODUCTION

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Heart disease is, by far, the leading cause of death in NYS, 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 165,953 patients who underwent PCI in NYS hospitals and were discharged between January 1, 2005, and December 31, 2007. Analyses of risk-adjusted mortality rates and associated risk factors are provided for 2007 and for the three-year period from 2005 through 2007. Analyses of all cases, non-emergency cases (which represent the majority of procedures) and emergency cases are included.

The total number of PCI discharges in 2007, as reported in Table 1, was 51,695. This represents a substantial decline from the 57,944 cases reported in 2006. The 2007 volume is the lowest since 2004 and marks a reversal of the trend toward rapidly rising PCI volume.

## DEPARTMENT OF HEALTH PROGRAM

The 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 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 each 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

This report is based on data for patients discharged between January 1, 2005, and December 31, 2007, provided by all 53 non-federal hospitals in NYS where PCI is performed. Beginning with patients discharged in 2006, the Department of Health, with the advice of the Cardiac Advisory Committee, began a trial period of excluding any patients meeting the NYS Cardiac Data System definition of pre-operative cardiogenic shock from publicly-released reports and analyses. Cardiogenic shock is a condition associated with severe hypotension (very low blood pressure); the technical definition used in this report can be found on page 43. Patients in cardiogenic shock are extremely high-risk, but for some, PCI may be their best chance for survival. Furthermore, the magnitude of the risk is not always easily determined using registry data. These cases were excluded after careful deliberation and input from NYS providers and others in an effort

to ensure that physicians could accept these cases where appropriate without concern over a detrimental impact on their reported outcomes.

Cases with shock were also excluded from the 2005 data in the three-year analyses. This was done to allow for accurate risk assessments across the entire time period. In total, 362 cases with cardiogenic shock were removed from 2005-2007 data. This accounts for 0.22 percent of all PCI cases in the three years.

In addition, 66 records were excluded from the 2007 database because they belong to patients residing outside the United States and these patients could not be followed after hospital discharge. One record belonging to a patient enrolled in a clinical trial (PARTNER) comparing outcomes for two kinds of valve replacement procedures was excluded as well.

Prior to regulatory changes in 2009, PCI in NYS was generally limited to centers with cardiac surgery on-site. However, beginning in 2000, a process was 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 condition were allowed to perform PCI on patients with an ST segment elevation myocardial infarction (a specific kind of heart attack also known as STEMI). In the time-period on which this report is based, thirteen hospitals were performing Primary PCI without cardiac surgery on-site. Beginning in 2006, seven of those centers were also granted permission to perform PCI on patients not having a STEMI. All hospitals currently performing Primary and/or Elective PCI without cardiac surgery on-site are listed on the final page of this report.

## **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 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 NYS 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 (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 Department of Health and the Bureau of Vital Statistics, New York City Department of Health and Mental Hygiene, and the Social Security Administration.

### **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 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 or after discharge but within 30 days of PCI, 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 EMR 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 Mortality 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 RAMR 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 RAMR, the OMR is first divided by the provider's EMR. 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 (0.95 percent in-hospital/30-day in 2007) to obtain the provider's RAMR.

### **Interpreting the Risk-Adjusted Mortality Rate**

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

The RAMR 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 RAMR 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. To prevent misinterpretation of differences caused by chance variation, expected ranges (confidence intervals) are included in the reported results.

Differences in hospital coding of risk factors could be an additional reason that a hospital's RAMR 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 correct these data and have been subject to subsequent monitoring.

### **How This Initiative 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 NYS. Providing the hospitals, cardiac surgeons (who perform cardiac surgery) and cardiologists (who perform PCI) in NYS 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, which assists with interpretation and advises 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.

## 2007 HOSPITAL RISK-ADJUSTED MORTALITY FOR PCI

Table 1 and Figures 1 and 2 present the PCI mortality results for the 53 hospitals performing PCI in NYS in 2007. The table contains, for each hospital, the number of PCIs resulting in 2007 discharges, the number of in-hospital/30-day deaths, the OMR, the EMR based on the statistical model presented in Appendix 1, the RAMR and a 95 percent confidence interval for the RAMR. It also contains each hospital's volume of cases and RAMR for non-emergency patients. Emergency patients are defined to be patients in 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 RAMRs 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 (87.41 percent in 2007).

The overall in-hospital/30-day OMR for the 51,695 PCIs included in this report was 0.95 percent. Observed mortality rates ranged from 0.00 percent to 21.43 percent. The range in EMRs, which measure patient severity of illness, was between 0.43 percent and 8.22 percent. It should be noted that during the time period covered in this report, the hospital with the highest OMR and EMR values was approved to perform only Primary PCI. This means that all cases reported for this center were emergency cases. The RAMRs, which measure hospital performance, range from 0.00 percent to 2.60 percent. Based on confidence intervals for RAMR, two hospitals (Montefiore - Medical Center Weiler Division in the Bronx and University Hospital of Brooklyn) had RAMRs that were significantly higher than the statewide average. No hospitals had RAMRs that were significantly lower than the statewide average.

The last column of Table 1 presents the hospital RAMRs 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 0.62 percent. The range of RAMRs was from 0.00 percent to 1.94 percent. One hospital (Strong Memorial Hospital in Rochester) had a RAMR that was significantly higher than the statewide rate. No hospitals had RAMRs that were 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 RAMR and the gray bar represents the confidence interval, or potential statistical error, for the RAMR. The black vertical line is the NYS in-hospital/30-day mortality rate. For any hospital where the gray bar crosses the statewide 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 2007 PCI analysis is based on in-hospital/30-day mortality and excludes shock cases, the associated mortality rates cannot be compared directly to some previous NYS publications which are based on only in-hospital mortality and include shock cases.

The observed in-hospital mortality rate (not shown in Table 1) for 2007 PCI discharges was 0.56 percent for the 51,695 patients included in Table 1. For the Non-Emergency analysis, there were 45,189 patients with an in-hospital mortality rate of 0.28 percent.

## 2005-2007 HOSPITAL DATA FOR PCI

Table 2 provides the number of PCIs, the in-hospital/30-day OMR and RAMR for 2005-2007 for each of three types of PCI patients in the 53 hospitals performing PCI during the time period. The three types of patients are: all patients, non-emergency patients and emergency patients (patients in a state of hemodynamic instability, typically associated with 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 2005-2007 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 percent to 21.43 percent, and the RAMRs ranged from 0.00 percent to 2.52 percent. The upper end of the OMR range can be attributed to a hospital performing only emergency PCI during the three-year time period. Eight hospitals (Crouse Hospital in Syracuse, Erie County Medical Center in Buffalo, Glens Falls Hospital in Glens Falls, Mary Imogene Bassett Hospital in Cooperstown, Montefiore Medical Center – Weiler Division in the Bronx, St. Vincent's Catholic Medical Center – St. Vincent's in Manhattan, Strong Memorial Hospital in Rochester, and University Hospital of

Brooklyn) had RAMRs that were significantly higher than the statewide rate. One hospital (Mount Sinai Medical Center in Manhattan) had a RAMR 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 in-hospital/30-day RAMRs for non-emergency cases based on the model in Appendix 4. Non-emergency cases comprise 88.45 percent of cases for the period 2005-2007. The statewide in-hospital/30-day mortality rate for the 146,798 non-emergency cases during the 3-year period was 0.62 percent. Observed mortality rates for this group of patients ranged from 0.00 percent to 1.19 percent and the RAMRs ranged from 0.00 to 1.85 percent. Four hospitals (Crouse Hospital in Syracuse, Montefiore Medical Center – Weiler Division in the Bronx, St. Vincent’s Catholic Medical Center – St. Vincent’s in Manhattan, and Strong Memorial Hospital in Rochester) had RAMRs that were significantly higher than the statewide average. No hospitals had RAMRs 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 11.54 percent of cases for the period 2005-2007. The statewide in-hospital/30-day mortality rate for the 19,155 emergency PCI cases during the 3-year period was 2.90 percent. Observed mortality rates for this group ranged from 0.00 percent to 21.43 percent and the RAMRs ranged from 0.00 percent to 9.49 percent. Four hospitals (Erie County Medical Center in Buffalo, Glens Falls Hospital in Glens Falls, Mary Imogene Bassett Hospital in Cooperstown, and Montefiore Medical Center – Moses Division in the Bronx) had RAMRs that were significantly above the statewide average. Three hospitals (Mount Sinai Medical Center in Manhattan, New York Presbyterian - Weil Cornell Medical Center in Manhattan and North Shore University Hospital in Manhasset) had RAMRs that were significantly below the statewide average for emergency cases.

The observed in-hospital mortality rate for all 165,953 cases included in Table 2 was 0.51 percent. The in-hospital mortality rate was 0.27 percent for the 146,798 non-emergency cases and 2.31 percent for the 19,155 emergency cases. As stated above, cases with shock are excluded from these analyses. Therefore, volume and mortality rates for the all cases and emergency cases analyses are not directly comparable to some previously published by the Department of Health.

#### **Note on Hospitals Not Performing PCI During Entire 2005-2007 Period**

Several hospitals began performing PCI during the 2005 - 2007 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 STEMI (heart attack) patients in 2005-2007. Champlain Valley Physicians Hospital - January 2005; #Long Island College Hospital - September 2005; #Jamaica Hospital Medical Center – May 2006; #Faxon – St. Luke’s Healthcare, St. Luke’s Division – February 2007; #Brookdale Hospital Medical Center – October 2007.

#### **Definitions of key terms are as follows:**

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

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 OMR by the EMR, and then multiplying that quotient by the statewide mortality rate (0.95 percent in-hospital/30-day mortality for all PCI patients discharged in 2007).

**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.

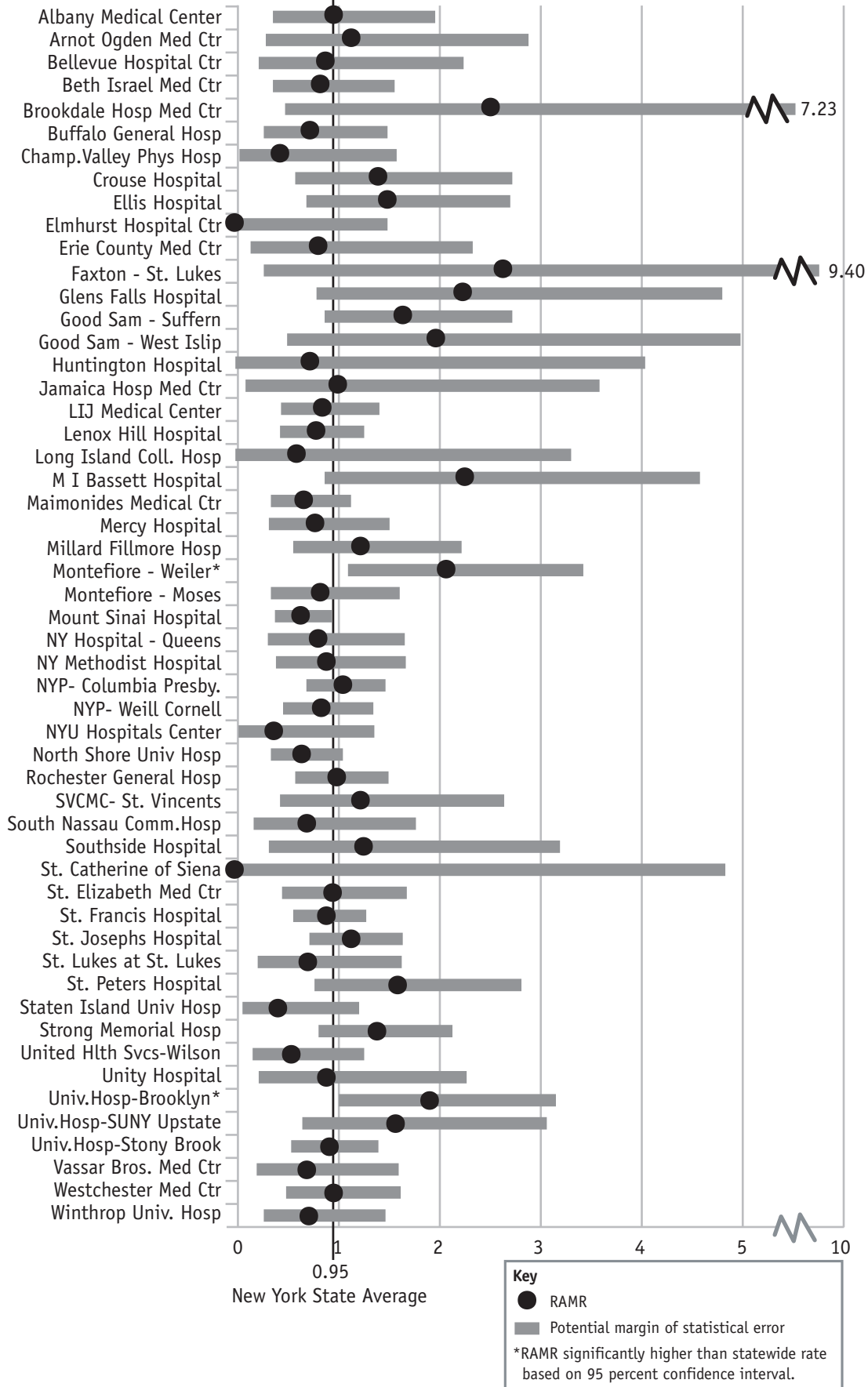
**Table 1** In-Hospital/30-Day Observed, Expected and Risk-Adjusted Mortality Rates for PCI in New York State, 2007 Discharges. (Listed Alphabetically by Hospital)

Hospital	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Albany Medical Center	903	7	0.78	0.77	0.96	(0.38, 1.98)	762	0.75
Arnot Ogden Med Ctr	315	4	1.27	1.06	1.13	(0.31, 2.90)	231	0.00
Bellevue Hospital Ctr	421	4	0.95	1.02	0.88	(0.24, 2.26)	391	0.60
Beth Israel Med Ctr	1550	9	0.58	0.66	0.83	(0.38, 1.58)	1507	0.60
Brookdale Hosp Med Ctr	14	3	21.43	8.22	2.48	(0.50, 7.23)	.	.
Buffalo General Hosp	1398	7	0.50	0.65	0.73	(0.29, 1.51)	1308	0.45
Champ.Valley Phys Hosp	367	2	0.54	1.16	0.44	(0.05, 1.60)	280	0.37
Crouse Hospital	541	8	1.48	1.01	1.39	(0.60, 2.74)	436	0.63
Ellis Hospital	546	10	1.83	1.18	1.48	(0.71, 2.72)	375	1.33
Elmhurst Hospital Ctr	281	0	0.00	0.82	0.00	(0.00, 1.51)	216	0.00
Erie County Med Ctr	266	3	1.13	1.33	0.81	(0.16, 2.35)	152	0.66
Faxton - St. Lukes	20	2	10.00	3.65	2.60	(0.29, 9.40)	.	.
Glens Falls Hospital	279	6	2.15	0.92	2.21	(0.81, 4.81)	217	1.94
Good Sam - Suffern	738	14	1.90	1.11	1.63	(0.89, 2.74)	589	1.12
Good Sam - West Islip	94	4	4.26	2.08	1.95	(0.52, 4.99)	.	.
Huntington Hospital	53	1	1.89	2.46	0.73	(0.01, 4.05)	.	.
Jamaica Hosp Med Ctr	83	2	2.41	2.30	1.00	(0.11, 3.60)	.	.
Lenox Hill Hospital	2940	16	0.54	0.66	0.79	(0.45, 1.28)	2828	0.43
Long Island Coll. Hosp	36	1	2.78	4.43	0.60	(0.01, 3.32)	.	.
Long Island Jewish Med Ctr	1765	14	0.79	0.89	0.85	(0.46, 1.43)	1545	0.76
M I Bassett Hospital	299	7	2.34	1.00	2.23	(0.89, 4.59)	247	1.59
Maimonides Medical Ctr	1364	13	0.95	1.35	0.67	(0.36, 1.15)	1155	0.43
Mercy Hospital	577	8	1.39	1.69	0.78	(0.34, 1.53)	415	0.18
Millard Fillmore Hosp	890	10	1.12	0.88	1.22	(0.58, 2.24)	801	0.74
Montefiore - Moses	772	8	1.04	1.19	0.83	(0.36, 1.63)	629	0.15
Montefiore - Weiler	844	14	1.66	0.77	2.05 *	(1.12, 3.44)	734	1.33
Mount Sinai Hospital	4356	23	0.53	0.78	0.64	(0.40, 0.96)	4224	0.47
NY Hospital - Queens	949	7	0.74	0.86	0.81	(0.33, 1.68)	853	0.47
NY Methodist Hospital	1106	9	0.81	0.87	0.89	(0.41, 1.69)	1046	0.42
NYP- Columbia Presby.	2847	31	1.09	0.99	1.05	(0.71, 1.49)	2698	0.78
NYP- Weill Cornell	1512	16	1.06	1.19	0.84	(0.48, 1.37)	1326	0.72
NYU Hospitals Center	674	2	0.30	0.74	0.38	(0.04, 1.38)	641	0.18
North Shore Univ Hosp	2517	15	0.60	0.87	0.65	(0.36, 1.07)	2249	0.46
Rochester General Hosp	2154	20	0.93	0.89	0.99	(0.60, 1.52)	1902	0.62
SVCMC- St. Vincents	1095	6	0.55	0.43	1.22	(0.45, 2.66)	1034	1.01
South Nassau Comm. Hosp	385	4	1.04	1.41	0.70	(0.19, 1.79)	285	0.56
Southside Hospital	509	4	0.79	0.60	1.25	(0.34, 3.21)	445	1.81
St. Catherine of Siena	35	0	0.00	2.05	0.00	(0.00, 4.84)	1	0.00
St. Elizabeth Med Ctr	1066	11	1.03	1.03	0.95	(0.47, 1.70)	922	0.94
St. Francis Hospital	2594	26	1.00	1.07	0.89	(0.58, 1.30)	2408	0.56
St. Josephs Hospital	1868	26	1.39	1.17	1.13	(0.74, 1.66)	1567	0.70
St. Lukes at St. Lukes	517	5	0.97	1.30	0.71	(0.23, 1.65)	440	0.00
St. Peters Hospital	797	11	1.38	0.83	1.58	(0.79, 2.83)	617	0.78
Staten Island Univ Hosp	1157	3	0.26	0.58	0.42	(0.08, 1.23)	1038	0.29
Strong Memorial Hosp	1217	19	1.56	1.08	1.38	(0.83, 2.15)	946	1.50 *
United Hlth Svcs-Wilson	829	5	0.60	1.04	0.55	(0.18, 1.28)	639	0.60
Unity Hospital	272	4	1.47	1.56	0.89	(0.24, 2.29)	191	0.00
Univ. Hosp-Brooklyn	836	14	1.67	0.84	1.89 *	(1.03, 3.17)	764	1.19
Univ. Hosp-SUNY Upstate	264	8	3.03	1.84	1.56	(0.67, 3.08)	156	0.91
Univ. Hosp-Stony Brook	1660	20	1.20	1.24	0.92	(0.56, 1.42)	1338	0.78
Vassar Bros. Med Ctr	664	5	0.75	1.03	0.70	(0.22, 1.62)	505	0.35
Westchester Med Ctr	1337	13	0.97	0.96	0.96	(0.51, 1.64)	1150	0.62
Winthrop Univ. Hosp	1122	7	0.62	0.82	0.72	(0.29, 1.49)	986	0.46
<b>Statewide Total</b>	<b>51695</b>	<b>491</b>	<b>0.95</b>				<b>45189</b>	<b>0.62</b>

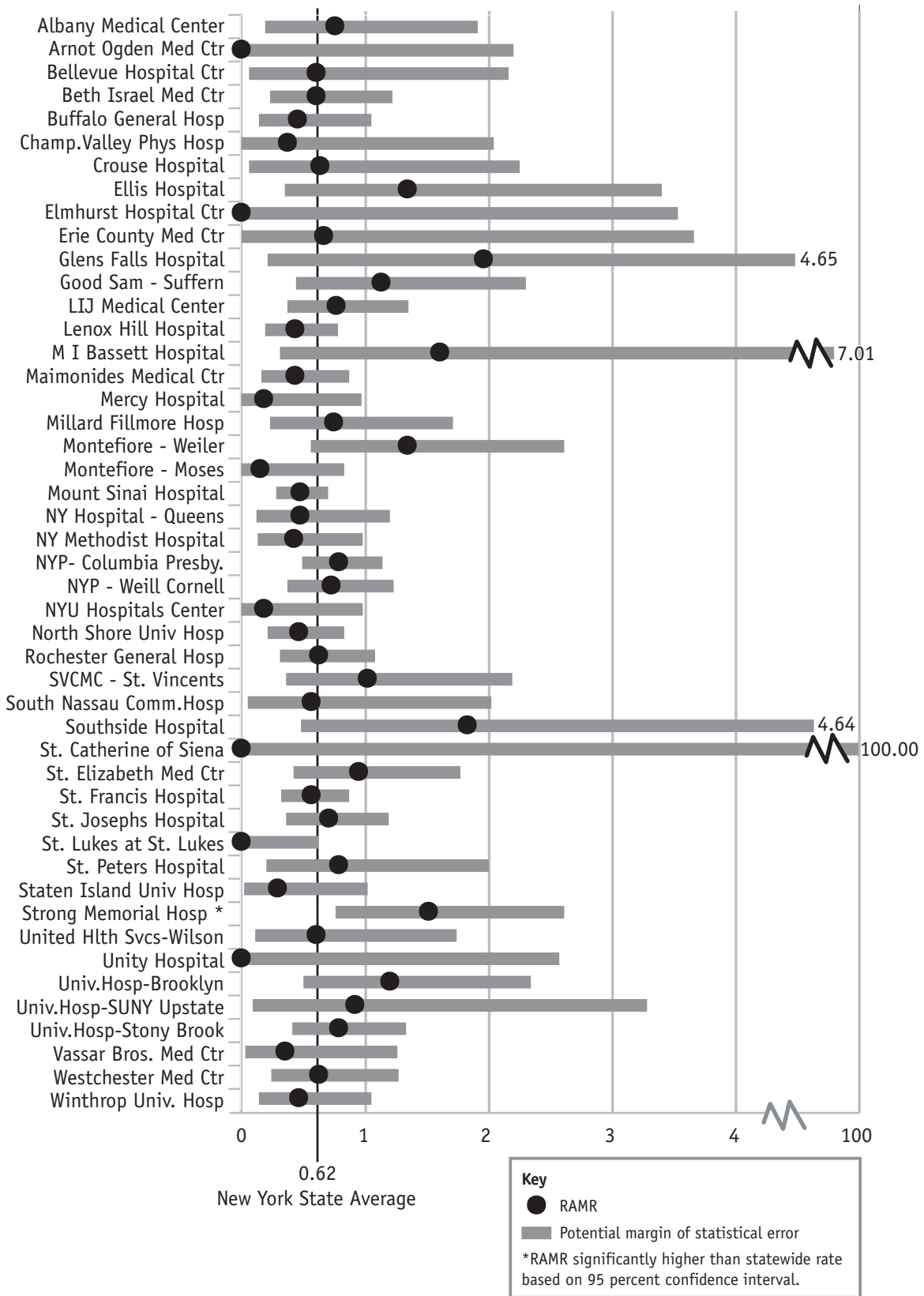
\* RAMR significantly higher than statewide rate based on 95 percent confidence interval.

\*\* RAMR 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, 2007 Discharges (All Cases)



**Figure 2** In-Hospital/30-Day Risk-Adjusted Mortality Rates for PCI in New York State, 2007 Discharges (Non-Emergency Cases)





**Table 2** In-Hospital/30-Day Observed and Risk-Adjusted Mortality Rates for PCI in New York State, 2005 - 2007 Discharges

Hospital	All Cases			Non-Emergency Cases			Emergency Cases		
	Cases	OMR	RAMR	Cases	OMR	RAMR	Cases	OMR	RAMR
Albany Medical Center	3258	0.80	0.95	2793	0.54	0.75	465	2.37	2.77
Arnot Ogden Med Ctr	1016	0.59	0.59	753	0.13	0.18	263	1.90	2.57
Bellevue Hospital Ctr	1510	0.79	0.80	1379	0.44	0.44	131	4.58	3.38
Beth Israel Med Ctr	4748	0.82	0.99	4580	0.68	0.77	168	4.76	2.40
Brookdale Hosp Med Ctr	14	21.43	2.00	.	.	.	14	21.43	8.02
Buffalo General Hosp	4538	0.66	0.91	4303	0.42	0.49	235	5.11	4.99
Champ.Valley Phys Hosp	860	0.70	0.57	654	0.61	0.67	206	0.97	1.10
Crouse Hospital	2047	1.32	1.49 *	1798	1.00	1.19 *	249	3.61	4.12
Ellis Hospital	2054	0.78	0.71	1557	0.45	0.49	497	1.81	2.29
Elmhurst Hospital Ctr	414	0.24	0.19	230	0.00	0.00	184	0.54	0.81
Erie County Med Ctr	1017	2.16	1.41 *	695	0.58	0.68	322	5.59	5.64 *
Faxton - St. Lukes	20	10.00	2.52	.	.	.	20	10.00	9.49
Glens Falls Hospital	420	2.86	2.05 *	226	0.88	1.85	194	5.15	6.80 *
Good Sam - Suffern	939	1.81	1.04	589	1.19	1.04	350	2.86	2.92
Good Sam - West Islip	274	2.19	0.96	.	.	.	274	2.19	3.34
Huntington Hospital	131	3.05	1.56	.	.	.	131	3.05	5.16
Jamaica Hosp Med Ctr	112	3.57	1.36	.	.	.	112	3.57	5.54
Lenox Hill Hospital	8188	0.72	0.88	7768	0.57	0.59	420	3.57	2.94
Long Island Coll. Hosp	82	2.44	0.67	.	.	.	82	2.44	2.33
Long Island Jewish	5435	0.74	0.67	4782	0.61	0.55	653	1.68	1.69
M I Bassett Hospital	876	2.05	1.89 *	715	1.12	1.24	161	6.21	6.61 *
Maimonides Medical Ctr	4459	1.03	0.77	3884	0.75	0.52	575	2.96	2.90
Mercy Hospital	1996	0.90	0.66	1529	0.39	0.32	467	2.57	2.97
Millard Fillmore Hosp	2853	0.95	0.93	2583	0.62	0.63	270	4.07	2.91
Montefiore - Moses	2470	1.05	1.01	2141	0.42	0.42	329	5.17	5.42 *
Montefiore - Weiler	2756	1.34	1.49 *	2441	0.98	1.10 *	315	4.13	4.64
Mount Sinai Hospital	13030	0.61	0.64 **	12525	0.53	0.49	505	2.57	1.62 **
NY Hospital - Queens	3491	0.77	0.80	3189	0.47	0.48	302	3.97	3.55
NY Methodist Hospital	3237	0.83	1.05	3103	0.64	0.70	134	5.22	4.21
NYP- Columbia Presby.	9149	0.83	0.88	8759	0.70	0.64	390	3.85	2.47
NYP- Weill Cornell	5059	0.85	0.69	4523	0.69	0.57	536	2.24	1.48 **
NYU Hospitals Center	2384	0.46	0.56	2245	0.27	0.31	139	3.60	2.59
North Shore Univ Hosp	9954	0.62	0.69	8991	0.52	0.57	963	1.56	1.58 **
Rochester General Hosp	7222	0.94	1.04	6406	0.67	0.69	816	3.06	3.56
SVCMC- St. Vincents	4280	0.89	1.49 *	4008	0.80	1.17 *	272	2.21	2.96
South Nassau Comm.Hosp	545	1.47	0.76	336	0.60	0.51	209	2.87	2.86
Southside Hospital	725	0.83	1.02	529	0.76	1.61	196	1.02	1.76
St. Catherine of Siena	123	0.00	0.00	1	0.00	0.00	122	0.00	0.00
St. Elizabeth Med Ctr	3704	1.16	1.02	3230	0.93	0.88	474	2.74	2.46
St. Francis Hospital	9531	0.80	0.81	8943	0.59	0.53	588	3.91	3.04
St. Josephs Hospital	5916	1.03	0.90	5098	0.69	0.65	818	3.18	2.87
St. Lukes at St. Lukes	1887	1.17	0.92	1662	0.42	0.35	225	6.67	5.05
St. Peters Hospital	2860	0.84	0.91	2254	0.53	0.60	606	1.98	2.96
Staten Island Univ Hosp	3744	0.53	0.84	3362	0.39	0.60	382	1.83	2.59
Strong Memorial Hosp	3957	1.39	1.36 *	3155	1.05	1.08 *	802	2.74	3.73
United Hlth Svcs-Wilson	2582	0.93	0.77	2065	0.63	0.68	517	2.13	1.96
Unity Hospital	364	1.37	0.66	191	0.00	0.00	173	2.89	2.43
Univ. Hosp-Brooklyn	3258	1.14	1.28 *	3096	0.90	0.91	162	5.56	4.75
Univ. Hosp-SUNY Upstate	810	1.98	1.19	549	0.73	0.54	261	4.60	4.78
Univ. Hosp-Stony Brook	5106	0.92	0.78	4182	0.69	0.56	924	1.95	2.31
Vassar Bros. Med Ctr	2229	0.72	0.69	1770	0.34	0.32	459	2.18	3.14
Westchester Med Ctr	4588	0.87	0.79	3906	0.54	0.56	682	2.79	2.40
Winthrop Univ. Hosp	3731	0.62	0.68	3320	0.48	0.49	411	1.70	2.19
<b>Statewide Total</b>	<b>165953</b>	<b>0.88</b>		<b>146798</b>	<b>0.62</b>		<b>19155</b>	<b>2.90</b>	

\* 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.

## 2005-2007 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, OMR, EMR, RAMR, and the 95 percent confidence interval for the RAMR for 2005-2007 for cardiologists in each of the 53 hospitals performing PCI during the time period and for each of the hospitals. Table 3 also contains the volume and RAMR for cardiologists and hospitals for non-emergency cases.

This information is presented for each cardiologist who (a) performed 200 or more PCIs during 2005-2007, and/or (b) performed at least one PCI in each of the years 2005-2007. 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 2005-2007.

Also, cardiologists who met criterion (a) or (b) above and have performed PCI in two or more NYS 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, OMR, EMR and RAMR 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 RAMRs that are significantly lower or higher than the statewide mortality rate (as judged by a 95 percent confidence interval) are noted in Tables 3 and 4.

It should be noted that myocardial infarction (MI) less than 24 hours before the procedure 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 RAMRs. It is important to compare providers' RAMRs to the statewide average mortality rate for the specific group of patients analyzed.

**Table 3** Cardiologist In-Hospital/30-Day Observed, Expected and Risk-Adjusted Mortality Rates for PCI in New York State, 2005 - 2007 Discharges

	ALL CASES						NON-EMERGENCY	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Statewide Total</b>	<b>165953</b>	<b>1461</b>	<b>0.88</b>				<b>146798</b>	<b>0.62</b>
<b>Albany Medical Center Hospital</b>								
#Bishop G	6	0	0.00	0.64	0.00	(0.00,84.07)	5	0.00
##Brady S	541	4	0.74	0.77	0.85	(0.23, 2.18)	451	0.59
##Delago A	1350	8	0.59	0.61	0.85	(0.37, 1.68)	1221	0.80
##Esper D	204	3	1.47	1.08	1.20	(0.24, 3.50)	156	0.92
##Hogan R	255	1	0.39	0.43	0.81	(0.01, 4.50)	251	0.57
Houghton J	369	5	1.36	0.78	1.53	(0.49, 3.58)	304	1.41
#Macina A	97	1	1.03	1.64	0.55	(0.01, 3.07)	43	0.00
#Mani A	87	2	2.30	1.64	1.23	(0.14, 4.45)	70	0.00
#Marmulstein M	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
##Papaleo R	305	1	0.33	0.63	0.46	(0.01, 2.54)	270	0.00
##Papandrea L	40	1	2.50	1.33	1.66	(0.02, 9.23)	19	6.53
#Roccario E	3	0	0.00	3.18	0.00	(0.00,33.87)	2	0.00
<b>TOTAL</b>	<b>3258</b>	<b>26</b>	<b>0.80</b>	<b>0.74</b>	<b>0.95</b>	<b>(0.62, 1.39)</b>	<b>2793</b>	<b>0.75</b>
<b>Arnot-Ogden Medical Center</b>								
##Amin N	103	0	0.00	0.78	0.00	(0.00, 4.02)	78	0.00
#Clark V	5	0	0.00	0.33	0.00	(0.00,100.0)	4	0.00
#Laifer L	371	2	0.54	0.65	0.73	(0.08, 2.65)	291	0.57
#Menzies D	9	0	0.00	0.51	0.00	(0.00,70.14)	8	0.00
Winer H	507	3	0.59	1.06	0.49	(0.10, 1.44)	356	0.00
All Others	21	1	4.76	1.26	3.34	(0.04,18.56)	16	0.00
<b>TOTAL</b>	<b>1016</b>	<b>6</b>	<b>0.59</b>	<b>0.87</b>	<b>0.59</b>	<b>(0.22, 1.29)</b>	<b>753</b>	<b>0.18</b>

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Bellevue Hospital Center</b>								
#Attubato M	230	2	0.87	0.98	0.78	(0.09, 2.81)	215	0.39
#Babaev A	10	1	10.00	1.19	7.40	(0.10,41.16)	3	0.00
#Feit F	249	0	0.00	0.62	0.00	(0.00, 2.08)	235	0.00
#Keller N	119	0	0.00	0.81	0.00	(0.00, 3.37)	101	0.00
#Pena Sing I	650	6	0.92	0.96	0.85	(0.31, 1.84)	596	0.54
##Slater J	105	2	1.90	1.13	1.49	(0.17, 5.37)	90	1.85
All Others	147	1	0.68	0.62	0.96	(0.01, 5.36)	139	0.00
<b>TOTAL</b>	<b>1510</b>	<b>12</b>	<b>0.79</b>	<b>0.88</b>	<b>0.80</b>	<b>(0.41, 1.40)</b>	<b>1379</b>	<b>0.44</b>
<b>Beth Israel Medical Center</b>								
#Bhambhani G	584	1	0.17	0.25	0.61	(0.01, 3.41)	584	0.46
Fox J	1946	18	0.92	0.91	0.89	(0.53, 1.41)	1864	0.66
#Gowda R	724	9	1.24	1.15	0.95	(0.44, 1.81)	675	0.73
##Kantrowitz N	390	4	1.03	0.55	1.66	(0.45, 4.24)	388	1.24
##Kwan T	445	1	0.22	0.33	0.60	(0.01, 3.36)	441	0.46
##Lee P C	7	0	0.00	0.20	0.00	(0.00,100.0)	7	0.00
Nero T	263	3	1.14	0.75	1.35	(0.27, 3.93)	235	1.35
Patel R H	120	1	0.83	0.55	1.34	(0.02, 7.48)	120	1.07
##Rentrop K	19	0	0.00	0.18	0.00	(0.00,96.65)	19	0.00
#Shaknovich A	110	2	1.82	0.43	3.75	(0.42,13.53)	110	2.69
##Wilentz J	8	0	0.00	0.30	0.00	(0.00,100.0)	7	0.00
All Others	132	0	0.00	0.46	0.00	(0.00, 5.27)	130	0.00
<b>TOTAL</b>	<b>4748</b>	<b>39</b>	<b>0.82</b>	<b>0.73</b>	<b>0.99</b>	<b>(0.70, 1.35)</b>	<b>4580</b>	<b>0.77</b>
<b>Brookdale Hospital Medical Center</b>								
#Chadow H	7	2	28.57	11.03	2.28	(0.26, 8.24)	.	.
All Others	7	1	14.29	7.86	1.60	(0.02, 8.91)	.	.
<b>TOTAL</b>	<b>14</b>	<b>3</b>	<b>21.43</b>	<b>9.44</b>	<b>2.00</b>	<b>(0.40, 5.84)</b>	<b>.</b>	<b>.</b>
<b>Buffalo General Hospital</b>								
Conley J	1293	7	0.54	0.54	0.89	(0.36, 1.83)	1260	0.52
#Corbelli J	9	0	0.00	1.38	0.00	(0.00,25.91)	.	.
#Farhi E	973	10	1.03	0.99	0.91	(0.44, 1.68)	883	0.48
##Haq N	2	0	0.00	2.88	0.00	(0.00,56.07)	.	.
#Masud A	266	1	0.38	0.53	0.63	(0.01, 3.48)	256	0.00
##Morris W	562	4	0.71	0.83	0.76	(0.20, 1.94)	520	0.49
#Nguyen-Ho P	3	0	0.00	1.19	0.00	(0.00,90.45)	1	0.00
##Phadke K	7	0	0.00	1.54	0.00	(0.00,30.02)	2	0.00
#Sullivan P	97	3	3.09	0.57	4.76 *	(0.96,13.90)	93	1.56
Visco J	1297	5	0.39	0.42	0.81	(0.26, 1.88)	1262	0.53
All Others	29	0	0.00	0.38	0.00	(0.00,29.54)	26	0.00
<b>TOTAL</b>	<b>4538</b>	<b>30</b>	<b>0.66</b>	<b>0.64</b>	<b>0.91</b>	<b>(0.61, 1.30)</b>	<b>4303</b>	<b>0.49</b>
<b>Champlain Valley Physicians Hospital</b>								
Bradley W	326	3	0.92	1.20	0.68	(0.14, 1.98)	248	0.73
Garrand T	533	3	0.56	1.00	0.50	(0.10, 1.45)	405	0.66
##Giambartolomei A	1	0	0.00	8.34	0.00	(0.00,38.71)	1	0.00
<b>TOTAL</b>	<b>860</b>	<b>6</b>	<b>0.70</b>	<b>1.08</b>	<b>0.57</b>	<b>(0.21, 1.24)</b>	<b>654</b>	<b>0.67</b>

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Crouse Hospital</b>								
##Amin N	195	0	0.00	0.75	0.00	(0.00, 2.21)	168	0.00
#Battaglia J	878	14	1.59	0.64	2.21 *	(1.21, 3.70)	798	1.97 *
Berkery W	374	6	1.60	1.27	1.11	(0.40, 2.41)	313	1.05
#Bhan R	8	0	0.00	0.15	0.00	(0.00,100.0)	8	0.00
#Caputo R	12	1	8.33	1.26	5.81	(0.08,32.34)	9	0.00
#EL-Khally Z	170	3	1.76	0.75	2.07	(0.42, 6.06)	144	1.08
#Ford T	191	1	0.52	0.70	0.66	(0.01, 3.68)	161	0.00
##Giambartolomei A	5	0	0.00	0.36	0.00	(0.00,100.0)	3	0.00
#Iskander A	5	0	0.00	0.72	0.00	(0.00,90.03)	5	0.00
#Reger M	2	0	0.00	1.76	0.00	(0.00,91.59)	2	0.00
#Simons A	4	0	0.00	4.95	0.00	(0.00,16.32)	3	0.00
All Others	203	2	0.99	0.54	1.61	(0.18, 5.80)	184	0.77
<b>TOTAL</b>	<b>2047</b>	<b>27</b>	<b>1.32</b>	<b>0.78</b>	<b>1.49 *</b>	<b>(0.98, 2.17)</b>	<b>1798</b>	<b>1.19 *</b>
<b>Ellis Hospital</b>								
Cospito P	403	2	0.50	0.96	0.46	(0.05, 1.65)	303	0.67
#Dempsey S	103	0	0.00	0.48	0.00	(0.00, 6.50)	97	0.00
##Hogan R	169	0	0.00	0.58	0.00	(0.00, 3.30)	166	0.00
Jordan M	368	5	1.36	0.98	1.22	(0.39, 2.84)	230	1.76
#Kufs W	135	0	0.00	0.58	0.00	(0.00, 4.11)	131	0.00
Parkes R	575	5	0.87	1.12	0.69	(0.22, 1.60)	429	0.23
Weitz S	301	4	1.33	1.17	1.00	(0.27, 2.55)	201	0.60
<b>TOTAL</b>	<b>2054</b>	<b>16</b>	<b>0.78</b>	<b>0.96</b>	<b>0.71</b>	<b>(0.41, 1.16)</b>	<b>1557</b>	<b>0.49</b>
<b>Elmhurst Hospital Center</b>								
#Kamran M	365	0	0.00	0.94	0.00	(0.00, 0.94)	230	0.00
#Kim M	14	1	7.14	1.92	3.28	(0.04,18.26)	.	.
#Krishnan P	33	0	0.00	2.80	0.00	(0.00, 3.49)	.	.
All Others	2	0	0.00	1.91	0.00	(0.00,84.39)	.	.
<b>TOTAL</b>	<b>414</b>	<b>1</b>	<b>0.24</b>	<b>1.13</b>	<b>0.19</b>	<b>(0.00, 1.05)</b>	<b>230</b>	<b>0.00</b>
<b>Erie County Medical Center</b>								
Dashkoff N	673	13	1.93	1.15	1.48	(0.79, 2.53)	491	0.47
##Emerson R	47	1	2.13	2.94	0.64	(0.01, 3.55)	26	0.00
##Phadke K	108	1	0.93	1.43	0.57	(0.01, 3.17)	90	1.48
Young H	73	5	6.85	3.19	1.89	(0.61, 4.42)	4	0.00
All Others	116	2	1.72	0.70	2.18	(0.24, 7.87)	84	1.55
<b>TOTAL</b>	<b>1017</b>	<b>22</b>	<b>2.16</b>	<b>1.36</b>	<b>1.41 *</b>	<b>(0.88, 2.13)</b>	<b>695</b>	<b>0.68</b>
<b>Faxton-St. Lukes Healthcare- St.Lukes Div</b>								
#Kelberman M	3	0	0.00	3.16	0.00	(0.00,34.11)	.	.
#MacIsaac H	3	1	33.33	6.47	4.54	(0.06,25.25)	.	.
#Mathew T C	12	1	8.33	3.09	2.37	(0.03,13.21)	.	.
#Patel A	1	0	0.00	0.79	0.00	(0.00,100.0)	.	.
#Varma P	1	0	0.00	3.15	0.00	(0.00,100.0)	.	.
<b>TOTAL</b>	<b>20</b>	<b>2</b>	<b>10.00</b>	<b>3.49</b>	<b>2.52</b>	<b>(0.28, 9.10)</b>	.	.

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Glens Falls Hospital</b>								
##Brady S	2	0	0.00	1.45	0.00	(0.00,100.0)	.	.
##Delago A	11	1	9.09	3.14	2.55	(0.03,14.18)	.	.
#Desantis J	17	1	5.88	2.90	1.79	(0.02, 9.94)	.	.
##Esper D	8	0	0.00	1.04	0.00	(0.00,38.72)	.	.
##Hogan R	287	7	2.44	1.13	1.90	(0.76, 3.92)	162	2.48
##Papaleo R	6	0	0.00	2.13	0.00	(0.00,25.28)	.	.
##Papandrea L	1	0	0.00	0.62	0.00	(0.00,100.0)	.	.
#Reddy C	2	1	50.00	1.38	31.82	(0.42,100.0)	1	0.00
All Others	86	2	2.33	0.92	2.23	(0.25, 8.04)	63	0.00
<b>TOTAL</b>	<b>420</b>	<b>12</b>	<b>2.86</b>	<b>1.22</b>	<b>2.05 *</b>	<b>(1.06, 3.59)</b>	<b>226</b>	<b>1.85</b>
<b>Good Samaritan Hosp Med Ctr- West Islip</b>								
##Caselnova R	50	1	2.00	2.00	0.88	(0.01, 4.90)	.	.
##Coven D	4	0	0.00	2.83	0.00	(0.00,28.50)	.	.
##Deutsch E	27	1	3.70	1.94	1.68	(0.02, 9.33)	.	.
##Hormozi S	42	1	2.38	2.03	1.03	(0.01, 5.75)	.	.
##Lee P J	61	3	4.92	2.24	1.94	(0.39, 5.66)	.	.
##Patel R B	45	0	0.00	1.86	0.00	(0.00, 3.85)	.	.
##Reich D	45	0	0.00	1.74	0.00	(0.00, 4.13)	.	.
<b>TOTAL</b>	<b>274</b>	<b>6</b>	<b>2.19</b>	<b>2.00</b>	<b>0.96</b>	<b>(0.35, 2.10)</b>	.	.
<b>Good Samaritan Hospital - Suffern</b>								
Brogno D	237	4	1.69	1.73	0.86	(0.23, 2.20)	149	1.19
Innerfield M	98	1	1.02	2.10	0.43	(0.01, 2.38)	48	1.69
#Kovar L	173	1	0.58	1.55	0.33	(0.00, 1.82)	101	0.00
Shih A C	149	3	2.01	1.80	0.99	(0.20, 2.88)	72	0.89
All Others	282	8	2.84	1.02	2.45 *	(1.06, 4.84)	219	1.21
<b>TOTAL</b>	<b>939</b>	<b>17</b>	<b>1.81</b>	<b>1.53</b>	<b>1.04</b>	<b>(0.61, 1.66)</b>	<b>589</b>	<b>1.04</b>
<b>Huntington Hospital</b>								
##Bagga R	20	0	0.00	1.71	0.00	(0.00, 9.43)	.	.
##Caselnova R	9	0	0.00	1.53	0.00	(0.00,23.51)	.	.
##Freeman J	1	0	0.00	1.37	0.00	(0.00,100.0)	.	.
##Gambino A	2	0	0.00	1.08	0.00	(0.00,100.0)	.	.
##Jauhar R	2	0	0.00	1.23	0.00	(0.00,100.0)	.	.
##Marchant D	1	0	0.00	0.70	0.00	(0.00,100.0)	.	.
##Park C	1	0	0.00	0.94	0.00	(0.00,100.0)	.	.
#Patcha R	39	1	2.56	1.61	1.40	(0.02, 7.80)	.	.
##Schwartz R	1	0	0.00	0.67	0.00	(0.00,100.0)	.	.
##Strizik B	44	3	6.82	2.03	2.95	(0.59, 8.62)	.	.
All Others	11	0	0.00	1.57	0.00	(0.00,18.65)	.	.
<b>TOTAL</b>	<b>131</b>	<b>4</b>	<b>3.05</b>	<b>1.72</b>	<b>1.56</b>	<b>(0.42, 3.99)</b>	.	.
<b>Jamaica Hospital Medical Center</b>								
#Gadhvi P	2	0	0.00	0.71	0.00	(0.00,100.0)	.	.
#Garratt K	1	0	0.00	13.44	0.00	(0.00,24.02)	.	.
#Halkin A	1	0	0.00	1.67	0.00	(0.00,100.0)	.	.
#Jain S	32	0	0.00	2.06	0.00	(0.00, 4.90)	.	.
#Lasic Z	51	1	1.96	2.13	0.81	(0.01, 4.51)	.	.
##Puma A	3	0	0.00	1.21	0.00	(0.00,88.66)	.	.

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Jamaica Hospital Medical Center, <i>continued</i></b>								
#Reimers C	1	0	0.00	0.94	0.00	(0.00,100.0)	.	.
#Soffer D	8	0	0.00	2.18	0.00	(0.00,18.56)	.	.
##Suleman J	8	3	37.50	2.60	12.72 *	(2.56,37.15)	.	.
#Yang Y	3	0	0.00	1.32	0.00	(0.00,81.29)	.	.
All Others	2	0	0.00	10.47	0.00	(0.00,15.42)	.	.
<b>TOTAL</b>	<b>112</b>	<b>4</b>	<b>3.57</b>	<b>2.31</b>	<b>1.36</b>	<b>(0.37, 3.49)</b>	.	.
<b>Lenox Hill Hospital</b>								
Cohen H	706	7	0.99	0.67	1.29	(0.52, 2.67)	667	0.86
##Dominguez A	506	5	0.99	0.93	0.93	(0.30, 2.17)	503	0.71
#Gadhvi P	80	0	0.00	0.73	0.00	(0.00, 5.56)	76	0.00
#Garratt K	790	7	0.89	0.74	1.06	(0.42, 2.18)	728	0.85
##Geizhals M	23	0	0.00	0.60	0.00	(0.00,23.34)	23	0.00
#Halkin A	344	3	0.87	0.92	0.84	(0.17, 2.45)	312	0.54
Iyer S	413	1	0.24	0.66	0.32	(0.00, 1.79)	387	0.34
#Jain S	170	2	1.18	0.80	1.30	(0.15, 4.70)	165	1.01
##Jayasundera T	345	0	0.00	0.46	0.00	(0.00, 2.03)	342	0.00
#Kesanakurthy S	350	1	0.29	0.55	0.46	(0.01, 2.55)	346	0.36
#Lasic Z	587	3	0.51	0.83	0.54	(0.11, 1.59)	544	0.18
#Parikh M	186	1	0.54	0.59	0.81	(0.01, 4.50)	180	0.63
##Puma A	398	2	0.50	0.55	0.80	(0.09, 2.90)	388	0.68
#Reimers C	1360	11	0.81	0.73	0.97	(0.48, 1.73)	1299	0.45
Roubin G	556	6	1.08	0.74	1.29	(0.47, 2.80)	523	1.00
#Soffer D	534	4	0.75	0.69	0.96	(0.26, 2.45)	504	0.82
##Wilentz J	132	2	1.52	0.63	2.11	(0.24, 7.62)	130	0.99
#Yang Y	330	0	0.00	0.65	0.00	(0.00, 1.52)	302	0.00
All Others	378	4	1.06	0.95	0.98	(0.26, 2.52)	349	0.69
<b>TOTAL</b>	<b>8188</b>	<b>59</b>	<b>0.72</b>	<b>0.72</b>	<b>0.88</b>	<b>(0.67, 1.13)</b>	<b>7768</b>	<b>0.59</b>
<b>Long Island College Hospital</b>								
#Gowda R	5	1	20.00	3.80	4.63	(0.06,25.77)	.	.
##Kantrowitz N	77	1	1.30	3.16	0.36	(0.00, 2.01)	.	.
<b>TOTAL</b>	<b>82</b>	<b>2</b>	<b>2.44</b>	<b>3.20</b>	<b>0.67</b>	<b>(0.08, 2.42)</b>	.	.
<b>Long Island Jewish Medical Center</b>								
##Bagga R	130	0	0.00	0.46	0.00	(0.00, 5.44)	128	0.00
##Blumenthal S	2	0	0.00	0.99	0.00	(0.00,100.0)	2	0.00
##Freeman J	19	0	0.00	2.31	0.00	(0.00, 7.35)	5	0.00
##Friedman G H	371	4	1.08	0.95	1.00	(0.27, 2.57)	339	0.79
#Green S	18	0	0.00	3.56	0.00	(0.00, 5.05)	1	0.00
##Grunwald A	505	4	0.79	0.92	0.76	(0.20, 1.94)	469	0.54
Hameedi A	218	0	0.00	0.19	0.00	(0.00, 7.78)	216	0.00
##Hormozi S	3	0	0.00	0.47	0.00	(0.00,100.0)	3	0.00
##Jauhar R	1202	9	0.75	0.91	0.72	(0.33, 1.37)	1033	0.57
#Kaplan B	1374	11	0.80	0.95	0.75	(0.37, 1.33)	1257	0.67
##Katz S	23	0	0.00	1.69	0.00	(0.00, 8.29)	5	0.00
Kim B	56	0	0.00	0.29	0.00	(0.00,19.95)	56	0.00
##Koss J	453	4	0.88	0.79	0.98	(0.26, 2.52)	423	0.69
#Lee A	19	0	0.00	2.91	0.00	(0.00, 5.84)	2	0.00

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Long Island Jewish Medical Center, <i>continued</i></b>								
##Lee P J	4	0	0.00	0.26	0.00	(0.00,100.0)	4	0.00
##Marchant D	28	0	0.00	2.57	0.00	(0.00, 4.49)	1	0.00
#Musso J	5	0	0.00	0.56	0.00	(0.00,100.0)	4	0.00
#Ong L Y	22	0	0.00	3.25	0.00	(0.00, 4.51)	3	0.00
##Padmanabhan V	4	0	0.00	1.26	0.00	(0.00,64.22)	4	0.00
##Park C	739	8	1.08	1.29	0.74	(0.32, 1.45)	602	0.56
##Reich D	102	0	0.00	1.07	0.00	(0.00, 2.96)	101	0.00
##Strizik B	53	0	0.00	1.06	0.00	(0.00, 5.73)	48	0.00
##Suleman J	36	0	0.00	0.56	0.00	(0.00,16.07)	33	0.00
All Others	49	0	0.00	0.82	0.00	(0.00, 7.99)	43	0.00
<b>TOTAL</b>	<b>5435</b>	<b>40</b>	<b>0.74</b>	<b>0.96</b>	<b>0.67</b>	<b>(0.48, 0.92)</b>	<b>4782</b>	<b>0.55</b>
<b>M I Bassett Hospital</b>								
#Clark V	361	9	2.49	0.88	2.50 *	(1.14, 4.75)	294	2.57 *
#Menzies D	322	4	1.24	0.93	1.18	(0.32, 3.02)	267	0.75
All Others	193	5	2.59	1.16	1.96	(0.63, 4.58)	154	0.00
<b>TOTAL</b>	<b>876</b>	<b>18</b>	<b>2.05</b>	<b>0.96</b>	<b>1.89 *</b>	<b>(1.12, 2.98)</b>	<b>715</b>	<b>1.24</b>
<b>Maimonides Medical Center</b>								
Borgen E	980	12	1.22	1.39	0.77	(0.40, 1.35)	792	0.69
Frankel R	724	9	1.24	0.98	1.12	(0.51, 2.12)	677	0.95
Friedman M	323	5	1.55	1.49	0.92	(0.29, 2.14)	254	0.00
##Kantrowitz N	74	0	0.00	0.61	0.00	(0.00, 7.17)	74	0.00
##Lee P C	2	0	0.00	0.25	0.00	(0.00,100.0)	2	0.00
Malik B	1115	14	1.26	1.32	0.84	(0.46, 1.40)	908	0.48
#Shani J	1154	5	0.43	0.87	0.44	(0.14, 1.03)	1131	0.35
All Others	87	1	1.15	2.19	0.46	(0.01, 2.57)	46	0.00
<b>TOTAL</b>	<b>4459</b>	<b>46</b>	<b>1.03</b>	<b>1.18</b>	<b>0.77</b>	<b>(0.56, 1.03)</b>	<b>3884</b>	<b>0.52</b>
<b>Mercy Hospital</b>								
#Calandra S	436	1	0.23	1.11	0.18	(0.00, 1.01)	340	0.25
##Emerson R	274	3	1.09	1.26	0.77	(0.15, 2.24)	176	0.00
#Gelormini J	344	6	1.74	1.19	1.29	(0.47, 2.80)	255	0.64
##Haq N	313	2	0.64	0.96	0.58	(0.07, 2.11)	256	0.30
#Meltser H	251	5	1.99	1.95	0.90	(0.29, 2.10)	189	0.35
##Morris W	378	1	0.26	0.96	0.24	(0.00, 1.34)	313	0.35
<b>TOTAL</b>	<b>1996</b>	<b>18</b>	<b>0.90</b>	<b>1.20</b>	<b>0.66</b>	<b>(0.39, 1.05)</b>	<b>1529</b>	<b>0.32</b>
<b>Millard Fillmore Hospital</b>								
#Calandra S	164	0	0.00	0.56	0.00	(0.00, 3.51)	161	0.00
#Corbelli J	651	9	1.38	0.97	1.25	(0.57, 2.38)	597	0.97
##Emerson R	2	0	0.00	0.12	0.00	(0.00,100.0)	2	0.00
#Farhi E	2	0	0.00	4.36	0.00	(0.00,37.02)	.	.
#Gelormini J	177	0	0.00	0.81	0.00	(0.00, 2.26)	167	0.00
##Haq N	119	1	0.84	0.52	1.41	(0.02, 7.84)	111	1.14
#Masud A	408	4	0.98	0.86	1.00	(0.27, 2.56)	372	0.54
#Meltser H	2	0	0.00	0.75	0.00	(0.00,100.0)	2	0.00
##Morris W	125	1	0.80	0.88	0.80	(0.01, 4.47)	119	0.00
#Nguyen-Ho P	242	3	1.24	1.25	0.87	(0.18, 2.54)	210	0.32
##Phadke K	959	9	0.94	0.89	0.93	(0.42, 1.77)	840	0.79

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Millard Fillmore Hospital, continued</b>								
#Sullivan P	2	0	0.00	1.83	0.00	(0.00,88.38)	2	0.00
<b>TOTAL</b>	<b>2853</b>	<b>27</b>	<b>0.95</b>	<b>0.90</b>	<b>0.93</b>	<b>(0.61, 1.35)</b>	<b>2583</b>	<b>0.63</b>
<b>Montefiore Medical Center - Moses</b>								
#Goldman A Y	349	5	1.43	0.70	1.79	(0.58, 4.18)	332	0.32
Greenberg M	784	7	0.89	0.95	0.83	(0.33, 1.71)	671	0.31
#Grose R	165	3	1.82	0.93	1.73	(0.35, 5.05)	144	0.00
#Johnson M	265	2	0.75	0.65	1.02	(0.11, 3.69)	255	0.79
Menegus M	775	9	1.16	1.09	0.94	(0.43, 1.78)	625	0.55
#Sehhat K	30	0	0.00	1.14	0.00	(0.00, 9.48)	25	0.00
#Sokol S	11	0	0.00	0.53	0.00	(0.00,55.52)	11	0.00
#Srinivas V	1	0	0.00	0.61	0.00	(0.00,100.0)	1	0.00
All Others	90	0	0.00	0.76	0.00	(0.00, 4.69)	77	0.00
<b>TOTAL</b>	<b>2470</b>	<b>26</b>	<b>1.05</b>	<b>0.92</b>	<b>1.01</b>	<b>(0.66, 1.48)</b>	<b>2141</b>	<b>0.42</b>
<b>Montefiore Medical Center - Weiler</b>								
Gotsis W	848	11	1.30	0.64	1.80 *	(0.90, 3.22)	779	1.61 *
Monrad E	556	9	1.62	0.89	1.59	(0.73, 3.02)	482	1.23
Silverman G	548	5	0.91	0.81	0.99	(0.32, 2.31)	465	0.78
#Sokol S	198	4	2.02	0.92	1.94	(0.52, 4.96)	174	0.68
#Srinivas V	606	8	1.32	0.87	1.33	(0.57, 2.62)	541	0.77
<b>TOTAL</b>	<b>2756</b>	<b>37</b>	<b>1.34</b>	<b>0.80</b>	<b>1.49 *</b>	<b>(1.05, 2.05)</b>	<b>2441</b>	<b>1.10 *</b>
<b>Mt. Sinai Hospital</b>								
Barman N	204	3	1.47	1.36	0.95	(0.19, 2.78)	176	0.69
##Jayasundera T	626	2	0.32	0.51	0.55	(0.06, 1.97)	611	0.47
#Kamran M	443	0	0.00	0.60	0.00	(0.00, 1.22)	426	0.00
#Kim M	1626	12	0.74	1.07	0.61	(0.31, 1.06)	1551	0.47
Kini A	2780	11	0.40	0.84	0.41 **	(0.21, 0.74)	2644	0.34
#Krishnan P	668	9	1.35	1.10	1.08	(0.49, 2.06)	620	0.94
#Lee J	267	1	0.37	0.41	0.80	(0.01, 4.47)	265	0.55
##Lee P C	141	2	1.42	0.45	2.76	(0.31, 9.96)	141	1.80
Mittal N	205	1	0.49	0.34	1.28	(0.02, 7.12)	205	0.89
Moreno P	1179	13	1.10	1.08	0.90	(0.48, 1.54)	1098	0.71
Sharma S	3722	14	0.38	0.77	0.43 **	(0.24, 0.72)	3655	0.32 **
#Sherman W	26	0	0.00	0.48	0.00	(0.00,25.77)	26	0.00
##Suleman J	998	12	1.20	0.86	1.23	(0.63, 2.14)	962	1.05
#Weinberger J	2	0	0.00	0.35	0.00	(0.00,100.0)	2	0.00
All Others	143	0	0.00	0.49	0.00	(0.00, 4.64)	143	0.00
<b>TOTAL</b>	<b>13030</b>	<b>80</b>	<b>0.61</b>	<b>0.84</b>	<b>0.64 **</b>	<b>(0.51, 0.80)</b>	<b>12525</b>	<b>0.49</b>
<b>NY Hospital Medical Ctr of Queens</b>								
#Chang J	988	6	0.61	0.95	0.56	(0.21, 1.23)	886	0.21
Chiu Sungwai	154	0	0.00	0.33	0.00	(0.00, 6.41)	151	0.00
David M	110	2	1.82	0.31	5.20	(0.58,18.77)	108	3.98
##Friedman G H	17	0	0.00	0.77	0.00	(0.00,24.75)	15	0.00
##Geizhals M	279	1	0.36	0.58	0.54	(0.01, 3.00)	276	0.43
##Grunwald A	15	0	0.00	1.62	0.00	(0.00,13.27)	14	0.00
Gustafson G	811	8	0.99	0.75	1.16	(0.50, 2.28)	756	0.86
##Koss J	6	0	0.00	0.40	0.00	(0.00,100.0)	6	0.00



Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>NY Hospital Medical Ctr of Queens, <i>continued</i></b>								
Papadakos S	1093	10	0.91	1.01	0.80	(0.38, 1.46)	960	0.39
##Park J	4	0	0.00	0.12	0.00	(0.00,100.0)	4	0.00
#Perry-Bottinger L	7	0	0.00	0.68	0.00	(0.00,67.77)	7	0.00
All Others	7	0	0.00	1.42	0.00	(0.00,32.60)	6	0.00
<b>TOTAL</b>	<b>3491</b>	<b>27</b>	<b>0.77</b>	<b>0.85</b>	<b>0.80</b>	<b>(0.53, 1.17)</b>	<b>3189</b>	<b>0.48</b>
<b>NY Methodist Hospital</b>								
#Afflu E	33	0	0.00	0.23	0.00	(0.00,42.93)	33	0.00
#Badero O	124	0	0.00	0.31	0.00	(0.00, 8.45)	124	0.00
##Dominguez A	19	0	0.00	0.40	0.00	(0.00,42.42)	19	0.00
#Hoyek W	268	2	0.75	0.52	1.27	(0.14, 4.58)	267	0.89
##Palta S	88	0	0.00	0.66	0.00	(0.00, 5.55)	88	0.00
##Puma A	344	6	1.74	0.75	2.05	(0.75, 4.47)	335	1.59
#Reddy C	282	2	0.71	0.66	0.95	(0.11, 3.42)	273	0.77
#Rouvelas P	46	0	0.00	0.71	0.00	(0.00, 9.94)	46	0.00
Sacchi T	1643	15	0.91	0.79	1.02	(0.57, 1.69)	1533	0.64
#Shaknovich A	184	0	0.00	0.53	0.00	(0.00, 3.28)	183	0.00
#Tai Z	109	0	0.00	0.48	0.00	(0.00, 6.19)	107	0.00
All Others	97	2	2.06	1.10	1.65	(0.19, 5.96)	95	1.55
<b>TOTAL</b>	<b>3237</b>	<b>27</b>	<b>0.83</b>	<b>0.70</b>	<b>1.05</b>	<b>(0.69, 1.52)</b>	<b>3103</b>	<b>0.70</b>
<b>NYP Hospital - Columbia Presbyterian</b>								
Apfelbaum M	186	0	0.00	0.83	0.00	(0.00, 2.10)	164	0.00
Collins M	846	11	1.30	1.05	1.09	(0.54, 1.94)	827	0.66
Colombo A	35	0	0.00	0.74	0.00	(0.00,12.53)	35	0.00
Dangas G	727	5	0.69	0.90	0.67	(0.22, 1.57)	682	0.72
Gray W	99	4	4.04	1.65	2.16	(0.58, 5.53)	83	1.87
#Grose R	249	1	0.40	0.72	0.49	(0.01, 2.75)	246	0.35
Irobunda C	101	0	0.00	0.48	0.00	(0.00, 6.63)	101	0.00
#Johnson M	120	0	0.00	0.55	0.00	(0.00, 4.94)	118	0.00
#Kesanakurthy S	375	2	0.53	0.75	0.63	(0.07, 2.27)	373	0.48
#Kovar L	1	0	0.00	0.13	0.00	(0.00,100.0)	1	0.00
Kreps E	384	7	1.82	1.33	1.21	(0.48, 2.49)	359	0.74
#Laifer L	2	0	0.00	0.67	0.00	(0.00,100.0)	2	0.00
Leon M	351	4	1.14	0.78	1.28	(0.35, 3.29)	344	0.72
Mehran R	281	2	0.71	0.73	0.86	(0.10, 3.10)	261	0.42
Moses J	1890	5	0.26	0.55	0.43	(0.14, 1.00)	1889	0.30
#Moussa I	658	4	0.61	0.80	0.66	(0.18, 1.70)	628	0.59
#Perry-Bottinger L	47	1	2.13	0.33	5.74	(0.08,31.93)	46	4.60
Rabbani L	524	1	0.19	0.75	0.23	(0.00, 1.25)	483	0.26
#Sherman W	291	2	0.69	1.04	0.58	(0.07, 2.10)	259	0.63
#Singh V	605	2	0.33	0.57	0.51	(0.06, 1.85)	590	0.51
Stone G	225	3	1.33	0.98	1.19	(0.24, 3.49)	212	0.71
Teirstein P	77	2	2.60	1.39	1.64	(0.18, 5.93)	74	1.23
#Weinberger J	123	2	1.63	1.04	1.38	(0.15, 4.96)	113	0.84
Weisz G	454	9	1.98	1.07	1.64	(0.75, 3.11)	418	1.22
All Others	498	9	1.81	1.27	1.25	(0.57, 2.38)	451	1.10
<b>TOTAL</b>	<b>9149</b>	<b>76</b>	<b>0.83</b>	<b>0.83</b>	<b>0.88</b>	<b>(0.69, 1.10)</b>	<b>8759</b>	<b>0.64</b>

Table 3 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>NYP Hospital - Weill Cornell</b>								
Bergman G	897	7	0.78	1.05	0.65	(0.26, 1.35)	803	0.59
#Charney R	288	3	1.04	1.23	0.75	(0.15, 2.18)	279	0.55
##Geizhals M	91	1	1.10	0.73	1.33	(0.02, 7.38)	88	1.09
#Hong M	223	3	1.35	2.04	0.58	(0.12, 1.70)	191	0.34
Iacovone F	208	4	1.92	0.85	1.99	(0.54, 5.10)	196	1.71
#Messinger D	193	1	0.52	1.02	0.45	(0.01, 2.49)	184	0.00
Minutello R	757	6	0.79	1.40	0.50	(0.18, 1.09)	610	0.60
#Moussa I	5	0	0.00	1.17	0.00	(0.00,55.21)	4	0.00
#Naidu S	395	9	2.28	1.32	1.52	(0.69, 2.88)	334	1.01
##Padmanabhan V	4	0	0.00	0.74	0.00	(0.00,100.0)	4	0.00
#Parikh M	1082	3	0.28	0.75	0.33	(0.07, 0.95)	1020	0.21
Wong S	835	6	0.72	0.84	0.75	(0.27, 1.63)	755	0.70
All Others	81	0	0.00	2.04	0.00	(0.00, 1.95)	55	0.00
<b>TOTAL</b>	<b>5059</b>	<b>43</b>	<b>0.85</b>	<b>1.08</b>	<b>0.69</b>	<b>(0.50, 0.93)</b>	<b>4523</b>	<b>0.57</b>
<b>NYU Hospitals Center</b>								
##Angelopoulos P	3	0	0.00	0.80	0.00	(0.00,100.0)	3	0.00
#Attubato M	718	4	0.56	0.89	0.55	(0.15, 1.41)	661	0.39
#Babaev A	441	2	0.45	0.56	0.71	(0.08, 2.57)	433	0.31
#Feit F	722	1	0.14	0.58	0.21	(0.00, 1.17)	685	0.17
#Keller N	7	0	0.00	1.55	0.00	(0.00,29.76)	3	0.00
##Kwan T	4	0	0.00	0.38	0.00	(0.00,100.0)	4	0.00
#Pena Sing I	181	1	0.55	1.22	0.40	(0.01, 2.21)	169	0.00
##Rentrop K	2	0	0.00	0.22	0.00	(0.00,100.0)	2	0.00
#Shani J	1	0	0.00	0.15	0.00	(0.00,100.0)	1	0.00
##Slater J	271	3	1.11	0.57	1.70	(0.34, 4.97)	253	0.60
All Others	34	0	0.00	0.78	0.00	(0.00,12.21)	31	0.00
<b>TOTAL</b>	<b>2384</b>	<b>11</b>	<b>0.46</b>	<b>0.72</b>	<b>0.56</b>	<b>(0.28, 1.01)</b>	<b>2245</b>	<b>0.31</b>
<b>North Shore University Hospital</b>								
##Angelopoulos P	10	0	0.00	0.43	0.00	(0.00,74.55)	10	0.00
##Bagga R	172	0	0.00	0.48	0.00	(0.00, 3.90)	168	0.00
##Balchandani R	5	0	0.00	0.55	0.00	(0.00,100.0)	5	0.00
##Blumenthal S	14	0	0.00	0.59	0.00	(0.00,38.79)	14	0.00
##Caselnova R	707	6	0.85	0.69	1.09	(0.40, 2.36)	671	0.95
#Chang J	2	0	0.00	0.27	0.00	(0.00,100.0)	1	0.00
##Coven D	73	1	1.37	0.30	3.98	(0.05,22.17)	72	2.69
##Dervan J	3	0	0.00	0.17	0.00	(0.00,100.0)	3	0.00
##Deutsch E	487	3	0.62	0.54	1.01	(0.20, 2.96)	482	0.77
##Freeman J	677	6	0.89	0.92	0.85	(0.31, 1.84)	578	1.06
##Friedman G H	119	4	3.36	0.65	4.53 *	(1.22,11.61)	110	3.04
##Gambino A	90	1	1.11	0.37	2.68	(0.03,14.89)	90	1.89
#Green S	690	5	0.72	1.10	0.58	(0.19, 1.35)	573	0.50
##Grella R	5	0	0.00	0.20	0.00	(0.00,100.0)	5	0.00
##Grunwald A	92	2	2.17	1.11	1.72	(0.19, 6.22)	81	1.87
##Hormozi S	338	1	0.30	0.60	0.44	(0.01, 2.43)	334	0.34
##Jauhar R	30	0	0.00	1.78	0.00	(0.00, 6.05)	2	0.00
#Kaplan B	41	0	0.00	1.74	0.00	(0.00, 4.53)	2	0.00
##Katz S	641	4	0.62	0.89	0.62	(0.17, 1.58)	559	0.57
##Koss J	72	1	1.39	0.91	1.35	(0.02, 7.51)	63	0.00

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>North Shore University Hospital, <i>continued</i></b>								
##Lederman S	164	0	0.00	0.59	0.00	(0.00, 3.35)	159	0.00
#Lee A	751	6	0.80	1.15	0.61	(0.22, 1.33)	606	0.36
##Lee P J	568	1	0.18	0.56	0.28	(0.00, 1.54)	560	0.23
##Marchant D	445	3	0.67	0.97	0.61	(0.12, 1.79)	354	0.64
#Musso J	62	0	0.00	0.38	0.00	(0.00,13.84)	62	0.00
#Ong L Y	793	0	0.00	0.91	0.00 **	(0.00, 0.45)	707	0.00 **
##Padmanabhan V	167	2	1.20	0.67	1.58	(0.18, 5.71)	159	0.00
##Park C	54	1	1.85	2.61	0.63	(0.01, 3.48)	7	0.00
##Park J	137	0	0.00	0.34	0.00	(0.00, 7.01)	137	0.00
#Patcha R	291	3	1.03	0.53	1.72	(0.34, 5.01)	283	0.48
##Patel R B	285	1	0.35	0.46	0.67	(0.01, 3.74)	275	0.54
##Rehman A	6	0	0.00	0.67	0.00	(0.00,79.93)	6	0.00
##Reich D	388	1	0.26	0.53	0.43	(0.01, 2.37)	383	0.31
##Rosenband M	51	0	0.00	0.48	0.00	(0.00,13.32)	50	0.00
#Sassower M	25	0	0.00	0.31	0.00	(0.00,42.03)	25	0.00
##Schwartz R	164	0	0.00	0.49	0.00	(0.00, 4.00)	163	0.00
##Strizik B	445	4	0.90	0.90	0.88	(0.24, 2.26)	414	0.84
#Wachsman D	190	0	0.00	0.82	0.00	(0.00, 2.08)	177	0.00
#Witkes D	202	2	0.99	0.56	1.56	(0.18, 5.63)	198	1.18
##Zisfein J	127	2	1.57	0.65	2.14	(0.24, 7.74)	122	1.70
All Others	371	2	0.54	0.86	0.55	(0.06, 2.00)	321	0.35
<b>TOTAL</b>	<b>9954</b>	<b>62</b>	<b>0.62</b>	<b>0.79</b>	<b>0.69</b>	<b>(0.53, 0.89)</b>	<b>8991</b>	<b>0.57</b>
<b>Rochester General Hospital</b>								
Berlowitz M	498	4	0.80	0.83	0.85	(0.23, 2.17)	388	0.26
#Chockalingam S	447	6	1.34	0.99	1.20	(0.44, 2.61)	387	0.65
##Doling M	7	0	0.00	0.34	0.00	(0.00,100.0)	7	0.00
Fitzpatrick P	351	2	0.57	0.84	0.59	(0.07, 2.14)	263	0.00
Gacioch G	400	4	1.00	0.94	0.94	(0.25, 2.40)	290	0.00
Mathew T M	653	10	1.53	0.73	1.84 *	(0.88, 3.39)	605	1.89 *
#Ong L S	2752	17	0.62	0.65	0.84	(0.49, 1.34)	2597	0.61
##Patel T	818	8	0.98	1.01	0.85	(0.37, 1.68)	786	0.63
Scortichini D	290	3	1.03	0.63	1.44	(0.29, 4.21)	282	1.08
#Stuver T	1006	14	1.39	0.97	1.27	(0.69, 2.13)	801	0.77
<b>TOTAL</b>	<b>7222</b>	<b>68</b>	<b>0.94</b>	<b>0.80</b>	<b>1.04</b>	<b>(0.81, 1.32)</b>	<b>6406</b>	<b>0.69</b>
<b>SVCMC - St. Vincents</b>								
#Acuna D	79	2	2.53	0.91	2.44	(0.27, 8.80)	66	1.87
#Bhambhani G	942	5	0.53	0.28	1.69	(0.54, 3.94)	942	1.23
Braff R	70	0	0.00	0.83	0.00	(0.00, 5.59)	58	0.00
Chokshi A	335	0	0.00	0.30	0.00	(0.00, 3.25)	335	0.00
Coppola J	403	2	0.50	0.57	0.76	(0.09, 2.75)	356	0.78
##Dominguez A	103	1	0.97	0.61	1.40	(0.02, 7.81)	103	1.01
#Farid A	7	0	0.00	0.29	0.00	(0.00,100.0)	7	0.00
Hasan C	146	3	2.05	0.47	3.83	(0.77,11.18)	145	2.76
Kurian D	275	4	1.45	0.65	1.98	(0.53, 5.08)	253	1.26
##Kwan T	341	0	0.00	0.37	0.00	(0.00, 2.53)	337	0.00
#Lee J	2	0	0.00	0.47	0.00	(0.00,100.0)	2	0.00
Nguyen T	336	1	0.30	0.86	0.31	(0.00, 1.70)	297	0.37
##Palta S	66	1	1.52	0.38	3.53	(0.05,19.63)	66	2.36

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>SVCMC - St. Vincents, <i>continued</i></b>								
##Rentrop K	34	0	0.00	0.23	0.00	(0.00,40.96)	34	0.00
#Sehhat K	138	3	2.17	0.86	2.21	(0.44, 6.47)	120	2.00
Seldon M	80	2	2.50	0.79	2.79	(0.31,10.09)	62	6.73 *
Srivastava S	130	2	1.54	0.64	2.11	(0.24, 7.63)	118	1.81
Staniloae C	429	5	1.17	0.62	1.66	(0.54, 3.88)	366	1.06
#Tai Z	132	4	3.03	0.81	3.29 *	(0.88, 8.41)	122	1.89
All Others	232	3	1.29	0.55	2.07	(0.42, 6.04)	219	1.94
<b>TOTAL</b>	<b>4280</b>	<b>38</b>	<b>0.89</b>	<b>0.53</b>	<b>1.49 *</b>	<b>(1.05, 2.04)</b>	<b>4008</b>	<b>1.17 *</b>
<b>South Nassau Communities Hospital</b>								
#Berke A	4	1	25.00	4.32	5.09	(0.07,28.33)	.	.
##Blumenthal S	1	0	0.00	0.43	0.00	(0.00,100.0)	.	.
##Freeman J	239	1	0.42	1.48	0.25	(0.00, 1.39)	156	0.63
#Lituchy A	22	1	4.55	1.60	2.50	(0.03,13.90)	7	0.00
#Minadeo J	26	0	0.00	4.24	0.00	(0.00, 2.93)	.	.
#Petrossian G	33	0	0.00	0.64	0.00	(0.00,15.29)	29	0.00
##Rehman A	19	0	0.00	1.85	0.00	(0.00, 9.21)	2	0.00
##Zisfein J	200	5	2.50	1.75	1.26	(0.40, 2.93)	142	0.49
All Others	1	0	0.00	1.99	0.00	(0.00,100.0)	.	.
<b>TOTAL</b>	<b>545</b>	<b>8</b>	<b>1.47</b>	<b>1.70</b>	<b>0.76</b>	<b>(0.33, 1.50)</b>	<b>336</b>	<b>0.51</b>
<b>Southside Hospital</b>								
##Caselnova R	34	0	0.00	1.35	0.00	(0.00, 7.06)	2	0.00
##Coven D	2	0	0.00	1.79	0.00	(0.00,90.20)	.	.
##Deutsch E	120	2	1.67	0.60	2.46	(0.28, 8.87)	102	2.06
##Hormozi S	57	0	0.00	1.22	0.00	(0.00, 4.63)	22	0.00
##Katz S	7	0	0.00	0.22	0.00	(0.00,100.0)	7	0.00
##Lee P J	148	0	0.00	0.60	0.00	(0.00, 3.66)	120	0.00
##Patel R B	203	0	0.00	0.60	0.00	(0.00, 2.64)	159	0.00
##Reich D	154	4	2.60	0.75	3.03	(0.82, 7.76)	117	4.92 *
<b>TOTAL</b>	<b>725</b>	<b>6</b>	<b>0.83</b>	<b>0.72</b>	<b>1.02</b>	<b>(0.37, 2.22)</b>	<b>529</b>	<b>1.61</b>
<b>St. Catherine of Siena Hospital</b>								
##Balchandani R	3	0	0.00	1.03	0.00	(0.00,100.0)	.	.
##Dervan J	2	0	0.00	3.66	0.00	(0.00,44.17)	.	.
##Deutsch E	15	0	0.00	1.01	0.00	(0.00,21.40)	.	.
##Grella R	2	0	0.00	2.92	0.00	(0.00,55.30)	.	.
##Hormozi S	18	0	0.00	2.78	0.00	(0.00, 6.45)	.	.
#Madrid A	4	0	0.00	0.83	0.00	(0.00,97.22)	.	.
##Patel R B	45	0	0.00	1.83	0.00	(0.00, 3.93)	.	.
##Rosenband M	15	0	0.00	1.71	0.00	(0.00,12.56)	1	0.00
#Shlofmitz R	3	0	0.00	0.87	0.00	(0.00,100.0)	.	.
#Tsiamtsiouris T	9	0	0.00	2.98	0.00	(0.00,12.06)	.	.
All Others	7	0	0.00	1.28	0.00	(0.00,36.06)	.	.
<b>TOTAL</b>	<b>123</b>	<b>0</b>	<b>0.00</b>	<b>1.88</b>	<b>0.00</b>	<b>(0.00, 1.40)</b>	<b>1</b>	<b>0.00</b>

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>St. Elizabeth Medical Center</b>								
#Kelberman M	565	6	1.06	0.84	1.11	(0.40, 2.41)	500	1.01
#MacIsaac H	914	14	1.53	1.11	1.21	(0.66, 2.03)	793	1.02
#Mathew T C	784	7	0.89	1.15	0.68	(0.27, 1.41)	699	0.76
Nassif R	482	8	1.66	0.91	1.61	(0.69, 3.18)	427	1.39
#Patel A	450	1	0.22	0.89	0.22	(0.00, 1.22)	378	0.00
#Varma P	473	7	1.48	0.98	1.33	(0.53, 2.75)	403	1.02
All Others	36	0	0.00	0.86	0.00	(0.00,10.45)	30	0.00
<b>TOTAL</b>	<b>3704</b>	<b>43</b>	<b>1.16</b>	<b>1.01</b>	<b>1.02</b>	<b>(0.73, 1.37)</b>	<b>3230</b>	<b>0.88</b>
<b>St. Francis Hospital</b>								
Abittan M	441	0	0.00	0.75	0.00	(0.00, 0.98)	425	0.00
Arkonac B	314	7	2.23	1.24	1.58	(0.63, 3.26)	276	0.91
#Berke A	465	6	1.29	1.40	0.81	(0.30, 1.76)	418	0.54
##Coven D	45	1	2.22	0.39	5.03	(0.07,28.00)	44	4.23
##Deutsch E	42	1	2.38	0.79	2.66	(0.03,14.80)	41	3.43
Ezratty A	327	2	0.61	0.79	0.68	(0.08, 2.46)	307	0.57
##Friedman G H	105	2	1.90	1.47	1.14	(0.13, 4.11)	99	0.60
##Gambino A	25	1	4.00	0.71	4.94	(0.06,27.49)	25	3.72
Goldman A B	209	2	0.96	0.87	0.97	(0.11, 3.52)	193	1.23
##Grunwald A	25	1	4.00	0.44	8.09	(0.11,45.00)	23	6.10
Gulotta R	299	3	1.00	0.87	1.01	(0.20, 2.95)	281	1.12
##Koss J	54	0	0.00	1.31	0.00	(0.00, 4.56)	46	0.00
##Lee P J	70	0	0.00	0.26	0.00	(0.00,17.44)	69	0.00
#Lituchy A	563	4	0.71	0.91	0.69	(0.18, 1.76)	526	0.60
#Madrid A	262	2	0.76	0.80	0.84	(0.09, 3.03)	218	0.91
#Minadeo J	326	5	1.53	1.38	0.98	(0.32, 2.28)	288	0.55
Oruci E	348	0	0.00	0.66	0.00	(0.00, 1.40)	340	0.00
Pappas T	297	1	0.34	0.65	0.45	(0.01, 2.53)	283	0.00
#Petrossian G	1451	17	1.17	0.96	1.08	(0.63, 1.72)	1361	0.77
##Rehman A	809	4	0.49	1.10	0.39	(0.11, 1.01)	730	0.10 **
##Reich D	43	0	0.00	0.37	0.00	(0.00,20.46)	42	0.00
##Schwartz R	6	0	0.00	0.31	0.00	(0.00,100.0)	6	0.00
#Shlofmitz R	1581	5	0.32	0.53	0.52	(0.17, 1.22)	1552	0.38
#Tsiamtsiouris T	546	7	1.28	0.88	1.29	(0.52, 2.65)	507	0.64
Venditto J	340	3	0.88	0.90	0.87	(0.17, 2.53)	324	0.00
#Wachsmann D	7	0	0.00	0.13	0.00	(0.00,100.0)	7	0.00
##Zisfein J	137	0	0.00	0.56	0.00	(0.00, 4.19)	129	0.00
All Others	394	2	0.51	0.74	0.60	(0.07, 2.18)	383	0.45
<b>TOTAL</b>	<b>9531</b>	<b>76</b>	<b>0.80</b>	<b>0.87</b>	<b>0.81</b>	<b>(0.64, 1.01)</b>	<b>8943</b>	<b>0.53</b>
<b>St. Josephs Hospital</b>								
##Amin N	151	1	0.66	1.06	0.55	(0.01, 3.06)	120	0.00
#Bhan R	534	4	0.75	0.74	0.89	(0.24, 2.28)	491	0.65
#Caputo R	1154	19	1.65	1.18	1.23	(0.74, 1.92)	1013	0.90
#El-Khally Z	28	1	3.57	0.98	3.22	(0.04,17.92)	28	2.32
Fischi M	451	2	0.44	0.99	0.39	(0.04, 1.42)	378	0.26
#Ford T	165	2	1.21	1.10	0.97	(0.11, 3.50)	137	0.87
##Giambartolomei A	541	8	1.48	1.18	1.10	(0.47, 2.17)	447	0.74
#Iskander A	608	11	1.81	1.39	1.14	(0.57, 2.05)	510	0.84
Kazzaz N	155	0	0.00	0.31	0.00	(0.00, 6.76)	153	0.00

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>St. Josephs Hospital, <i>continued</i></b>								
O'Hern M	316	6	1.90	1.27	1.31	(0.48, 2.86)	277	0.86
#Reger M	452	1	0.22	0.78	0.25	(0.00, 1.40)	384	0.27
#Simons A	855	4	0.47	0.81	0.51	(0.14, 1.30)	730	0.47
Walford G	408	2	0.49	0.82	0.53	(0.06, 1.90)	347	0.32
All Others	98	0	0.00	0.64	0.00	(0.00, 5.16)	83	0.00
<b>TOTAL</b>	<b>5916</b>	<b>61</b>	<b>1.03</b>	<b>1.01</b>	<b>0.90</b>	<b>(0.69, 1.16)</b>	<b>5098</b>	<b>0.65</b>
<b>St. Lukes Roosevelt Hospital-St. Lukes</b>								
##Coven D	110	0	0.00	0.94	0.00	(0.00, 3.11)	89	0.00
#Goldman A Y	9	0	0.00	0.41	0.00	(0.00,88.27)	9	0.00
#Hong M	259	4	1.54	0.90	1.51	(0.41, 3.87)	219	0.53
Leber R	229	2	0.87	1.04	0.74	(0.08, 2.67)	193	0.00
Palazzo A	150	1	0.67	0.89	0.66	(0.01, 3.68)	126	1.03
Simon C	445	7	1.57	1.88	0.73	(0.29, 1.51)	404	0.31
#Singh V	323	2	0.62	0.62	0.89	(0.10, 3.20)	294	0.00
##Slater J	64	1	1.56	1.00	1.38	(0.02, 7.67)	64	1.01
Tamis-Holland J	183	5	2.73	1.30	1.84	(0.59, 4.31)	150	0.71
##Wilentz J	115	0	0.00	0.43	0.00	(0.00, 6.57)	114	0.00
<b>TOTAL</b>	<b>1887</b>	<b>22</b>	<b>1.17</b>	<b>1.11</b>	<b>0.92</b>	<b>(0.58, 1.40)</b>	<b>1662</b>	<b>0.35</b>
<b>St. Peters Hospital</b>								
#Bishop G	365	7	1.92	0.92	1.83	(0.73, 3.76)	261	1.55
##Brady S	83	0	0.00	0.78	0.00	(0.00, 5.01)	68	0.00
Card H	144	1	0.69	0.61	1.01	(0.01, 5.61)	137	0.00
##Delago A	20	0	0.00	1.18	0.00	(0.00,13.66)	6	0.00
#Dempsey S	3	0	0.00	0.43	0.00	(0.00,100.0)	2	0.00
#Desantis J	175	1	0.57	0.57	0.88	(0.01, 4.92)	133	1.19
##Esper D	277	1	0.36	0.67	0.48	(0.01, 2.65)	247	0.45
#Kufs W	2	0	0.00	3.37	0.00	(0.00,47.89)	2	0.00
#Macina A	4	1	25.00	3.23	6.81	(0.09,37.88)	.	.
#Marmulstein M	118	0	0.00	1.28	0.00	(0.00, 2.14)	64	0.00
Martinelli M	710	5	0.70	0.76	0.81	(0.26, 1.89)	580	0.51
##Papaleo R	38	0	0.00	0.38	0.00	(0.00,22.16)	30	0.00
##Papandrea L	256	2	0.78	0.64	1.07	(0.12, 3.85)	217	1.48
#Roccario E	652	5	0.77	0.92	0.73	(0.24, 1.71)	499	0.41
All Others	13	1	7.69	1.33	5.08	(0.07,28.29)	8	0.00
<b>TOTAL</b>	<b>2860</b>	<b>24</b>	<b>0.84</b>	<b>0.81</b>	<b>0.91</b>	<b>(0.59, 1.36)</b>	<b>2254</b>	<b>0.60</b>
<b>Staten Island University Hospital- North</b>								
#Acuna D	5	0	0.00	0.61	0.00	(0.00,100.0)	5	0.00
Baldari D	315	3	0.95	1.00	0.84	(0.17, 2.45)	270	0.49
Duvvuri S	459	4	0.87	0.56	1.36	(0.37, 3.49)	431	1.23
#Farid A	369	0	0.00	0.29	0.00	(0.00, 3.04)	359	0.00
Homayuni A	373	0	0.00	0.52	0.00	(0.00, 1.65)	342	0.00
#Hoyek W	51	0	0.00	0.69	0.00	(0.00, 9.22)	48	0.00
Lenchur P	32	0	0.00	0.27	0.00	(0.00,37.57)	29	0.00
Malpeso J	317	4	1.26	0.57	1.93	(0.52, 4.95)	244	0.76
McCord D	480	3	0.63	0.55	1.00	(0.20, 2.91)	428	0.80
Mohan R	47	0	0.00	0.63	0.00	(0.00,10.87)	43	0.00
#Rouvelas P	81	1	1.23	0.57	1.90	(0.02,10.56)	80	1.30

Table 3 *continued*

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Staten Island University Hospital- North, <i>continued</i></b>								
Snyder S	191	2	1.05	0.58	1.59	(0.18, 5.73)	166	0.72
Swamy S	344	0	0.00	0.36	0.00	(0.00, 2.63)	333	0.00
Tamburrino F	307	2	0.65	0.63	0.92	(0.10, 3.31)	272	0.87
Vazzana T	180	1	0.56	0.45	1.10	(0.01, 6.10)	161	1.26
Warchol A	158	0	0.00	0.85	0.00	(0.00, 2.41)	126	0.00
All Others	35	0	0.00	0.54	0.00	(0.00,17.11)	25	0.00
<b>TOTAL</b>	<b>3744</b>	<b>20</b>	<b>0.53</b>	<b>0.56</b>	<b>0.84</b>	<b>(0.51, 1.29)</b>	<b>3362</b>	<b>0.60</b>
<b>Strong Memorial Hospital</b>								
Cove C	541	13	2.40	1.00	2.11 *	(1.12, 3.61)	412	2.12 *
##Doling M	835	7	0.84	0.75	0.98	(0.39, 2.02)	723	0.47
Garringer J	206	1	0.49	0.58	0.74	(0.01, 4.10)	180	0.00
Gassler J	718	9	1.25	0.91	1.22	(0.56, 2.31)	578	1.15
#Ling F	570	6	1.05	0.97	0.96	(0.35, 2.08)	431	0.69
#Narins C	807	15	1.86	1.03	1.59 *	(0.89, 2.63)	638	1.44 *
##Patel T	36	0	0.00	0.56	0.00	(0.00,16.01)	36	0.00
Pomerantz R	224	4	1.79	0.95	1.66	(0.45, 4.25)	140	1.21
All Others	20	0	0.00	0.74	0.00	(0.00,21.89)	17	0.00
<b>TOTAL</b>	<b>3957</b>	<b>55</b>	<b>1.39</b>	<b>0.90</b>	<b>1.36 *</b>	<b>(1.02, 1.77)</b>	<b>3155</b>	<b>1.08 *</b>
<b>United Health Services - Wilson Hospital</b>								
Ahmed O	326	3	0.92	1.14	0.71	(0.14, 2.08)	240	0.59
Jamal N	617	6	0.97	1.05	0.82	(0.30, 1.78)	532	0.00
Kashou H	468	4	0.85	0.93	0.81	(0.22, 2.07)	353	1.25
Rehman A U	359	4	1.11	1.27	0.77	(0.21, 1.98)	282	1.47
Stamato N	335	2	0.60	0.90	0.58	(0.07, 2.11)	258	0.85
Traverse P	477	5	1.05	1.09	0.85	(0.27, 1.98)	400	0.51
<b>TOTAL</b>	<b>2582</b>	<b>24</b>	<b>0.93</b>	<b>1.06</b>	<b>0.77</b>	<b>(0.50, 1.15)</b>	<b>2065</b>	<b>0.68</b>
<b>Unity Hospital of Rochester</b>								
#Chockalingam S	13	0	0.00	1.18	0.00	(0.00,21.06)	2	0.00
##Doling M	14	0	0.00	0.37	0.00	(0.00,62.15)	12	0.00
#Ling F	25	1	4.00	0.38	9.37	(0.12,52.16)	21	0.00
#Narins C	10	0	0.00	0.58	0.00	(0.00,55.84)	9	0.00
#Ong L S	2	0	0.00	0.82	0.00	(0.00,100.0)	1	0.00
##Patel T	297	4	1.35	2.07	0.57	(0.15, 1.47)	146	0.00
#Stuver T	3	0	0.00	4.93	0.00	(0.00,21.81)	.	.
<b>TOTAL</b>	<b>364</b>	<b>5</b>	<b>1.37</b>	<b>1.83</b>	<b>0.66</b>	<b>(0.21, 1.54)</b>	<b>191</b>	<b>0.00</b>
<b>University Hospital - Brooklyn</b>								
#Afflu E	139	0	0.00	0.45	0.00	(0.00, 5.15)	137	0.00
#Badero O	47	0	0.00	0.67	0.00	(0.00,10.24)	46	0.00
Cavusoglu E	695	8	1.15	0.77	1.31	(0.56, 2.58)	650	1.04
#Chadow H	342	8	2.34	0.87	2.37 *	(1.02, 4.67)	329	1.62 *
Feit A	581	3	0.52	0.67	0.68	(0.14, 1.98)	554	0.19
Jasty B	327	2	0.61	0.57	0.94	(0.11, 3.41)	324	0.87
##Jayasundera T	25	0	0.00	0.61	0.00	(0.00,21.31)	20	0.00
Marmur J	784	12	1.53	1.01	1.33	(0.69, 2.33)	742	0.85
##Palta S	50	0	0.00	0.81	0.00	(0.00, 7.96)	44	0.00
All Others	268	4	1.49	0.74	1.77	(0.48, 4.54)	250	1.67
<b>TOTAL</b>	<b>3258</b>	<b>37</b>	<b>1.14</b>	<b>0.78</b>	<b>1.28 *</b>	<b>(0.90, 1.76)</b>	<b>3096</b>	<b>0.91</b>

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>University Hospital - SUNY Upstate</b>								
#Battaglia J	20	1	5.00	0.95	4.62	(0.06,25.71)	16	3.66
Kozman H	529	10	1.89	1.72	0.97	(0.46, 1.78)	349	0.40
Siddiqui D	261	5	1.92	0.97	1.73	(0.56, 4.05)	184	0.46
<b>TOTAL</b>	<b>810</b>	<b>16</b>	<b>1.98</b>	<b>1.46</b>	<b>1.19</b>	<b>(0.68, 1.94)</b>	<b>549</b>	<b>0.54</b>
<b>University Hospital - Stony Brook</b>								
##Balchandani R	230	0	0.00	0.81	0.00	(0.00, 1.73)	198	0.00
Brown D	45	1	2.22	1.57	1.25	(0.02, 6.94)	22	0.00
Chernilas J	419	5	1.19	1.34	0.79	(0.25, 1.84)	281	0.74
##Dervan J	517	4	0.77	0.72	0.95	(0.26, 2.43)	475	0.80
##Grella R	499	2	0.40	0.69	0.51	(0.06, 1.85)	459	0.44
Gruberg L	235	4	1.70	1.66	0.90	(0.24, 2.31)	155	0.39
Korlipara G	413	2	0.48	0.68	0.62	(0.07, 2.26)	392	0.00
Lawson W	662	7	1.06	1.03	0.90	(0.36, 1.86)	487	1.25
##Lederman S	199	2	1.01	0.75	1.18	(0.13, 4.27)	178	0.99
#Mani A	411	4	0.97	1.57	0.55	(0.15, 1.40)	287	0.55
##Rosenband M	588	3	0.51	0.97	0.47	(0.09, 1.36)	570	0.43
Stys A	351	5	1.42	1.44	0.87	(0.28, 2.03)	245	0.48
All Others	537	8	1.49	1.08	1.21	(0.52, 2.39)	433	0.50
<b>TOTAL</b>	<b>5106</b>	<b>47</b>	<b>0.92</b>	<b>1.04</b>	<b>0.78</b>	<b>(0.57, 1.03)</b>	<b>4182</b>	<b>0.56</b>
<b>Vassar Brothers Medical Center</b>								
Gorwara S	481	5	1.04	1.11	0.83	(0.27, 1.93)	351	0.25
Jafar M	854	8	0.94	0.87	0.95	(0.41, 1.88)	716	0.51
Kantaros L	419	0	0.00	0.77	0.00	(0.00, 1.00)	325	0.00
Yen M	359	3	0.84	0.85	0.87	(0.17, 2.54)	273	0.41
All Others	116	0	0.00	1.19	0.00	(0.00, 2.33)	105	0.00
<b>TOTAL</b>	<b>2229</b>	<b>16</b>	<b>0.72</b>	<b>0.91</b>	<b>0.69</b>	<b>(0.39, 1.12)</b>	<b>1770</b>	<b>0.32</b>
<b>Westchester Medical Center</b>								
#Charney R	37	0	0.00	0.47	0.00	(0.00,18.73)	37	0.00
Cohen M B	292	1	0.34	0.82	0.37	(0.00, 2.06)	240	0.00
Hjemdahl-Monsen C	1282	5	0.39	1.10	0.31 **	(0.10, 0.73)	1101	0.17 **
Kalapatapu K	1619	18	1.11	0.93	1.05	(0.62, 1.66)	1381	0.97
#Messinger D	28	0	0.00	0.37	0.00	(0.00,30.83)	28	0.00
Pucillo A	707	6	0.85	0.84	0.89	(0.33, 1.94)	613	0.19
Sorbera C	266	3	1.13	1.14	0.87	(0.17, 2.54)	210	0.49
All Others	357	7	1.96	1.14	1.52	(0.61, 3.12)	296	1.47
<b>TOTAL</b>	<b>4588</b>	<b>40</b>	<b>0.87</b>	<b>0.98</b>	<b>0.79</b>	<b>(0.56, 1.07)</b>	<b>3906</b>	<b>0.56</b>
<b>Winthrop University Hospital</b>								
##Angelopoulos P	143	2	1.40	0.94	1.31	(0.15, 4.71)	104	1.05
##Blumenthal S	94	1	1.06	1.06	0.89	(0.01, 4.93)	83	0.86
##Caselnova R	301	1	0.33	0.73	0.40	(0.01, 2.24)	285	0.35
##Deutsch E	10	0	0.00	0.31	0.00	(0.00,100.0)	10	0.00
##Gambino A	477	3	0.63	0.93	0.59	(0.12, 1.73)	426	0.39
##Hormozi S	4	0	0.00	0.18	0.00	(0.00,100.0)	4	0.00
##Lederman S	19	0	0.00	0.51	0.00	(0.00,33.50)	18	0.00
##Lee P J	5	0	0.00	0.74	0.00	(0.00,87.57)	5	0.00
Marzo K	486	1	0.21	0.55	0.33	(0.00, 1.83)	426	0.40



Table 3 *continued*

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Winthrop University Hospital, <i>continued</i></b>								
#Naidu S	166	2	1.20	1.00	1.06	(0.12, 3.83)	126	1.27
##Park J	236	0	0.00	0.50	0.00	(0.00, 2.75)	218	0.00
##Patel R B	6	0	0.00	0.36	0.00	(0.00,100.0)	4	0.00
#Sassower M	536	4	0.75	0.77	0.85	(0.23, 2.18)	484	0.42
##Schwartz R	836	5	0.60	0.86	0.61	(0.20, 1.42)	780	0.36
#Witkes D	200	2	1.00	0.76	1.16	(0.13, 4.18)	181	1.39
All Others	212	2	0.94	1.07	0.78	(0.09, 2.81)	166	0.45
<b>TOTAL</b>	<b>3731</b>	<b>23</b>	<b>0.62</b>	<b>0.80</b>	<b>0.68</b>	<b>(0.43, 1.02)</b>	<b>3320</b>	<b>0.49</b>
<b>Statewide Total</b>	<b>165953</b>	<b>1461</b>	<b>0.88</b>				<b>146798</b>	<b>0.62</b>

- \* RAMR significantly higher than statewide rate based on 95 percent confidence interval.
- \*\* RAMR significantly lower than statewide rate based on 95 percent confidence interval.
- # Performed procedures in another NYS hospital.
- ## Performed procedures in two or more other NYS hospitals.

**Table 4** Summary Information for Cardiologists Practicing at More Than One Hospital, 2005-2007 Discharges.

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Acuna D</b>	<b>84</b>	<b>2</b>	<b>2.38</b>	<b>0.90</b>	<b>2.34</b>	<b>(0.26, 8.45)</b>	<b>71</b>	<b>1.69</b>
SVMC- St. Vincents	79	2	2.53	0.91	2.44	(0.27, 8.80)	66	1.87
Staten Island Univ Hosp	5	0	0.00	0.61	0.00	(0.00,100.0)	5	0.00
<b>Afflu E</b>	<b>172</b>	<b>0</b>	<b>0.00</b>	<b>0.41</b>	<b>0.00</b>	<b>(0.00, 4.60)</b>	<b>170</b>	<b>0.00</b>
NY Methodist Hospital	33	0	0.00	0.23	0.00	(0.00,42.93)	33	0.00
Univ.Hosp-Brooklyn	139	0	0.00	0.45	0.00	(0.00, 5.15)	137	0.00
<b>Amin N</b>	<b>449</b>	<b>1</b>	<b>0.22</b>	<b>0.86</b>	<b>0.23</b>	<b>(0.00, 1.27)</b>	<b>366</b>	<b>0.00</b>
Arnot Ogden Med Ctr	103	0	0.00	0.78	0.00	(0.00, 4.02)	78	0.00
Crouse Hospital	195	0	0.00	0.75	0.00	(0.00, 2.21)	168	0.00
St. Josephs Hospital	151	1	0.66	1.06	0.55	(0.01, 3.06)	120	0.00
<b>Angelopoulos P</b>	<b>156</b>	<b>2</b>	<b>1.28</b>	<b>0.91</b>	<b>1.24</b>	<b>(0.14, 4.49)</b>	<b>117</b>	<b>0.94</b>
NYU Hospitals Center	3	0	0.00	0.80	0.00	(0.00,100.0)	3	0.00
North Shore Univ Hosp	10	0	0.00	0.43	0.00	(0.00,74.55)	10	0.00
Winthrop Univ. Hosp	143	2	1.40	0.94	1.31	(0.15, 4.71)	104	1.05
<b>Attubato M</b>	<b>948</b>	<b>6</b>	<b>0.63</b>	<b>0.91</b>	<b>0.61</b>	<b>(0.22, 1.33)</b>	<b>876</b>	<b>0.39</b>
Bellevue Hospital Ctr	230	2	0.87	0.98	0.78	(0.09, 2.81)	215	0.39
NYU Hospitals Center	718	4	0.56	0.89	0.55	(0.15, 1.41)	661	0.39
<b>Babaev A</b>	<b>451</b>	<b>3</b>	<b>0.67</b>	<b>0.57</b>	<b>1.02</b>	<b>(0.21, 2.98)</b>	<b>436</b>	<b>0.31</b>
Bellevue Hospital Ctr	10	1	10.00	1.19	7.40	(0.10,41.16)	3	0.00
NYU Hospitals Center	441	2	0.45	0.56	0.71	(0.08, 2.57)	433	0.31
<b>Badero O</b>	<b>171</b>	<b>0</b>	<b>0.00</b>	<b>0.41</b>	<b>0.00</b>	<b>(0.00, 4.63)</b>	<b>170</b>	<b>0.00</b>
NY Methodist Hospital	124	0	0.00	0.31	0.00	(0.00, 8.45)	124	0.00
Univ.Hosp-Brooklyn	47	0	0.00	0.67	0.00	(0.00,10.24)	46	0.00
<b>Bagga R</b>	<b>322</b>	<b>0</b>	<b>0.00</b>	<b>0.55</b>	<b>0.00</b>	<b>(0.00, 1.83)</b>	<b>296</b>	<b>0.00</b>
Huntington Hospital	20	0	0.00	1.71	0.00	(0.00, 9.43)	.	.
Long Island Jewish	130	0	0.00	0.46	0.00	(0.00, 5.44)	128	0.00
North Shore Univ Hosp	172	0	0.00	0.48	0.00	(0.00, 3.90)	168	0.00
<b>Balchandani R</b>	<b>238</b>	<b>0</b>	<b>0.00</b>	<b>0.81</b>	<b>0.00</b>	<b>(0.00, 1.68)</b>	<b>203</b>	<b>0.00</b>
North Shore Univ Hosp	5	0	0.00	0.55	0.00	(0.00,100.0)	5	0.00
St. Catherine of Siena	3	0	0.00	1.03	0.00	(0.00,100.0)	.	.
Univ.Hosp-Stony Brook	230	0	0.00	0.81	0.00	(0.00, 1.73)	198	0.00
<b>Battaglia J</b>	<b>898</b>	<b>15</b>	<b>1.67</b>	<b>0.64</b>	<b>2.29 *</b>	<b>(1.28, 3.77)</b>	<b>814</b>	<b>2.05 *</b>
Crouse Hospital	878	14	1.59	0.64	2.21 *	(1.21, 3.70)	798	1.97 *
Univ.Hosp-SUNY Upstate	20	1	5.00	0.95	4.62	(0.06,25.71)	16	3.66
<b>Berke A</b>	<b>469</b>	<b>7</b>	<b>1.49</b>	<b>1.43</b>	<b>0.92</b>	<b>(0.37, 1.90)</b>	<b>418</b>	<b>0.54</b>
South Nassau Comm.Hosp	4	1	25.00	4.32	5.09	(0.07,28.33)	.	.
St. Francis Hospital	465	6	1.29	1.40	0.81	(0.30, 1.76)	418	0.54
<b>Bhambhani G</b>	<b>1526</b>	<b>6</b>	<b>0.39</b>	<b>0.26</b>	<b>1.31</b>	<b>(0.48, 2.85)</b>	<b>1526</b>	<b>0.96</b>
Beth Israel Med Ctr	584	1	0.17	0.25	0.61	(0.01, 3.41)	584	0.46
SVMC- St. Vincents	942	5	0.53	0.28	1.69	(0.54, 3.94)	942	1.23

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Bhan R</b>	<b>542</b>	<b>4</b>	<b>0.74</b>	<b>0.73</b>	<b>0.89</b>	<b>(0.24, 2.27)</b>	<b>499</b>	<b>0.65</b>
Crouse Hospital	8	0	0.00	0.15	0.00	(0.00,100.0)	8	0.00
St. Josephs Hospital	534	4	0.75	0.74	0.89	(0.24, 2.28)	491	0.65
<b>Bishop G</b>	<b>371</b>	<b>7</b>	<b>1.89</b>	<b>0.92</b>	<b>1.81</b>	<b>(0.72, 3.72)</b>	<b>266</b>	<b>1.52</b>
Albany Medical Center	6	0	0.00	0.64	0.00	(0.00,84.07)	5	0.00
St. Peters Hospital	365	7	1.92	0.92	1.83	(0.73, 3.76)	261	1.55
<b>Blumenthal S</b>	<b>111</b>	<b>1</b>	<b>0.90</b>	<b>0.99</b>	<b>0.80</b>	<b>(0.01, 4.45)</b>	<b>99</b>	<b>0.76</b>
Long Island Jewish	2	0	0.00	0.99	0.00	(0.00,100.0)	2	0.00
North Shore Univ Hosp	14	0	0.00	0.59	0.00	(0.00,38.79)	14	0.00
South Nassau Comm.Hosp	1	0	0.00	0.43	0.00	(0.00,100.0)	.	.
Winthrop Univ. Hosp	94	1	1.06	1.06	0.89	(0.01, 4.93)	83	0.86
<b>Brady S</b>	<b>626</b>	<b>4</b>	<b>0.64</b>	<b>0.77</b>	<b>0.73</b>	<b>(0.20, 1.87)</b>	<b>519</b>	<b>0.52</b>
Albany Medical Center	541	4	0.74	0.77	0.85	(0.23, 2.18)	451	0.59
Glens Falls Hospital	2	0	0.00	1.45	0.00	(0.00,100.0)	.	.
St. Peters Hospital	83	0	0.00	0.78	0.00	(0.00, 5.01)	68	0.00
<b>Calandra S</b>	<b>600</b>	<b>1</b>	<b>0.17</b>	<b>0.96</b>	<b>0.15 **</b>	<b>(0.00, 0.85)</b>	<b>501</b>	<b>0.19</b>
Mercy Hospital	436	1	0.23	1.11	0.18	(0.00, 1.01)	340	0.25
Millard Fillmore Hosp	164	0	0.00	0.56	0.00	(0.00, 3.51)	161	0.00
<b>Caputo R</b>	<b>1166</b>	<b>20</b>	<b>1.72</b>	<b>1.18</b>	<b>1.28</b>	<b>(0.78, 1.97)</b>	<b>1022</b>	<b>0.89</b>
Crouse Hospital	12	1	8.33	1.26	5.81	(0.08,32.34)	9	0.00
St. Josephs Hospital	1154	19	1.65	1.18	1.23	(0.74, 1.92)	1013	0.90
<b>Caselnova R</b>	<b>1101</b>	<b>8</b>	<b>0.73</b>	<b>0.78</b>	<b>0.81</b>	<b>(0.35, 1.61)</b>	<b>958</b>	<b>0.76</b>
Good Sam - West Islip	50	1	2.00	2.00	0.88	(0.01, 4.90)	.	.
Huntington Hospital	9	0	0.00	1.53	0.00	(0.00,23.51)	.	.
North Shore Univ Hosp	707	6	0.85	0.69	1.09	(0.40, 2.36)	671	0.95
Southside Hospital	34	0	0.00	1.35	0.00	(0.00, 7.06)	2	0.00
Winthrop Univ. Hosp	301	1	0.33	0.73	0.40	(0.01, 2.24)	285	0.35
<b>Chadow H</b>	<b>349</b>	<b>10</b>	<b>2.87</b>	<b>1.07</b>	<b>2.35 *</b>	<b>(1.13, 4.33)</b>	<b>329</b>	<b>1.62 *</b>
Brookdale Hosp Med Ctr	7	2	28.57	11.03	2.28	(0.26, 8.24)	.	.
Univ.Hosp-Brooklyn	342	8	2.34	0.87	2.37 *	(1.02, 4.67)	329	1.62 *
<b>Chang J</b>	<b>990</b>	<b>6</b>	<b>0.61</b>	<b>0.95</b>	<b>0.56</b>	<b>(0.21, 1.23)</b>	<b>887</b>	<b>0.21</b>
NY Hospital - Queens	988	6	0.61	0.95	0.56	(0.21, 1.23)	886	0.21
North Shore Univ Hosp	2	0	0.00	0.27	0.00	(0.00,100.0)	1	0.00
<b>Charney R</b>	<b>325</b>	<b>3</b>	<b>0.92</b>	<b>1.14</b>	<b>0.71</b>	<b>(0.14, 2.08)</b>	<b>316</b>	<b>0.51</b>
NYP- Weill Cornell	288	3	1.04	1.23	0.75	(0.15, 2.18)	279	0.55
Westchester Med Ctr	37	0	0.00	0.47	0.00	(0.00,18.73)	37	0.00
<b>Chockalingam S</b>	<b>460</b>	<b>6</b>	<b>1.30</b>	<b>0.99</b>	<b>1.16</b>	<b>(0.42, 2.52)</b>	<b>389</b>	<b>0.65</b>
Rochester General Hosp	447	6	1.34	0.99	1.20	(0.44, 2.61)	387	0.65
Unity Hospital	13	0	0.00	1.18	0.00	(0.00,21.06)	2	0.00

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Clark V</b>	<b>366</b>	<b>9</b>	<b>2.46</b>	<b>0.87</b>	<b>2.49 *</b>	<b>(1.14, 4.73)</b>	<b>298</b>	<b>2.54 *</b>
Arnot Ogden Med Ctr	5	0	0.00	0.33	0.00	(0.00,100.0)	4	0.00
M I Bassett Hospital	361	9	2.49	0.88	2.50 *	(1.14, 4.75)	294	2.57 *
<b>Corbelli J</b>	<b>660</b>	<b>9</b>	<b>1.36</b>	<b>0.98</b>	<b>1.23</b>	<b>(0.56, 2.33)</b>	<b>597</b>	<b>0.97</b>
Buffalo General Hosp	9	0	0.00	1.38	0.00	(0.00,25.91)	.	.
Millard Fillmore Hosp	651	9	1.38	0.97	1.25	(0.57, 2.38)	597	0.97
<b>Coven D</b>	<b>234</b>	<b>2</b>	<b>0.85</b>	<b>0.68</b>	<b>1.11</b>	<b>(0.12, 4.01)</b>	<b>205</b>	<b>1.31</b>
Good Sam - West Islip	4	0	0.00	2.83	0.00	(0.00,28.50)	.	.
North Shore Univ Hosp	73	1	1.37	0.30	3.98	(0.05,22.17)	72	2.69
Southside Hospital	2	0	0.00	1.79	0.00	(0.00,90.20)	.	.
St. Francis Hospital	45	1	2.22	0.39	5.03	(0.07,28.00)	44	4.23
St. Lukes at St. Lukes	110	0	0.00	0.94	0.00	(0.00, 3.11)	89	0.00
<b>Delago A</b>	<b>1381</b>	<b>9</b>	<b>0.65</b>	<b>0.64</b>	<b>0.90</b>	<b>(0.41, 1.70)</b>	<b>1227</b>	<b>0.79</b>
Albany Medical Center	1350	8	0.59	0.61	0.85	(0.37, 1.68)	1221	0.80
Glens Falls Hospital	11	1	9.09	3.14	2.55	(0.03,14.18)	.	.
St. Peters Hospital	20	0	0.00	1.18	0.00	(0.00,13.66)	6	0.00
<b>Dempsey S</b>	<b>106</b>	<b>0</b>	<b>0.00</b>	<b>0.48</b>	<b>0.00</b>	<b>(0.00, 6.33)</b>	<b>99</b>	<b>0.00</b>
Ellis Hospital	103	0	0.00	0.48	0.00	(0.00, 6.50)	97	0.00
St. Peters Hospital	3	0	0.00	0.43	0.00	(0.00,100.0)	2	0.00
<b>Dervan J</b>	<b>522</b>	<b>4</b>	<b>0.77</b>	<b>0.73</b>	<b>0.93</b>	<b>(0.25, 2.38)</b>	<b>478</b>	<b>0.80</b>
North Shore Univ Hosp	3	0	0.00	0.17	0.00	(0.00,100.0)	3	0.00
St. Catherine of Siena	2	0	0.00	3.66	0.00	(0.00,44.17)	.	.
Univ.Hosp-Stony Brook	517	4	0.77	0.72	0.95	(0.26, 2.43)	475	0.80
<b>Desantis J</b>	<b>192</b>	<b>2</b>	<b>1.04</b>	<b>0.78</b>	<b>1.18</b>	<b>(0.13, 4.27)</b>	<b>133</b>	<b>1.19</b>
Glens Falls Hospital	17	1	5.88	2.90	1.79	(0.02, 9.94)	.	.
St. Peters Hospital	175	1	0.57	0.57	0.88	(0.01, 4.92)	133	1.19
<b>Deutsch E</b>	<b>701</b>	<b>7</b>	<b>1.00</b>	<b>0.62</b>	<b>1.41</b>	<b>(0.57, 2.91)</b>	<b>635</b>	<b>1.06</b>
Good Sam - West Islip	27	1	3.70	1.94	1.68	(0.02, 9.33)	.	.
North Shore Univ Hosp	487	3	0.62	0.54	1.01	(0.20, 2.96)	482	0.77
Southside Hospital	120	2	1.67	0.60	2.46	(0.28, 8.87)	102	2.06
St. Catherine of Siena	15	0	0.00	1.01	0.00	(0.00,21.40)	.	.
St. Francis Hospital	42	1	2.38	0.79	2.66	(0.03,14.80)	41	3.43
Winthrop Univ. Hosp	10	0	0.00	0.31	0.00	(0.00,100.0)	10	0.00
<b>Doling M</b>	<b>856</b>	<b>7</b>	<b>0.82</b>	<b>0.74</b>	<b>0.97</b>	<b>(0.39, 2.00)</b>	<b>742</b>	<b>0.46</b>
Rochester General Hosp	7	0	0.00	0.34	0.00	(0.00,100.0)	7	0.00
Strong Memorial Hosp	835	7	0.84	0.75	0.98	(0.39, 2.02)	723	0.47
Unity Hospital	14	0	0.00	0.37	0.00	(0.00,62.15)	12	0.00
<b>Dominguez A</b>	<b>628</b>	<b>6</b>	<b>0.96</b>	<b>0.86</b>	<b>0.97</b>	<b>(0.36, 2.12)</b>	<b>625</b>	<b>0.73</b>
Lenox Hill Hospital	506	5	0.99	0.93	0.93	(0.30, 2.17)	503	0.71
NY Methodist Hospital	19	0	0.00	0.40	0.00	(0.00,42.42)	19	0.00
SVMC- St. Vincents	103	1	0.97	0.61	1.40	(0.02, 7.81)	103	1.01

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>El-Khally Z</b>	<b>198</b>	<b>4</b>	<b>2.02</b>	<b>0.78</b>	<b>2.28</b>	<b>(0.61, 5.83)</b>	<b>172</b>	<b>1.47</b>
Crouse Hospital	170	3	1.76	0.75	2.07	(0.42, 6.06)	144	1.08
St. Josephs Hospital	28	1	3.57	0.98	3.22	(0.04,17.92)	28	2.32
<b>Emerson R</b>	<b>323</b>	<b>4</b>	<b>1.24</b>	<b>1.49</b>	<b>0.73</b>	<b>(0.20, 1.87)</b>	<b>204</b>	<b>0.00</b>
Erie County Med Ctr	47	1	2.13	2.94	0.64	(0.01, 3.55)	26	0.00
Mercy Hospital	274	3	1.09	1.26	0.77	(0.15, 2.24)	176	0.00
Millard Fillmore Hosp	2	0	0.00	0.12	0.00	(0.00,100.0)	2	0.00
<b>Esper D</b>	<b>489</b>	<b>4</b>	<b>0.82</b>	<b>0.85</b>	<b>0.85</b>	<b>(0.23, 2.18)</b>	<b>403</b>	<b>0.61</b>
Albany Medical Center	204	3	1.47	1.08	1.20	(0.24, 3.50)	156	0.92
Glens Falls Hospital	8	0	0.00	1.04	0.00	(0.00,38.72)	.	.
St. Peters Hospital	277	1	0.36	0.67	0.48	(0.01, 2.65)	247	0.45
<b>Farhi E</b>	<b>975</b>	<b>10</b>	<b>1.03</b>	<b>1.00</b>	<b>0.90</b>	<b>(0.43, 1.66)</b>	<b>883</b>	<b>0.48</b>
Buffalo General Hosp	973	10	1.03	0.99	0.91	(0.44, 1.68)	883	0.48
Millard Fillmore Hosp	2	0	0.00	4.36	0.00	(0.00,37.02)	.	.
<b>Farid A</b>	<b>376</b>	<b>0</b>	<b>0.00</b>	<b>0.29</b>	<b>0.00</b>	<b>(0.00, 2.98)</b>	<b>366</b>	<b>0.00</b>
SVMCMC- St. Vincents	7	0	0.00	0.29	0.00	(0.00,100.0)	7	0.00
Staten Island Univ Hosp	369	0	0.00	0.29	0.00	(0.00, 3.04)	359	0.00
<b>Feit F</b>	<b>971</b>	<b>1</b>	<b>0.10</b>	<b>0.59</b>	<b>0.15 **</b>	<b>(0.00, 0.86)</b>	<b>920</b>	<b>0.13</b>
Bellevue Hospital Ctr	249	0	0.00	0.62	0.00	(0.00, 2.08)	235	0.00
NYU Hospitals Center	722	1	0.14	0.58	0.21	(0.00, 1.17)	685	0.17
<b>Ford T</b>	<b>356</b>	<b>3</b>	<b>0.84</b>	<b>0.88</b>	<b>0.84</b>	<b>(0.17, 2.45)</b>	<b>298</b>	<b>0.48</b>
Crouse Hospital	191	1	0.52	0.70	0.66	(0.01, 3.68)	161	0.00
St. Josephs Hospital	165	2	1.21	1.10	0.97	(0.11, 3.50)	137	0.87
<b>Freeman J</b>	<b>936</b>	<b>7</b>	<b>0.75</b>	<b>1.09</b>	<b>0.60</b>	<b>(0.24, 1.24)</b>	<b>739</b>	<b>0.94</b>
Huntington Hospital	1	0	0.00	1.37	0.00	(0.00,100.0)	.	.
Long Island Jewish	19	0	0.00	2.31	0.00	(0.00, 7.35)	5	0.00
North Shore Univ Hosp	677	6	0.89	0.92	0.85	(0.31, 1.84)	578	1.06
South Nassau Comm.Hosp	239	1	0.42	1.48	0.25	(0.00, 1.39)	156	0.63
<b>Friedman G H</b>	<b>612</b>	<b>10</b>	<b>1.63</b>	<b>0.97</b>	<b>1.48</b>	<b>(0.71, 2.71)</b>	<b>563</b>	<b>1.06</b>
Long Island Jewish	371	4	1.08	0.95	1.00	(0.27, 2.57)	339	0.79
NY Hospital - Queens	17	0	0.00	0.77	0.00	(0.00,24.75)	15	0.00
North Shore Univ Hosp	119	4	3.36	0.65	4.53 *	(1.22,11.61)	110	3.04
St. Francis Hospital	105	2	1.90	1.47	1.14	(0.13, 4.11)	99	0.60
<b>Gadhvi P</b>	<b>82</b>	<b>0</b>	<b>0.00</b>	<b>0.73</b>	<b>0.00</b>	<b>(0.00, 5.43)</b>	<b>76</b>	<b>0.00</b>
Jamaica Hosp Med Ctr	2	0	0.00	0.71	0.00	(0.00,100.0)	.	.
Lenox Hill Hospital	80	0	0.00	0.73	0.00	(0.00, 5.56)	76	0.00

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Gambino A</b>	<b>594</b>	<b>5</b>	<b>0.84</b>	<b>0.84</b>	<b>0.88</b>	<b>(0.28, 2.06)</b>	<b>541</b>	<b>0.68</b>
Huntington Hospital	2	0	0.00	1.08	0.00	(0.00,100.0)	.	.
North Shore Univ Hosp	90	1	1.11	0.37	2.68	(0.03,14.89)	90	1.89
St. Francis Hospital	25	1	4.00	0.71	4.94	(0.06,27.49)	25	3.72
Winthrop Univ. Hosp	477	3	0.63	0.93	0.59	(0.12, 1.73)	426	0.39
<b>Garratt K</b>	<b>791</b>	<b>7</b>	<b>0.88</b>	<b>0.75</b>	<b>1.03</b>	<b>(0.41, 2.13)</b>	<b>728</b>	<b>0.85</b>
Jamaica Hosp Med Ctr	1	0	0.00	13.44	0.00	(0.00,24.02)	.	.
Lenox Hill Hospital	790	7	0.89	0.74	1.06	(0.42, 2.18)	728	0.85
<b>Geizhals M</b>	<b>393</b>	<b>2</b>	<b>0.51</b>	<b>0.62</b>	<b>0.72</b>	<b>(0.08, 2.61)</b>	<b>387</b>	<b>0.58</b>
Lenox Hill Hospital	23	0	0.00	0.60	0.00	(0.00,23.34)	23	0.00
NY Hospital - Queens	279	1	0.36	0.58	0.54	(0.01, 3.00)	276	0.43
NYP- Weill Cornell	91	1	1.10	0.73	1.33	(0.02, 7.38)	88	1.09
<b>Gelormini J</b>	<b>521</b>	<b>6</b>	<b>1.15</b>	<b>1.06</b>	<b>0.95</b>	<b>(0.35, 2.08)</b>	<b>422</b>	<b>0.42</b>
Mercy Hospital	344	6	1.74	1.19	1.29	(0.47, 2.80)	255	0.64
Millard Fillmore Hosp	177	0	0.00	0.81	0.00	(0.00, 2.26)	167	0.00
<b>Giambartolomei A</b>	<b>547</b>	<b>8</b>	<b>1.46</b>	<b>1.19</b>	<b>1.08</b>	<b>(0.47, 2.13)</b>	<b>451</b>	<b>0.72</b>
Champ.Valley Phys Hosp	1	0	0.00	8.34	0.00	(0.00,38.71)	1	0.00
Crouse Hospital	5	0	0.00	0.36	0.00	(0.00,100.0)	3	0.00
St. Josephs Hospital	541	8	1.48	1.18	1.10	(0.47, 2.17)	447	0.74
<b>Goldman A Y</b>	<b>358</b>	<b>5</b>	<b>1.40</b>	<b>0.70</b>	<b>1.76</b>	<b>(0.57, 4.12)</b>	<b>341</b>	<b>0.31</b>
Montefiore - Moses	349	5	1.43	0.70	1.79	(0.58, 4.18)	332	0.32
St. Lukes at St. Lukes	9	0	0.00	0.41	0.00	(0.00,88.27)	9	0.00
<b>Gowda R</b>	<b>729</b>	<b>10</b>	<b>1.37</b>	<b>1.17</b>	<b>1.04</b>	<b>(0.50, 1.91)</b>	<b>675</b>	<b>0.73</b>
Beth Israel Med Ctr	724	9	1.24	1.15	0.95	(0.44, 1.81)	675	0.73
Long Island Coll. Hosp	5	1	20.00	3.80	4.63	(0.06,25.77)	.	.
<b>Green S</b>	<b>708</b>	<b>5</b>	<b>0.71</b>	<b>1.17</b>	<b>0.53</b>	<b>(0.17, 1.24)</b>	<b>574</b>	<b>0.49</b>
Long Island Jewish	18	0	0.00	3.56	0.00	(0.00, 5.05)	1	0.00
North Shore Univ Hosp	690	5	0.72	1.10	0.58	(0.19, 1.35)	573	0.50
<b>Grella R</b>	<b>506</b>	<b>2</b>	<b>0.40</b>	<b>0.69</b>	<b>0.50</b>	<b>(0.06, 1.81)</b>	<b>464</b>	<b>0.44</b>
North Shore Univ Hosp	5	0	0.00	0.20	0.00	(0.00,100.0)	5	0.00
St. Catherine of Siena	2	0	0.00	2.92	0.00	(0.00,55.30)	.	.
Univ.Hosp-Stony Brook	499	2	0.40	0.69	0.51	(0.06, 1.85)	459	0.44
<b>Grose R</b>	<b>414</b>	<b>4</b>	<b>0.97</b>	<b>0.80</b>	<b>1.06</b>	<b>(0.29, 2.72)</b>	<b>390</b>	<b>0.25</b>
Montefiore - Moses	165	3	1.82	0.93	1.73	(0.35, 5.05)	144	0.00
NYP- Columbia Presby.	249	1	0.40	0.72	0.49	(0.01, 2.75)	246	0.35
<b>Grunwald A</b>	<b>637</b>	<b>7</b>	<b>1.10</b>	<b>0.95</b>	<b>1.02</b>	<b>(0.41, 2.11)</b>	<b>587</b>	<b>0.86</b>
Long Island Jewish	505	4	0.79	0.92	0.76	(0.20, 1.94)	469	0.54
NY Hospital - Queens	15	0	0.00	1.62	0.00	(0.00,13.27)	14	0.00
North Shore Univ Hosp	92	2	2.17	1.11	1.72	(0.19, 6.22)	81	1.87
St. Francis Hospital	25	1	4.00	0.44	8.09	(0.11,45.00)	23	6.10

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Halkin A</b>	<b>345</b>	<b>3</b>	<b>0.87</b>	<b>0.92</b>	<b>0.83</b>	<b>(0.17, 2.44)</b>	<b>312</b>	<b>0.54</b>
Jamaica Hosp Med Ctr	1	0	0.00	1.67	0.00	(0.00,100.0)	.	.
Lenox Hill Hospital	344	3	0.87	0.92	0.84	(0.17, 2.45)	312	0.54
<b>Haq N</b>	<b>434</b>	<b>3</b>	<b>0.69</b>	<b>0.85</b>	<b>0.71</b>	<b>(0.14, 2.09)</b>	<b>367</b>	<b>0.48</b>
Buffalo General Hosp	2	0	0.00	2.88	0.00	(0.00,56.07)	.	.
Mercy Hospital	313	2	0.64	0.96	0.58	(0.07, 2.11)	256	0.30
Millard Fillmore Hosp	119	1	0.84	0.52	1.41	(0.02, 7.84)	111	1.14
<b>Hogan R</b>	<b>711</b>	<b>8</b>	<b>1.13</b>	<b>0.75</b>	<b>1.33</b>	<b>(0.57, 2.61)</b>	<b>579</b>	<b>0.72</b>
Albany Medical Center	255	1	0.39	0.43	0.81	(0.01, 4.50)	251	0.57
Ellis Hospital	169	0	0.00	0.58	0.00	(0.00, 3.30)	166	0.00
Glens Falls Hospital	287	7	2.44	1.13	1.90	(0.76, 3.92)	162	2.48
<b>Hong M</b>	<b>482</b>	<b>7</b>	<b>1.45</b>	<b>1.43</b>	<b>0.90</b>	<b>(0.36, 1.85)</b>	<b>410</b>	<b>0.41</b>
NYP- Weill Cornell	223	3	1.35	2.04	0.58	(0.12, 1.70)	191	0.34
St. Lukes at St. Lukes	259	4	1.54	0.90	1.51	(0.41, 3.87)	219	0.53
<b>Hormozi S</b>	<b>462</b>	<b>2</b>	<b>0.43</b>	<b>0.89</b>	<b>0.43</b>	<b>(0.05, 1.55)</b>	<b>363</b>	<b>0.32</b>
Good Sam - West Islip	42	1	2.38	2.03	1.03	(0.01, 5.75)	.	.
Long Island Jewish	3	0	0.00	0.47	0.00	(0.00,100.0)	3	0.00
North Shore Univ Hosp	338	1	0.30	0.60	0.44	(0.01, 2.43)	334	0.34
Southside Hospital	57	0	0.00	1.22	0.00	(0.00, 4.63)	22	0.00
St. Catherine of Siena	18	0	0.00	2.78	0.00	(0.00, 6.45)	.	.
Winthrop Univ. Hosp	4	0	0.00	0.18	0.00	(0.00,100.0)	4	0.00
<b>Hoyek W</b>	<b>319</b>	<b>2</b>	<b>0.63</b>	<b>0.54</b>	<b>1.01</b>	<b>(0.11, 3.66)</b>	<b>315</b>	<b>0.79</b>
NY Methodist Hospital	268	2	0.75	0.52	1.27	(0.14, 4.58)	267	0.89
Staten Island Univ Hosp	51	0	0.00	0.69	0.00	(0.00, 9.22)	48	0.00
<b>Iskander A</b>	<b>613</b>	<b>11</b>	<b>1.79</b>	<b>1.39</b>	<b>1.14</b>	<b>(0.57, 2.04)</b>	<b>515</b>	<b>0.83</b>
Crouse Hospital	5	0	0.00	0.72	0.00	(0.00,90.03)	5	0.00
St. Josephs Hospital	608	11	1.81	1.39	1.14	(0.57, 2.05)	510	0.84
<b>Jain S</b>	<b>202</b>	<b>2</b>	<b>0.99</b>	<b>1.00</b>	<b>0.87</b>	<b>(0.10, 3.16)</b>	<b>165</b>	<b>1.01</b>
Jamaica Hosp Med Ctr	32	0	0.00	2.06	0.00	(0.00, 4.90)	.	.
Lenox Hill Hospital	170	2	1.18	0.80	1.30	(0.15, 4.70)	165	1.01
<b>Jauhar R</b>	<b>1234</b>	<b>9</b>	<b>0.73</b>	<b>0.93</b>	<b>0.69</b>	<b>(0.31, 1.31)</b>	<b>1035</b>	<b>0.57</b>
Huntington Hospital	2	0	0.00	1.23	0.00	(0.00,100.0)	.	.
Long Island Jewish	1202	9	0.75	0.91	0.72	(0.33, 1.37)	1033	0.57
North Shore Univ Hosp	30	0	0.00	1.78	0.00	(0.00, 6.05)	2	0.00
<b>Jayasundera T</b>	<b>996</b>	<b>2</b>	<b>0.20</b>	<b>0.50</b>	<b>0.36</b>	<b>(0.04, 1.28)</b>	<b>973</b>	<b>0.30</b>
Lenox Hill Hospital	345	0	0.00	0.46	0.00	(0.00, 2.03)	342	0.00
Mount Sinai Hospital	626	2	0.32	0.51	0.55	(0.06, 1.97)	611	0.47
Univ.Hosp-Brooklyn	25	0	0.00	0.61	0.00	(0.00,21.31)	20	0.00
<b>Johnson M</b>	<b>385</b>	<b>2</b>	<b>0.52</b>	<b>0.62</b>	<b>0.74</b>	<b>(0.08, 2.68)</b>	<b>373</b>	<b>0.56</b>
Montefiore - Moses	265	2	0.75	0.65	1.02	(0.11, 3.69)	255	0.79
NYP- Columbia Presby.	120	0	0.00	0.55	0.00	(0.00, 4.94)	118	0.00

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Kamran M</b>	<b>808</b>	<b>0</b>	<b>0.00</b>	<b>0.75</b>	<b>0.00 **</b>	<b>(0.00, 0.53)</b>	<b>656</b>	<b>0.00</b>
Elmhurst Hospital Ctr	365	0	0.00	0.94	0.00	(0.00, 0.94)	230	0.00
Mount Sinai Hospital	443	0	0.00	0.60	0.00	(0.00, 1.22)	426	0.00
<b>Kantrowitz N</b>	<b>541</b>	<b>5</b>	<b>0.92</b>	<b>0.93</b>	<b>0.88</b>	<b>(0.28, 2.05)</b>	<b>462</b>	<b>1.02</b>
Beth Israel Med Ctr	390	4	1.03	0.55	1.66	(0.45, 4.24)	388	1.24
Long Island Coll. Hosp	77	1	1.30	3.16	0.36	(0.00, 2.01)	.	.
Maimonides Medical Ctr	74	0	0.00	0.61	0.00	(0.00, 7.17)	74	0.00
<b>Kaplan B</b>	<b>1415</b>	<b>11</b>	<b>0.78</b>	<b>0.97</b>	<b>0.71</b>	<b>(0.35, 1.26)</b>	<b>1259</b>	<b>0.67</b>
Long Island Jewish	1374	11	0.80	0.95	0.75	(0.37, 1.33)	1257	0.67
North Shore Univ Hosp	41	0	0.00	1.74	0.00	(0.00, 4.53)	2	0.00
<b>Katz S</b>	<b>671</b>	<b>4</b>	<b>0.60</b>	<b>0.91</b>	<b>0.58</b>	<b>(0.16, 1.48)</b>	<b>571</b>	<b>0.56</b>
Long Island Jewish	23	0	0.00	1.69	0.00	(0.00, 8.29)	5	0.00
North Shore Univ Hosp	641	4	0.62	0.89	0.62	(0.17, 1.58)	559	0.57
Southside Hospital	7	0	0.00	0.22	0.00	(0.00,100.0)	7	0.00
<b>Kelberman M</b>	<b>568</b>	<b>6</b>	<b>1.06</b>	<b>0.86</b>	<b>1.09</b>	<b>(0.40, 2.37)</b>	<b>500</b>	<b>1.01</b>
Faxton - St. Lukes	3	0	0.00	3.16	0.00	(0.00,34.11)	.	.
St. Elizabeth Med Ctr	565	6	1.06	0.84	1.11	(0.40, 2.41)	500	1.01
<b>Keller N</b>	<b>126</b>	<b>0</b>	<b>0.00</b>	<b>0.85</b>	<b>0.00</b>	<b>(0.00, 3.03)</b>	<b>104</b>	<b>0.00</b>
Bellevue Hospital Ctr	119	0	0.00	0.81	0.00	(0.00, 3.37)	101	0.00
NYU Hospitals Center	7	0	0.00	1.55	0.00	(0.00,29.76)	3	0.00
<b>Kesanakurthy S</b>	<b>725</b>	<b>3</b>	<b>0.41</b>	<b>0.65</b>	<b>0.56</b>	<b>(0.11, 1.64)</b>	<b>719</b>	<b>0.43</b>
Lenox Hill Hospital	350	1	0.29	0.55	0.46	(0.01, 2.55)	346	0.36
NYP- Columbia Presby.	375	2	0.53	0.75	0.63	(0.07, 2.27)	373	0.48
<b>Kim M</b>	<b>1640</b>	<b>13</b>	<b>0.79</b>	<b>1.08</b>	<b>0.65</b>	<b>(0.34, 1.10)</b>	<b>1551</b>	<b>0.47</b>
Elmhurst Hospital Ctr	14	1	7.14	1.92	3.28	(0.04,18.26)	.	.
Mount Sinai Hospital	1626	12	0.74	1.07	0.61	(0.31, 1.06)	1551	0.47
<b>Koss J</b>	<b>585</b>	<b>5</b>	<b>0.85</b>	<b>0.85</b>	<b>0.89</b>	<b>(0.29, 2.07)</b>	<b>538</b>	<b>0.54</b>
Long Island Jewish	453	4	0.88	0.79	0.98	(0.26, 2.52)	423	0.69
NY Hospital - Queens	6	0	0.00	0.40	0.00	(0.00,100.0)	6	0.00
North Shore Univ Hosp	72	1	1.39	0.91	1.35	(0.02, 7.51)	63	0.00
St. Francis Hospital	54	0	0.00	1.31	0.00	(0.00, 4.56)	46	0.00
<b>Kovar L</b>	<b>174</b>	<b>1</b>	<b>0.57</b>	<b>1.55</b>	<b>0.33</b>	<b>(0.00, 1.82)</b>	<b>102</b>	<b>0.00</b>
Good Sam - Suffern	173	1	0.58	1.55	0.33	(0.00, 1.82)	101	0.00
NYP- Columbia Presby.	1	0	0.00	0.13	0.00	(0.00,100.0)	1	0.00
<b>Krishnan P</b>	<b>701</b>	<b>9</b>	<b>1.28</b>	<b>1.18</b>	<b>0.96</b>	<b>(0.44, 1.82)</b>	<b>620</b>	<b>0.94</b>
Elmhurst Hospital Ctr	33	0	0.00	2.80	0.00	(0.00, 3.49)	.	.
Mount Sinai Hospital	668	9	1.35	1.10	1.08	(0.49, 2.06)	620	0.94



Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Kufs W</b>	<b>137</b>	<b>0</b>	<b>0.00</b>	<b>0.62</b>	<b>0.00</b>	<b>(0.00, 3.79)</b>	<b>133</b>	<b>0.00</b>
Ellis Hospital	135	0	0.00	0.58	0.00	(0.00, 4.11)	131	0.00
St. Peters Hospital	2	0	0.00	3.37	0.00	(0.00,47.89)	2	0.00
<b>Kwan T</b>	<b>790</b>	<b>1</b>	<b>0.13</b>	<b>0.35</b>	<b>0.32</b>	<b>(0.00, 1.78)</b>	<b>782</b>	<b>0.23</b>
Beth Israel Med Ctr	445	1	0.22	0.33	0.60	(0.01, 3.36)	441	0.46
NYU Hospitals Center	4	0	0.00	0.38	0.00	(0.00,100.0)	4	0.00
SVCMC- St. Vincents	341	0	0.00	0.37	0.00	(0.00, 2.53)	337	0.00
<b>Laifer L</b>	<b>373</b>	<b>2</b>	<b>0.54</b>	<b>0.65</b>	<b>0.73</b>	<b>(0.08, 2.63)</b>	<b>293</b>	<b>0.57</b>
Arnot Ogden Med Ctr	371	2	0.54	0.65	0.73	(0.08, 2.65)	291	0.57
NYP- Columbia Presby.	2	0	0.00	0.67	0.00	(0.00,100.0)	2	0.00
<b>Lasic Z</b>	<b>638</b>	<b>4</b>	<b>0.63</b>	<b>0.93</b>	<b>0.59</b>	<b>(0.16, 1.52)</b>	<b>544</b>	<b>0.18</b>
Jamaica Hosp Med Ctr	51	1	1.96	2.13	0.81	(0.01, 4.51)	.	.
Lenox Hill Hospital	587	3	0.51	0.83	0.54	(0.11, 1.59)	544	0.18
<b>Lederman S</b>	<b>382</b>	<b>2</b>	<b>0.52</b>	<b>0.67</b>	<b>0.69</b>	<b>(0.08, 2.49)</b>	<b>355</b>	<b>0.59</b>
North Shore Univ Hosp	164	0	0.00	0.59	0.00	(0.00, 3.35)	159	0.00
Univ.Hosp-Stony Brook	199	2	1.01	0.75	1.18	(0.13, 4.27)	178	0.99
Winthrop Univ. Hosp	19	0	0.00	0.51	0.00	(0.00,33.50)	18	0.00
<b>Lee A</b>	<b>770</b>	<b>6</b>	<b>0.78</b>	<b>1.19</b>	<b>0.57</b>	<b>(0.21, 1.25)</b>	<b>608</b>	<b>0.36</b>
Long Island Jewish	19	0	0.00	2.91	0.00	(0.00, 5.84)	2	0.00
North Shore Univ Hosp	751	6	0.80	1.15	0.61	(0.22, 1.33)	606	0.36
<b>Lee J</b>	<b>269</b>	<b>1</b>	<b>0.37</b>	<b>0.41</b>	<b>0.80</b>	<b>(0.01, 4.43)</b>	<b>267</b>	<b>0.54</b>
Mount Sinai Hospital	267	1	0.37	0.41	0.80	(0.01, 4.47)	265	0.55
SVCMC- St. Vincents	2	0	0.00	0.47	0.00	(0.00,100.0)	2	0.00
<b>Lee P C</b>	<b>150</b>	<b>2</b>	<b>1.33</b>	<b>0.44</b>	<b>2.68</b>	<b>(0.30, 9.67)</b>	<b>150</b>	<b>1.74</b>
Beth Israel Med Ctr	7	0	0.00	0.20	0.00	(0.00,100.0)	7	0.00
Maimonides Medical Ctr	2	0	0.00	0.25	0.00	(0.00,100.0)	2	0.00
Mount Sinai Hospital	141	2	1.42	0.45	2.76	(0.31, 9.96)	141	1.80
<b>Lee P J</b>	<b>856</b>	<b>4</b>	<b>0.47</b>	<b>0.66</b>	<b>0.62</b>	<b>(0.17, 1.59)</b>	<b>758</b>	<b>0.19</b>
Good Sam - West Islip	61	3	4.92	2.24	1.94	(0.39, 5.66)	.	.
Long Island Jewish	4	0	0.00	0.26	0.00	(0.00,100.0)	4	0.00
North Shore Univ Hosp	568	1	0.18	0.56	0.28	(0.00, 1.54)	560	0.23
Southside Hospital	148	0	0.00	0.60	0.00	(0.00, 3.66)	120	0.00
St. Francis Hospital	70	0	0.00	0.26	0.00	(0.00,17.44)	69	0.00
Winthrop Univ. Hosp	5	0	0.00	0.74	0.00	(0.00,87.57)	5	0.00
<b>Ling F</b>	<b>595</b>	<b>7</b>	<b>1.18</b>	<b>0.94</b>	<b>1.10</b>	<b>(0.44, 2.26)</b>	<b>452</b>	<b>0.68</b>
Strong Memorial Hosp	570	6	1.05	0.97	0.96	(0.35, 2.08)	431	0.69
Unity Hospital	25	1	4.00	0.38	9.37	(0.12,52.16)	21	0.00
<b>Lituchy A</b>	<b>585</b>	<b>5</b>	<b>0.85</b>	<b>0.94</b>	<b>0.80</b>	<b>(0.26, 1.88)</b>	<b>533</b>	<b>0.59</b>
South Nassau Comm.Hosp	22	1	4.55	1.60	2.50	(0.03,13.90)	7	0.00
St. Francis Hospital	563	4	0.71	0.91	0.69	(0.18, 1.76)	526	0.60

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>MacIsaac H</b>	<b>917</b>	<b>15</b>	<b>1.64</b>	<b>1.13</b>	<b>1.28</b>	<b>(0.71, 2.10)</b>	<b>793</b>	<b>1.02</b>
Faxton - St. Lukes	3	1	33.33	6.47	4.54	(0.06,25.25)	.	.
St. Elizabeth Med Ctr	914	14	1.53	1.11	1.21	(0.66, 2.03)	793	1.02
<b>Macina A</b>	<b>101</b>	<b>2</b>	<b>1.98</b>	<b>1.71</b>	<b>1.02</b>	<b>(0.11, 3.69)</b>	<b>43</b>	<b>0.00</b>
Albany Medical Center	97	1	1.03	1.64	0.55	(0.01, 3.07)	43	0.00
St. Peters Hospital	4	1	25.00	3.23	6.81	(0.09,37.88)	.	.
<b>Madrid A</b>	<b>266</b>	<b>2</b>	<b>0.75</b>	<b>0.80</b>	<b>0.83</b>	<b>(0.09, 2.98)</b>	<b>218</b>	<b>0.91</b>
St. Catherine of Siena	4	0	0.00	0.83	0.00	(0.00,97.22)	.	.
St. Francis Hospital	262	2	0.76	0.80	0.84	(0.09, 3.03)	218	0.91
<b>Mani A</b>	<b>498</b>	<b>6</b>	<b>1.20</b>	<b>1.58</b>	<b>0.67</b>	<b>(0.24, 1.46)</b>	<b>357</b>	<b>0.48</b>
Albany Medical Center	87	2	2.30	1.64	1.23	(0.14, 4.45)	70	0.00
Univ.Hosp-Stony Brook	411	4	0.97	1.57	0.55	(0.15, 1.40)	287	0.55
<b>Marchant D</b>	<b>474</b>	<b>3</b>	<b>0.63</b>	<b>1.06</b>	<b>0.53</b>	<b>(0.11, 1.53)</b>	<b>355</b>	<b>0.64</b>
Huntington Hospital	1	0	0.00	0.70	0.00	(0.00,100.0)	.	.
Long Island Jewish	28	0	0.00	2.57	0.00	(0.00, 4.49)	1	0.00
North Shore Univ Hosp	445	3	0.67	0.97	0.61	(0.12, 1.79)	354	0.64
<b>Marmulstein M</b>	<b>119</b>	<b>0</b>	<b>0.00</b>	<b>1.27</b>	<b>0.00</b>	<b>(0.00, 2.14)</b>	<b>65</b>	<b>0.00</b>
Albany Medical Center	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
St. Peters Hospital	118	0	0.00	1.28	0.00	(0.00, 2.14)	64	0.00
<b>Masud A</b>	<b>674</b>	<b>5</b>	<b>0.74</b>	<b>0.73</b>	<b>0.89</b>	<b>(0.29, 2.08)</b>	<b>628</b>	<b>0.36</b>
Buffalo General Hosp	266	1	0.38	0.53	0.63	(0.01, 3.48)	256	0.00
Millard Fillmore Hosp	408	4	0.98	0.86	1.00	(0.27, 2.56)	372	0.54
<b>Mathew T C</b>	<b>796</b>	<b>8</b>	<b>1.01</b>	<b>1.18</b>	<b>0.75</b>	<b>(0.32, 1.48)</b>	<b>699</b>	<b>0.76</b>
Faxton - St. Lukes	12	1	8.33	3.09	2.37	(0.03,13.21)	.	.
St. Elizabeth Med Ctr	784	7	0.89	1.15	0.68	(0.27, 1.41)	699	0.76
<b>Meltser H</b>	<b>253</b>	<b>5</b>	<b>1.98</b>	<b>1.94</b>	<b>0.90</b>	<b>(0.29, 2.09)</b>	<b>191</b>	<b>0.35</b>
Mercy Hospital	251	5	1.99	1.95	0.90	(0.29, 2.10)	189	0.35
Millard Fillmore Hosp	2	0	0.00	0.75	0.00	(0.00,100.0)	2	0.00
<b>Menzies D</b>	<b>331</b>	<b>4</b>	<b>1.21</b>	<b>0.92</b>	<b>1.16</b>	<b>(0.31, 2.97)</b>	<b>275</b>	<b>0.73</b>
Arnot Ogden Med Ctr	9	0	0.00	0.51	0.00	(0.00,70.14)	8	0.00
M I Bassett Hospital	322	4	1.24	0.93	1.18	(0.32, 3.02)	267	0.75
<b>Messinger D</b>	<b>221</b>	<b>1</b>	<b>0.45</b>	<b>0.94</b>	<b>0.42</b>	<b>(0.01, 2.36)</b>	<b>212</b>	<b>0.00</b>
NYP- Weill Cornell	193	1	0.52	1.02	0.45	(0.01, 2.49)	184	0.00
Westchester Med Ctr	28	0	0.00	0.37	0.00	(0.00,30.83)	28	0.00
<b>Minadeo J</b>	<b>352</b>	<b>5</b>	<b>1.42</b>	<b>1.59</b>	<b>0.79</b>	<b>(0.25, 1.83)</b>	<b>288</b>	<b>0.55</b>
South Nassau Comm.Hosp	26	0	0.00	4.24	0.00	(0.00, 2.93)	.	.
St. Francis Hospital	326	5	1.53	1.38	0.98	(0.32, 2.28)	288	0.55

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Morris W</b>	<b>1065</b>	<b>6</b>	<b>0.56</b>	<b>0.88</b>	<b>0.56</b>	<b>(0.21, 1.23)</b>	<b>952</b>	<b>0.40</b>
Buffalo General Hosp	562	4	0.71	0.83	0.76	(0.20, 1.94)	520	0.49
Mercy Hospital	378	1	0.26	0.96	0.24	(0.00, 1.34)	313	0.35
Millard Fillmore Hosp	125	1	0.80	0.88	0.80	(0.01, 4.47)	119	0.00
<b>Moussa I</b>	<b>663</b>	<b>4</b>	<b>0.60</b>	<b>0.81</b>	<b>0.66</b>	<b>(0.18, 1.68)</b>	<b>632</b>	<b>0.59</b>
NYP- Columbia Presby.	658	4	0.61	0.80	0.66	(0.18, 1.70)	628	0.59
NYP- Weill Cornell	5	0	0.00	1.17	0.00	(0.00,55.21)	4	0.00
<b>Musso J</b>	<b>67</b>	<b>0</b>	<b>0.00</b>	<b>0.39</b>	<b>0.00</b>	<b>(0.00,12.36)</b>	<b>66</b>	<b>0.00</b>
Long Island Jewish	5	0	0.00	0.56	0.00	(0.00,100.0)	4	0.00
North Shore Univ Hosp	62	0	0.00	0.38	0.00	(0.00,13.84)	62	0.00
<b>Naidu S</b>	<b>561</b>	<b>11</b>	<b>1.96</b>	<b>1.23</b>	<b>1.41</b>	<b>(0.70, 2.52)</b>	<b>460</b>	<b>1.07</b>
NYP- Weill Cornell	395	9	2.28	1.32	1.52	(0.69, 2.88)	334	1.01
Winthrop Univ. Hosp	166	2	1.20	1.00	1.06	(0.12, 3.83)	126	1.27
<b>Narins C</b>	<b>817</b>	<b>15</b>	<b>1.84</b>	<b>1.02</b>	<b>1.58 *</b>	<b>(0.89, 2.61)</b>	<b>647</b>	<b>1.43 *</b>
Strong Memorial Hosp	807	15	1.86	1.03	1.59 *	(0.89, 2.63)	638	1.44 *
Unity Hospital	10	0	0.00	0.58	0.00	(0.00,55.84)	9	0.00
<b>Nguyen-Ho P</b>	<b>245</b>	<b>3</b>	<b>1.22</b>	<b>1.25</b>	<b>0.86</b>	<b>(0.17, 2.52)</b>	<b>211</b>	<b>0.32</b>
Buffalo General Hosp	3	0	0.00	1.19	0.00	(0.00,90.45)	1	0.00
Millard Fillmore Hosp	242	3	1.24	1.25	0.87	(0.18, 2.54)	210	0.32
<b>Ong L S</b>	<b>2754</b>	<b>17</b>	<b>0.62</b>	<b>0.65</b>	<b>0.84</b>	<b>(0.49, 1.34)</b>	<b>2598</b>	<b>0.61</b>
Rochester General Hosp	2752	17	0.62	0.65	0.84	(0.49, 1.34)	2597	0.61
Unity Hospital	2	0	0.00	0.82	0.00	(0.00,100.0)	1	0.00
<b>Ong L Y</b>	<b>815</b>	<b>0</b>	<b>0.00</b>	<b>0.98</b>	<b>0.00 **</b>	<b>(0.00, 0.41)</b>	<b>710</b>	<b>0.00**</b>
Long Island Jewish	22	0	0.00	3.25	0.00	(0.00, 4.51)	3	0.00
North Shore Univ Hosp	793	0	0.00	0.91	0.00 **	(0.00, 0.45)	707	0.00 **
<b>Padmanabhan V</b>	<b>175</b>	<b>2</b>	<b>1.14</b>	<b>0.68</b>	<b>1.48</b>	<b>(0.17, 5.33)</b>	<b>167</b>	<b>0.00</b>
Long Island Jewish	4	0	0.00	1.26	0.00	(0.00,64.22)	4	0.00
NYP- Weill Cornell	4	0	0.00	0.74	0.00	(0.00,100.0)	4	0.00
North Shore Univ Hosp	167	2	1.20	0.67	1.58	(0.18, 5.71)	159	0.00
<b>Palta S</b>	<b>204</b>	<b>1</b>	<b>0.49</b>	<b>0.61</b>	<b>0.71</b>	<b>(0.01, 3.96)</b>	<b>198</b>	<b>0.63</b>
NY Methodist Hospital	88	0	0.00	0.66	0.00	(0.00, 5.55)	88	0.00
SVMC- St. Vincents	66	1	1.52	0.38	3.53	(0.05,19.63)	66	2.36
Univ.Hosp-Brooklyn	50	0	0.00	0.81	0.00	(0.00, 7.96)	44	0.00
<b>Papaleo R</b>	<b>349</b>	<b>1</b>	<b>0.29</b>	<b>0.63</b>	<b>0.40</b>	<b>(0.01, 2.22)</b>	<b>300</b>	<b>0.00</b>
Albany Medical Center	305	1	0.33	0.63	0.46	(0.01, 2.54)	270	0.00
Glens Falls Hospital	6	0	0.00	2.13	0.00	(0.00,25.28)	.	.
St. Peters Hospital	38	0	0.00	0.38	0.00	(0.00,22.16)	30	0.00

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Papandrea L</b>	<b>297</b>	<b>3</b>	<b>1.01</b>	<b>0.74</b>	<b>1.21</b>	<b>(0.24, 3.53)</b>	<b>236</b>	<b>2.00</b>
Albany Medical Center	40	1	2.50	1.33	1.66	(0.02, 9.23)	19	6.53
Glens Falls Hospital	1	0	0.00	0.62	0.00	(0.00,100.0)	.	.
St. Peters Hospital	256	2	0.78	0.64	1.07	(0.12, 3.85)	217	1.48
<b>Parikh M</b>	<b>1268</b>	<b>4</b>	<b>0.32</b>	<b>0.73</b>	<b>0.38</b>	<b>(0.10, 0.98)</b>	<b>1200</b>	<b>0.26</b>
Lenox Hill Hospital	186	1	0.54	0.59	0.81	(0.01, 4.50)	180	0.63
NYP- Weill Cornell	1082	3	0.28	0.75	0.33	(0.07, 0.95)	1020	0.21
<b>Park C</b>	<b>794</b>	<b>9</b>	<b>1.13</b>	<b>1.38</b>	<b>0.72</b>	<b>(0.33, 1.37)</b>	<b>609</b>	<b>0.55</b>
Huntington Hospital	1	0	0.00	0.94	0.00	(0.00,100.0)	.	.
Long Island Jewish	739	8	1.08	1.29	0.74	(0.32, 1.45)	602	0.56
North Shore Univ Hosp	54	1	1.85	2.61	0.63	(0.01, 3.48)	7	0.00
<b>Park J</b>	<b>377</b>	<b>0</b>	<b>0.00</b>	<b>0.44</b>	<b>0.00</b>	<b>(0.00, 1.97)</b>	<b>359</b>	<b>0.00</b>
NY Hospital - Queens	4	0	0.00	0.12	0.00	(0.00,100.0)	4	0.00
North Shore Univ Hosp	137	0	0.00	0.34	0.00	(0.00, 7.01)	137	0.00
Winthrop Univ. Hosp	236	0	0.00	0.50	0.00	(0.00, 2.75)	218	0.00
<b>Patcha R</b>	<b>330</b>	<b>4</b>	<b>1.21</b>	<b>0.66</b>	<b>1.62</b>	<b>(0.44, 4.16)</b>	<b>283</b>	<b>0.48</b>
Huntington Hospital	39	1	2.56	1.61	1.40	(0.02, 7.80)	.	.
North Shore Univ Hosp	291	3	1.03	0.53	1.72	(0.34, 5.01)	283	0.48
<b>Patel A</b>	<b>451</b>	<b>1</b>	<b>0.22</b>	<b>0.89</b>	<b>0.22</b>	<b>(0.00, 1.22)</b>	<b>378</b>	<b>0.00</b>
Faxton - St. Lukes	1	0	0.00	0.79	0.00	(0.00,100.0)	.	.
St. Elizabeth Med Ctr	450	1	0.22	0.89	0.22	(0.00, 1.22)	378	0.00
<b>Patel R B</b>	<b>584</b>	<b>1</b>	<b>0.17</b>	<b>0.72</b>	<b>0.21</b>	<b>(0.00, 1.16)</b>	<b>438</b>	<b>0.39</b>
Good Sam - West Islip	45	0	0.00	1.86	0.00	(0.00, 3.85)	.	.
North Shore Univ Hosp	285	1	0.35	0.46	0.67	(0.01, 3.74)	275	0.54
Southside Hospital	203	0	0.00	0.60	0.00	(0.00, 2.64)	159	0.00
St. Catherine of Siena	45	0	0.00	1.83	0.00	(0.00, 3.93)	.	.
Winthrop Univ. Hosp	6	0	0.00	0.36	0.00	(0.00,100.0)	4	0.00
<b>Patel T</b>	<b>1151</b>	<b>12</b>	<b>1.04</b>	<b>1.27</b>	<b>0.72</b>	<b>(0.37, 1.26)</b>	<b>968</b>	<b>0.56</b>
Rochester General Hosp	818	8	0.98	1.01	0.85	(0.37, 1.68)	786	0.63
Strong Memorial Hosp	36	0	0.00	0.56	0.00	(0.00,16.01)	36	0.00
Unity Hospital	297	4	1.35	2.07	0.57	(0.15, 1.47)	146	0.00
<b>Pena Sing I</b>	<b>831</b>	<b>7</b>	<b>0.84</b>	<b>1.02</b>	<b>0.73</b>	<b>(0.29, 1.50)</b>	<b>765</b>	<b>0.47</b>
Bellevue Hospital Ctr	650	6	0.92	0.96	0.85	(0.31, 1.84)	596	0.54
NYU Hospitals Center	181	1	0.55	1.22	0.40	(0.01, 2.21)	169	0.00
<b>Perry-Bottinger L</b>	<b>54</b>	<b>1</b>	<b>1.85</b>	<b>0.37</b>	<b>4.38</b>	<b>(0.06,24.36)</b>	<b>53</b>	<b>3.57</b>
NY Hospital - Queens	7	0	0.00	0.68	0.00	(0.00,67.77)	7	0.00
NYP- Columbia Presby.	47	1	2.13	0.33	5.74	(0.08,31.93)	46	4.60
<b>Petrosian G</b>	<b>1484</b>	<b>17</b>	<b>1.15</b>	<b>0.95</b>	<b>1.06</b>	<b>(0.62, 1.70)</b>	<b>1390</b>	<b>0.76</b>
South Nassau Comm.Hosp	33	0	0.00	0.64	0.00	(0.00,15.29)	29	0.00
St. Francis Hospital	1451	17	1.17	0.96	1.08	(0.63, 1.72)	1361	0.77

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Phadke K</b>	<b>1074</b>	<b>10</b>	<b>0.93</b>	<b>0.95</b>	<b>0.87</b>	<b>(0.41, 1.59)</b>	<b>932</b>	<b>0.84</b>
Buffalo General Hosp	7	0	0.00	1.54	0.00	(0.00,30.02)	2	0.00
Erie County Med Ctr	108	1	0.93	1.43	0.57	(0.01, 3.17)	90	1.48
Millard Fillmore Hosp	959	9	0.94	0.89	0.93	(0.42, 1.77)	840	0.79
<b>Puma A</b>	<b>745</b>	<b>8</b>	<b>1.07</b>	<b>0.64</b>	<b>1.47</b>	<b>(0.63, 2.89)</b>	<b>723</b>	<b>1.10</b>
Jamaica Hosp Med Ctr	3	0	0.00	1.21	0.00	(0.00,88.66)	.	.
Lenox Hill Hospital	398	2	0.50	0.55	0.80	(0.09, 2.90)	388	0.68
NY Methodist Hospital	344	6	1.74	0.75	2.05	(0.75, 4.47)	335	1.59
<b>Reddy C</b>	<b>284</b>	<b>3</b>	<b>1.06</b>	<b>0.66</b>	<b>1.40</b>	<b>(0.28, 4.09)</b>	<b>274</b>	<b>0.77</b>
Glens Falls Hospital	2	1	50.00	1.38	31.82	(0.42,100.0)	1	0.00
NY Methodist Hospital	282	2	0.71	0.66	0.95	(0.11, 3.42)	273	0.77
<b>Reger M</b>	<b>454</b>	<b>1</b>	<b>0.22</b>	<b>0.78</b>	<b>0.25</b>	<b>(0.00, 1.38)</b>	<b>386</b>	<b>0.26</b>
Crouse Hospital	2	0	0.00	1.76	0.00	(0.00,91.59)	2	0.00
St. Josephs Hospital	452	1	0.22	0.78	0.25	(0.00, 1.40)	384	0.27
<b>Rehman A</b>	<b>834</b>	<b>4</b>	<b>0.48</b>	<b>1.12</b>	<b>0.38</b>	<b>(0.10, 0.97)</b>	<b>738</b>	<b>0.10**</b>
North Shore Univ Hosp	6	0	0.00	0.67	0.00	(0.00,79.93)	6	0.00
South Nassau Comm.Hosp	19	0	0.00	1.85	0.00	(0.00, 9.21)	2	0.00
St. Francis Hospital	809	4	0.49	1.10	0.39	(0.11, 1.01)	730	0.10**
<b>Reich D</b>	<b>732</b>	<b>5</b>	<b>0.68</b>	<b>0.72</b>	<b>0.84</b>	<b>(0.27, 1.95)</b>	<b>643</b>	<b>0.72</b>
Good Sam - West Islip	45	0	0.00	1.74	0.00	(0.00, 4.13)	.	.
Long Island Jewish	102	0	0.00	1.07	0.00	(0.00, 2.96)	101	0.00
North Shore Univ Hosp	388	1	0.26	0.53	0.43	(0.01, 2.37)	383	0.31
Southside Hospital	154	4	2.60	0.75	3.03	(0.82, 7.76)	117	4.92 *
St. Francis Hospital	43	0	0.00	0.37	0.00	(0.00,20.46)	42	0.00
<b>Reimers C</b>	<b>1361</b>	<b>11</b>	<b>0.81</b>	<b>0.74</b>	<b>0.97</b>	<b>(0.48, 1.73)</b>	<b>1299</b>	<b>0.45</b>
Jamaica Hosp Med Ctr	1	0	0.00	0.94	0.00	(0.00,100.0)	.	.
Lenox Hill Hospital	1360	11	0.81	0.73	0.97	(0.48, 1.73)	1299	0.45
<b>Rentrop K</b>	<b>55</b>	<b>0</b>	<b>0.00</b>	<b>0.21</b>	<b>0.00</b>	<b>(0.00,27.67)</b>	<b>55</b>	<b>0.00</b>
Beth Israel Med Ctr	19	0	0.00	0.18	0.00	(0.00,96.65)	19	0.00
NYU Hospitals Center	2	0	0.00	0.22	0.00	(0.00,100.0)	2	0.00
SVCMC- St. Vincents	34	0	0.00	0.23	0.00	(0.00,40.96)	34	0.00
<b>Roccario E</b>	<b>655</b>	<b>5</b>	<b>0.76</b>	<b>0.93</b>	<b>0.72</b>	<b>(0.23, 1.68)</b>	<b>501</b>	<b>0.41</b>
Albany Medical Center	3	0	0.00	3.18	0.00	(0.00,33.87)	2	0.00
St. Peters Hospital	652	5	0.77	0.92	0.73	(0.24, 1.71)	499	0.41
<b>Rosenband M</b>	<b>654</b>	<b>3</b>	<b>0.46</b>	<b>0.94</b>	<b>0.43</b>	<b>(0.09, 1.25)</b>	<b>621</b>	<b>0.41</b>
North Shore Univ Hosp	51	0	0.00	0.48	0.00	(0.00,13.32)	50	0.00
St. Catherine of Siena	15	0	0.00	1.71	0.00	(0.00,12.56)	1	0.00
Univ.Hosp-Stony Brook	588	3	0.51	0.97	0.47	(0.09, 1.36)	570	0.43
<b>Rouvelas P</b>	<b>127</b>	<b>1</b>	<b>0.79</b>	<b>0.62</b>	<b>1.12</b>	<b>(0.01, 6.21)</b>	<b>126</b>	<b>0.79</b>
NY Methodist Hospital	46	0	0.00	0.71	0.00	(0.00, 9.94)	46	0.00
Staten Island Univ Hosp	81	1	1.23	0.57	1.90	(0.02,10.56)	80	1.30

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Sassower M</b>	<b>561</b>	<b>4</b>	<b>0.71</b>	<b>0.75</b>	<b>0.84</b>	<b>(0.23, 2.14)</b>	<b>509</b>	<b>0.41</b>
North Shore Univ Hosp	25	0	0.00	0.31	0.00	(0.00,42.03)	25	0.00
Winthrop Univ. Hosp	536	4	0.75	0.77	0.85	(0.23, 2.18)	484	0.42
<b>Schwartz R</b>	<b>1007</b>	<b>5</b>	<b>0.50</b>	<b>0.80</b>	<b>0.55</b>	<b>(0.18, 1.28)</b>	<b>949</b>	<b>0.31</b>
Huntington Hospital	1	0	0.00	0.67	0.00	(0.00,100.0)	.	.
North Shore Univ Hosp	164	0	0.00	0.49	0.00	(0.00, 4.00)	163	0.00
St. Francis Hospital	6	0	0.00	0.31	0.00	(0.00,100.0)	6	0.00
Winthrop Univ. Hosp	836	5	0.60	0.86	0.61	(0.20, 1.42)	780	0.36
<b>Sehhat K</b>	<b>168</b>	<b>3</b>	<b>1.79</b>	<b>0.91</b>	<b>1.72</b>	<b>(0.35, 5.03)</b>	<b>145</b>	<b>1.60</b>
Montefiore - Moses	30	0	0.00	1.14	0.00	(0.00, 9.48)	25	0.00
SVCMC- St. Vincents	138	3	2.17	0.86	2.21	(0.44, 6.47)	120	2.00
<b>Shaknovich A</b>	<b>294</b>	<b>2</b>	<b>0.68</b>	<b>0.49</b>	<b>1.21</b>	<b>(0.14, 4.37)</b>	<b>293</b>	<b>0.90</b>
Beth Israel Med Ctr	110	2	1.82	0.43	3.75	(0.42,13.53)	110	2.69
NY Methodist Hospital	184	0	0.00	0.53	0.00	(0.00, 3.28)	183	0.00
<b>Shani J</b>	<b>1155</b>	<b>5</b>	<b>0.43</b>	<b>0.87</b>	<b>0.44</b>	<b>(0.14, 1.03)</b>	<b>1132</b>	<b>0.35</b>
Maimonides Medical Ctr	1154	5	0.43	0.87	0.44	(0.14, 1.03)	1131	0.35
NYU Hospitals Center	1	0	0.00	0.15	0.00	(0.00,100.0)	1	0.00
<b>Sherman W</b>	<b>317</b>	<b>2</b>	<b>0.63</b>	<b>0.99</b>	<b>0.56</b>	<b>(0.06, 2.02)</b>	<b>285</b>	<b>0.59</b>
Mount Sinai Hospital	26	0	0.00	0.48	0.00	(0.00,25.77)	26	0.00
NYP- Columbia Presby.	291	2	0.69	1.04	0.58	(0.07, 2.10)	259	0.63
<b>Shlofmitz R</b>	<b>1584</b>	<b>5</b>	<b>0.32</b>	<b>0.53</b>	<b>0.52</b>	<b>(0.17, 1.22)</b>	<b>1552</b>	<b>0.38</b>
St. Catherine of Siena	3	0	0.00	0.87	0.00	(0.00,100.0)	.	.
St. Francis Hospital	1581	5	0.32	0.53	0.52	(0.17, 1.22)	1552	0.38
<b>Simons A</b>	<b>859</b>	<b>4</b>	<b>0.47</b>	<b>0.83</b>	<b>0.49</b>	<b>(0.13, 1.26)</b>	<b>733</b>	<b>0.45</b>
Crouse Hospital	4	0	0.00	4.95	0.00	(0.00,16.32)	3	0.00
St. Josephs Hospital	855	4	0.47	0.81	0.51	(0.14, 1.30)	730	0.47
<b>Singh V</b>	<b>928</b>	<b>4</b>	<b>0.43</b>	<b>0.58</b>	<b>0.65</b>	<b>(0.17, 1.66)</b>	<b>884</b>	<b>0.36</b>
NYP- Columbia Presby.	605	2	0.33	0.57	0.51	(0.06, 1.85)	590	0.51
St. Lukes at St. Lukes	323	2	0.62	0.62	0.89	(0.10, 3.20)	294	0.00
<b>Slater J</b>	<b>440</b>	<b>6</b>	<b>1.36</b>	<b>0.77</b>	<b>1.56</b>	<b>(0.57, 3.40)</b>	<b>407</b>	<b>1.07</b>
Bellevue Hospital Ctr	105	2	1.90	1.13	1.49	(0.17, 5.37)	90	1.85
NYU Hospitals Center	271	3	1.11	0.57	1.70	(0.34, 4.97)	253	0.60
St. Lukes at St. Lukes	64	1	1.56	1.00	1.38	(0.02, 7.67)	64	1.01
<b>Soffer D</b>	<b>542</b>	<b>4</b>	<b>0.74</b>	<b>0.71</b>	<b>0.91</b>	<b>(0.25, 2.34)</b>	<b>504</b>	<b>0.82</b>
Jamaica Hosp Med Ctr	8	0	0.00	2.18	0.00	(0.00,18.56)	.	.
Lenox Hill Hospital	534	4	0.75	0.69	0.96	(0.26, 2.45)	504	0.82
<b>Sokol S</b>	<b>209</b>	<b>4</b>	<b>1.91</b>	<b>0.90</b>	<b>1.88</b>	<b>(0.51, 4.81)</b>	<b>185</b>	<b>0.64</b>
Montefiore - Moses	11	0	0.00	0.53	0.00	(0.00,55.52)	11	0.00
Montefiore - Weiler	198	4	2.02	0.92	1.94	(0.52, 4.96)	174	0.68

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Srinivas V</b>	<b>607</b>	<b>8</b>	<b>1.32</b>	<b>0.87</b>	<b>1.33</b>	<b>(0.57, 2.62)</b>	<b>542</b>	<b>0.76</b>
Montefiore - Moses	1	0	0.00	0.61	0.00	(0.00,100.0)	1	0.00
Montefiore - Weiler	606	8	1.32	0.87	1.33	(0.57, 2.62)	541	0.77
<b>Strizik B</b>	<b>542</b>	<b>7</b>	<b>1.29</b>	<b>1.00</b>	<b>1.13</b>	<b>(0.45, 2.33)</b>	<b>462</b>	<b>0.71</b>
Huntington Hospital	44	3	6.82	2.03	2.95	(0.59, 8.62)	.	.
Long Island Jewish	53	0	0.00	1.06	0.00	(0.00, 5.73)	48	0.00
North Shore Univ Hosp	445	4	0.90	0.90	0.88	(0.24, 2.26)	414	0.84
<b>Stuver T</b>	<b>1009</b>	<b>14</b>	<b>1.39</b>	<b>0.98</b>	<b>1.25</b>	<b>(0.68, 2.10)</b>	<b>801</b>	<b>0.77</b>
Rochester General Hosp	1006	14	1.39	0.97	1.27	(0.69, 2.13)	801	0.77
Unity Hospital	3	0	0.00	4.93	0.00	(0.00,21.81)	.	.
<b>Suleman J</b>	<b>1042</b>	<b>15</b>	<b>1.44</b>	<b>0.87</b>	<b>1.46</b>	<b>(0.82, 2.42)</b>	<b>995</b>	<b>1.02</b>
Jamaica Hosp Med Ctr	8	3	37.50	2.60	12.72 *	(2.56,37.15)	.	.
Long Island Jewish	36	0	0.00	0.56	0.00	(0.00,16.07)	33	0.00
Mount Sinai Hospital	998	12	1.20	0.86	1.23	(0.63, 2.14)	962	1.05
<b>Sullivan P</b>	<b>99</b>	<b>3</b>	<b>3.03</b>	<b>0.60</b>	<b>4.46 *</b>	<b>(0.90,13.04)</b>	<b>95</b>	<b>1.46</b>
Buffalo General Hosp	97	3	3.09	0.57	4.76 *	(0.96,13.90)	93	1.56
Millard Fillmore Hosp	2	0	0.00	1.83	0.00	(0.00,88.38)	2	0.00
<b>Tai Z</b>	<b>241</b>	<b>4</b>	<b>1.66</b>	<b>0.66</b>	<b>2.21</b>	<b>(0.59, 5.66)</b>	<b>229</b>	<b>1.17</b>
NY Methodist Hospital	109	0	0.00	0.48	0.00	(0.00, 6.19)	107	0.00
SVCMC- St. Vincents	132	4	3.03	0.81	3.29 *	(0.88, 8.41)	122	1.89
<b>Tsiamtsiouris T</b>	<b>555</b>	<b>7</b>	<b>1.26</b>	<b>0.91</b>	<b>1.22</b>	<b>(0.49, 2.51)</b>	<b>507</b>	<b>0.64</b>
St. Catherine of Siena	9	0	0.00	2.98	0.00	(0.00,12.06)	.	.
St. Francis Hospital	546	7	1.28	0.88	1.29	(0.52, 2.65)	507	0.64
<b>Varma P</b>	<b>474</b>	<b>7</b>	<b>1.48</b>	<b>0.98</b>	<b>1.32</b>	<b>(0.53, 2.73)</b>	<b>403</b>	<b>1.02</b>
Faxton - St. Lukes	1	0	0.00	3.15	0.00	(0.00,100.0)	.	.
St. Elizabeth Med Ctr	473	7	1.48	0.98	1.33	(0.53, 2.75)	403	1.02
<b>Wachsmann D</b>	<b>197</b>	<b>0</b>	<b>0.00</b>	<b>0.79</b>	<b>0.00</b>	<b>(0.00, 2.06)</b>	<b>184</b>	<b>0.00</b>
North Shore Univ Hosp	190	0	0.00	0.82	0.00	(0.00, 2.08)	177	0.00
St. Francis Hospital	7	0	0.00	0.13	0.00	(0.00,100.0)	7	0.00
<b>Weinberger J</b>	<b>125</b>	<b>2</b>	<b>1.60</b>	<b>1.03</b>	<b>1.37</b>	<b>(0.15, 4.94)</b>	<b>115</b>	<b>0.83</b>
Mount Sinai Hospital	2	0	0.00	0.35	0.00	(0.00,100.0)	2	0.00
NYP- Columbia Presby.	123	2	1.63	1.04	1.38	(0.15, 4.96)	113	0.84
<b>Wilentz J</b>	<b>255</b>	<b>2</b>	<b>0.78</b>	<b>0.53</b>	<b>1.30</b>	<b>(0.15, 4.71)</b>	<b>251</b>	<b>0.59</b>
Beth Israel Med Ctr	8	0	0.00	0.30	0.00	(0.00,100.0)	7	0.00
Lenox Hill Hospital	132	2	1.52	0.63	2.11	(0.24, 7.62)	130	0.99
St. Lukes at St. Lukes	115	0	0.00	0.43	0.00	(0.00, 6.57)	114	0.00
<b>Witkes D</b>	<b>402</b>	<b>4</b>	<b>1.00</b>	<b>0.66</b>	<b>1.33</b>	<b>(0.36, 3.40)</b>	<b>379</b>	<b>1.27</b>
North Shore Univ Hosp	202	2	0.99	0.56	1.56	(0.18, 5.63)	198	1.18
Winthrop Univ. Hosp	200	2	1.00	0.76	1.16	(0.13, 4.18)	181	1.39

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Yang Y</b>	<b>333</b>	<b>0</b>	<b>0.00</b>	<b>0.65</b>	<b>0.00</b>	<b>(0.00, 1.49)</b>	<b>302</b>	<b>0.00</b>
Jamaica Hosp Med Ctr	3	0	0.00	1.32	0.00	(0.00,81.29)	.	.
Lenox Hill Hospital	330	0	0.00	0.65	0.00	(0.00, 1.52)	302	0.00
<b>Zisfein J</b>	<b>464</b>	<b>7</b>	<b>1.51</b>	<b>1.10</b>	<b>1.21</b>	<b>(0.48, 2.49)</b>	<b>393</b>	<b>0.70</b>
North Shore Univ Hosp	127	2	1.57	0.65	2.14	(0.24, 7.74)	122	1.70
South Nassau Comm.Hosp	200	5	2.50	1.75	1.26	(0.40, 2.93)	142	0.49
St. Francis Hospital	137	0	0.00	0.56	0.00	(0.00, 4.19)	129	0.00

\*RAMR significantly higher than statewide rate based on 95 percent confidence interval.

\*\*RAMR significantly lower than statewide rate based on 95 percent confidence interval.



# Criteria Used in Reporting Significant Risk Factors (2007) Based on Documentation in Medical Record

Patient Risk Factor	Definitions
<b>Hemodynamic State</b>	
• Unstable	Determined just prior to the intervention Patient requires pharmacologic or mechanical support to maintain blood pressure or cardiac output.
• Shock	Acute hypotension (systolic blood pressure < 80 mmHg) or low cardiac index (< 2.0 liters/min/m <sup>2</sup> ), despite pharmacologic or mechanical support. All cases with this risk factor are excluded from this report.
<b>Comorbidities</b>	
• Congestive Heart Failure (CHF), Current	Within 2 weeks prior to the procedure, a physician has diagnosed CHF by one of the following: <ul style="list-style-type: none"> <li>• Paroxysmal nocturnal dyspnea (PND);</li> <li>• Dyspnea on exertion (DOE) due to heart failure;</li> <li>• Chest X-Ray showing pulmonary congestion.</li> </ul>
• Malignant Ventricular Arrhythmia	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.
• Peripheral Vascular Disease	Angiographic demonstration of at least 50 percent narrowing in a major Aortoiliac or Femoral/Popliteal vessel, previous surgery for such disease, absent femoral or pedal pulses, or the inability to insert a catheter or intra-aortic balloon due to iliac aneurysm or obstruction of the aortoiliac or femoral arteries.
• Renal Failure, Creatinine	Highest Pre-PCI creatinine during the hospital admission was within the indicated range.
• Renal Failure, Dialysis	The patient is on chronic peritoneal or hemodialysis.
<b>Ventricular Function</b>	
• Previous MI	Most recent myocardial infarction (MI) occurred in the specified time period before the intervention.
• Ejection Fraction	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.
<b>Vessels Diseased</b>	
• Left Main Disease	The patient has at least a 50 percent blockage in the Left Main Coronary Artery.
• Two Vessels Diseased	The patient has at least a 70 percent blockage in two of the three native coronary arteries including the Left Anterior Descending (LAD), the Right Coronary Artery (RCA), and the Left Circumflex (LCX) or their major branches.
• Three Vessels Diseased	The patient has at least a 70 percent blockage in each of the three native coronary arteries including the Left Anterior Descending (LAD), the Right Coronary Artery (RCA), and the Left Circumflex (LCX) or their major branches.

## MEDICAL TERMINOLOGY

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**angina pectoris** - The pain or discomfort felt when blood flow to the heart muscle is impeded by blockages 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, oxygen-rich blood 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.

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*.

**percutaneous coronary intervention (PCI) (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.

**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

## 2007 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 2007 are presented in the table that follows.

Roughly speaking, the odds ratio for a risk factor represents the number of times a patient with that risk factor is more likely 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 “CHF-Current” is 2.133. This means that a patient with CHF in the past two weeks is approximately 2.133 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 CHF-Current who has the same other significant risk factors. The risk factors Unstable, Peripheral Vascular Disease, Malignant Ventricular Arrhythmia and Left Main Disease are interpreted in the same way.

With regard to age, the odds ratio roughly represents the number of times a patient who is over age 55 is more likely 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 1.051 times the chance of dying in the hospital or within 30 days than a 67 year-old patient has, all other risk factors being the same. All patients aged 55 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 1.614, meaning that a female undergoing PCI is 1.614 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.

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 four ranges (less than 20 percent, 20 percent to 29 percent, 30 percent to 39 percent and 40 percent 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 40 percent or more. Thus, a PCI patient with an ejection fraction of less than 20 percent is about 3.717 times as likely to die in the hospital or within 30 days as a patient with an ejection fraction of 40 percent or higher, all other significant risk factors being the same.

Previous MI is subdivided into five ranges (occurring less than six hours prior, six to eleven hours prior, twelve to twenty-three hours prior, one to fourteen days prior and no MI within fourteen 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 fourteen days prior to PCI.

Renal failure is subdivided into five groups. Three categories represent patients with various levels of elevated creatinine, but no dialysis. The fourth 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 1.2 mg/dL.

Number of vessels diseased is comprised of three categories (fewer than two vessels diseased, two vessels diseased, and three vessels diseased). Two and three vessels diseased refers to patients with at least a 70 percent blockage in two or three of the native coronary arteries including the Left Anterior Descending (LAD), the Right Coronary Artery (RCA), and the Left Circumflex (LCX) or their major branches, respectively. The reference category for this group includes patients who have fewer than two vessels diseased.

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

**Appendix 1** Multivariate Risk-Factor Equation for In-Hospital/30 Day Deaths During or Following PCI, 2007 (*All Cases*)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
<b>Demographic</b>				
Age: number of years > 55	---	0.0493	<.0001	1.051
Female Gender	32.00	0.4789	<.0001	1.614
<b>Hemodynamic State</b>				
Unstable	0.49	1.2987	<.0001	3.665
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 40% or greater	88.52	--Reference--		1.000
Ejection Fraction less than 20 %	0.76	1.3130	<.0001	3.717
Ejection Fraction 20-29 %	3.31	0.6286	<.0001	1.875
Ejection Fraction 30-39 %	7.41	0.5728	<.0001	1.773
Pre-Procedural MI				
No MI within 14 days	74.61	--Reference--		1.000
MI < 6 hours	7.48	2.1466	<.0001	8.555
MI 6-11 hours	2.43	2.1403	<.0001	8.502
MI 12-23 hours	2.58	1.6057	<.0001	4.982
MI 1-14 days	12.89	1.0698	<.0001	2.915
<b>Comorbidities</b>				
CHF, Current	5.09	0.7573	<.0001	2.133
Malignant Ventricular Arrhythmia	0.51	1.1284	<.0001	3.091
Peripheral Vascular Disease	7.29	0.4037	0.0026	1.497
Renal Failure				
No Renal Failure	66.41	--Reference--		1.000
Renal Failure, Creatinine 1.2-1.5 mg/dl	23.46	0.3365	0.0043	1.400
Renal Failure, Creatinine 1.6-2.0 mg/dl	5.91	0.7922	<.0001	2.208
Renal Failure, Creatinine 2.1-2.5 mg/dl	1.33	0.8722	0.0005	2.392
Renal Failure, Creatinine > 2.5 mg/dl	0.89	1.4719	<.0001	4.357
Renal Failure, Requiring Dialysis	2.00	1.4517	<.0001	4.270
<b>Vessels Diseased</b>				
Number of Diseased Vessels				
Fewer than Two Vessels Diseased	54.89	--Reference--		1.000
Two Vessels Diseased	31.40	0.3255	0.0031	1.385
Three Vessels Diseased	13.71	0.5040	<.0001	1.655
Left Main Diseased	3.63	0.5949	0.0003	1.813
Intercept = -7.1270				
C Statistic = 0.852				

# Appendix 2

## 2007 Risk Factors For In-Hospital/30-Day Mortality For Non-Emergency PCI

Appendix 2 contains the significant pre-procedural risk factors for 2007 New York State PCI patients who were not emergency patients (were not hemodynamically unstable and who did not suffer a heart attack within 24 hours prior to the PCI being performed).

The variables for Age, Female Gender, CHF-Current, Malignant Ventricular Arrhythmia and Left Main Disease are interpreted in the same manner as they were in Appendix 1. The interpretation of Cerebrovascular Disease and COPD is like that described for CHF-Current in Appendix 1. The patient either has the condition, or does not. Renal Failure is similar to Appendix 1, but in this case, all groups are relative to patients who are not on dialysis and who had no pre-PCI creatinine values greater than 1.5 mg/dL. 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 50 percent or greater. With regard to Vessels Diseased, three vessels diseased is relative to patients who have at least a 70 percent blockage in fewer than three of the native coronary arteries or their major branches.

In this model, there is only one category for Previous MI. Patients with a previous MI between one and fourteen days prior to the procedure are 2.747 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 fourteen days, if all other risk factors are the same.

**Appendix 2** Multivariate Risk-Factor Equation for In-Hospital/ 30-Day Deaths During or Following PCI , 2007 (Non-Emergency Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
<b>Demographic</b>				
Age: Number of Years > 55	--	0.0510	<.0001	1.052
Female Gender	32.79	0.3518	0.0055	1.422
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 50% or greater	76.97	--Reference--		1.000
Ejection Fraction less than 20%	0.70	1.2862	0.0002	3.619
Ejection Fraction 20-39%	9.17	0.9885	<.0001	2.687
Ejection Fraction 40-49%	13.16	0.5532	0.0009	1.739
Pre-Procedural MI				
Previous MI 1-14 days	14.67	1.0105	<.0001	2.747
<b>Comorbidities</b>				
Cerebrovascular Disease	8.24	0.5265	0.0006	1.693
CHF, Current	5.12	0.7147	<.0001	2.044
COPD	6.00	0.5273	0.0038	1.694
Malignant Ventricular Arrhythmia	0.32	1.1803	0.0051	3.255
Renal Failure				
No Renal Failure	89.51	--Reference--		1.000
Renal Failure, Creatinine 1.6 - 2.5 mg/dl	7.39	0.4972	0.0030	1.644
Renal Failure, Creatinine > 2.5 mg/dl	0.91	1.2189	<.0001	3.384
Renal Failure, requiring dialysis	2.19	1.2772	<.0001	3.587
<b>Vessels Diseased</b>				
Three Vessels Diseased	13.61	0.4029	0.0041	1.496
Left Main Diseased	3.78	0.6442	0.0009	1.904
Intercept = -7.0515				
C Statistic = 0.826				

# Appendix 3

## 2005-2007 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 2005-2007 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. All variables except Body Surface Area, Renal Failure, and Sum of Risk Factors Squared are interpreted in the same manner as previously described.

Body surface area is a function of height and weight and is a proxy for vessel size. Since larger vessels are easier to work with, larger BSA is associated with decreased likelihood of mortality. This model includes terms for both body surface area and the square of that value, reflecting the complex relationship between BSA and in-hospital / 30-day mortality. This format is used to improve the model's ability to predict mortality, but it means that the odds ratios for these terms do not have a straightforward interpretation.

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 1.0 mg/dL.

The Sum 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 body surface area), 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, 2005-2007 (All Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
<b>Demographic</b>				
Age: Number of years greater than 60	--	0.0486	<.0001	1.050
Body Surface Area	--	-4.0887	<.0001	0.017
Body Surface Area - squared	--	0.9514	<.0001	2.589
Female Gender	32.03	0.5889	<.0001	1.802
<b>Hemodynamic State</b>				
Unstable	0.47	2.0931	<.0001	8.110
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 40% or more	73.64	--Reference--		1.000
Ejection Fraction less than 20 %	0.83	1.4817	<.0001	4.400
Ejection Fraction 20-29 %	3.41	1.1264	<.0001	3.085
Ejection Fraction 30-39 %	7.15	0.8726	<.0001	2.393
Ejection Fraction 40-49 %	14.97	0.4557	<.0001	1.577
Pre-Procedural MI				
No MI within 14 days	75.99	--Reference--		1.000
MI < 6 hours	6.78	2.1168	<.0001	8.305
MI 6-11 hours	2.08	2.0271	<.0001	7.592
MI 12-23 hours	2.57	1.6931	<.0001	5.436
MI 1-7 days	11.47	1.2570	<.0001	3.515
MI 8-14 days	1.11	1.2039	<.0001	3.333
<b>Comorbidities</b>				
Cerebrovascular Disease	7.67	0.6443	<.0001	1.905
COPD	6.16	0.8652	<.0001	2.376
CHF, Current	5.35	0.9798	<.0001	2.664
Diabetes, requiring medication	32.17	0.4713	<.0001	1.602
Malignant Ventricular Arrhythmia	0.50	1.4378	<.0001	4.211
Peripheral Vascular Disease	6.91	0.5685	<.0001	1.766
Renal Failure				
No Renal Failure	53.09	--Reference--		1.000
Renal Failure, Creatinine 1.1 - 1.5 mg/dl	36.90	0.4551	<.0001	1.576
Renal Failure, Creatinine 1.6 - 2.0 mg/dl	5.74	0.9649	<.0001	2.625
Renal Failure, Creatinine 2.1 - 2.5 mg/dl	1.35	1.2551	<.0001	3.508
Renal Failure, Creatinine > 2.5 mg/dl	0.94	1.4659	<.0001	4.331
Renal Failure, Requiring Dialysis	1.97	1.6170	<.0001	5.038
<b>Vessels Diseased</b>				
Number of Vessels Diseased				
Fewer than Two Vessels Diseased	55.22	--Reference--		1.000
Two Vessels Diseased	31.09	0.4295	<.0001	1.537
Three Vessels Diseased	13.69	0.6687	<.0001	1.952
Left Main Disease	3.72	0.6481	<.0001	1.912
<b>Sum of Risk Factors Squared</b>	--	-0.0305	<.0001	0.970
Intercept = -3.0663				
C Statistic = 0.846				

# Appendix 4

## 2005-2007 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 2005-2007 time period are presented in the Appendix 4 table below. The interpretation for this appendix is similar to the interpretation of Appendices 1-3 described previously.

The odds ratio of 0.956 for Age means that for patients under age 50, the odds of a patient of any given age are 0.956 times the odds of a patient one year younger experiencing an in-hospital / 30 day death, all other significant risk factors being the same. For patients over age 50, both terms apply, making the interpretation more complicated. A patient over age 50 has odds of experiencing in-hospital / 30-day death that are 1.042 times the odds of another patient over age 50 who has all the same significant risk factors but is one year younger.

**Appendix 4** Multivariate Risk-Factor Equation for In-Hospital / 30-Day Deaths During or Following PCI in New York State, 2005-2007 (Non-Emergency Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
<b>Demographic</b>				
Age	--	-0.0451	0.0242	0.956
Age: number of years > 50	--	0.0862	<.0001	1.090
Body Surface Area	--	-4.9340	<.0001	0.007
Body Surface Area - squared	--	1.1008	<.0001	3.006
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 50% or greater	76.76	--Reference--		1.000
Ejection Fraction less than 20 %	0.77	1.3588	<.0001	3.892
Ejection Fraction 20-29%	3.04	1.1169	<.0001	3.055
Ejection Fraction 30-39 %	6.14	1.0302	<.0001	2.801
Ejection Fraction 40-49 %	13.29	0.6281	<.0001	1.874
Pre-Procedural MI				
No Previous MI within 14 days	85.85	--Reference--		1.000
Previous MI, 1- 7 days	12.90	1.2214	<.0001	3.392
Previous MI, 8-14 days	1.25	1.2253	<.0001	3.405
<b>Comorbidities</b>				
Cerebrovascular Disease	8.04	0.6683	<.0001	1.951
CHF, Current	5.38	0.9426	<.0001	2.567
COPD	6.36	0.9513	<.0001	2.589
Malignant Ventricular Arrhythmia	0.36	1.4079	<.0001	4.087
Peripheral Vascular Disease	7.29	0.5933	<.0001	1.810
Renal Failure				
No Renal Failure	89.62	--Reference--		1.000
Renal Failure, creatinine 1.6 – 2.0 mg/dl	5.88	0.6903	<.0001	1.994
Renal Failure, creatinine 2.1 – 2.5 mg/dl	1.39	0.8850	<.0001	2.423
Renal Failure, creatinine > 2.5 mg/dl	0.97	1.2322	<.0001	3.429
Renal Failure, requiring dialysis	2.14	1.4341	<.0001	4.196
<b>Vessels Diseased</b>				
Three Vessels Diseased	13.71	0.5666	<.0001	1.762
Left Main Diseased	3.89	0.6177	<.0001	1.855
<b>Sum of Risk Factors Squared</b>	--	-0.0424	<.0001	0.958
Intercept = 0.5521				
C Statistic = 0.817				



# Appendix 5

## 2005-2007 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 2005-2007 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 / 30-Day Deaths During or Following PCI in New York State 2005-2007 (Emergency Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
<b>Demographic</b>				
Age: Number of Years > 55	--	0.0493	<.0001	1.051
Female Gender	27.13	0.5998	<.0001	1.822
<b>Hemodynamic State</b>				
Unstable	4.09	1.4749	<.0001	4.371
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 30% or greater	77.62	--Reference--		1.000
Ejection Fraction less than 20 %	1.22	1.3015	<.0001	3.675
Ejection Fraction 20-29 %	6.23	0.8048	<.0001	2.236
Ejection Fraction 30-39 %	14.93	0.3528	0.0039	1.423
<b>Comorbidities</b>				
CHF, Current	5.11	0.8167	<.0001	2.263
Malignant Ventricular Arrhythmia	1.57	1.1943	<.0001	3.301
Renal Failure				
No Renal Failure	54.59	--Reference--		1.000
Renal Failure, creatinine 1.1 – 1.5 mg/dl	38.18	0.5091	<.0001	1.664
Renal Failure, creatinine 1.6 – 2.0 mg/dl	4.69	1.1912	<.0001	3.291
Renal Failure, creatinine > 2.0 mg/dl	1.81	1.7877	<.0001	5.976
Renal Failure, requiring dialysis	0.73	1.9525	<.0001	7.046
<b>Vessels Diseased</b>				
Three Vessels Diseased	13.57	0.3799	0.0007	1.462
Intercept = -5.2953				
Statistic = 0.831				

## NEW YORK STATE PERCUTANEOUS CORONARY INTERVENTION CENTERS

Albany Medical Center Hospital New Scotland Avenue Albany, New York 12208	Lenox Hill Hospital 100 East 77th Street New York, New York 10021	St. Catherine of Siena Hospital* 50 Route 25A Smithtown, New York 11787
Arnot Ogden Medical Center 600 Roe Avenue Elmira, New York 14905	Long Island College Hospital* 340 Henry Street Brooklyn, New York 11201	St. Elizabeth Medical Center 2209 Genesee Street Utica, New York 13413
Bellevue Hospital Center First Avenue and 27th Street New York, New York 10016	Lutheran Medical Center* 150 55th Street Brooklyn, New York 11220	St. Francis Hospital Port Washington Boulevard Roslyn, New York 11576
Beth Israel Medical Center 10 Nathan D. Perlman Place New York, New York 10003	Long Island Jewish Medical Center 270-05 76th Avenue New Hyde Park, New York 11040	St. Joseph's Hospital Health Center 301 Prospect Avenue Syracuse, New York 13203
Bronx-Lebanon Hospital Center @ Concourse Division* 1650 Grand Concourse Bronx, New York 10456	Mary Imogene Bassett Healthcare Atwell Road Cooperstown, New York 13326	St. Luke's Cornwall Hospital/ Newburgh* 70 Dubois Street Newburgh, New York 12550
Brookdale Hospital Medical Center* Linden Boulevard @ Brookdale Plaza Brooklyn, New York 11212	Maimonides Medical Center 4802 Tenth Avenue Brooklyn, New York 11219	St. Luke's Roosevelt Hospital Center 11-11 Amsterdam Avenue at 114th Street New York, New York 10025
Buffalo General Hospital 100 High Street Buffalo, New York 14203	Mercy Hospital 565 Abbott Rd Buffalo, New York 14220	St. Peter's Hospital 315 South Manning Boulevard Albany, New York 12208
Champlain Valley Physicians Hospital Medical Center 75 Beekman Street Plattsburgh, New York 12901	Millard Fillmore Hospital 3 Gates Circle Buffalo, New York 14209	SVCMC - St. Vincent's Manhattan 153 West 11th Street New York, New York 10011
Columbia Presbyterian Medical Center – NY Presbyterian 161 Fort Washington Avenue New York, New York 10032	Montefiore Medical Center Henry & Lucy Moses Division 111 East 210th Street Bronx, New York 11219	Staten Island University Hospital 475 Seaview Avenue Staten Island, New York 10305
Crouse Hospital 736 Irving Avenue Syracuse, New York 13210	Montefiore Medical Center- Weiler Hospital of A Einstein College 1825 Eastchester Road Bronx, New York 10461	Stony Brook University Medical Center Stony Brook, New York 11794-8410
Ellis Hospital 1101 Nott Street Schenectady, New York 12308	Mount Sinai Medical Center One Gustave L. Levy Place New York, New York 10019	Strong Memorial Hospital 601 Elmwood Avenue Rochester, New York 14642
Elmhurst Hospital Center* 79-01 Broadway Elmhurst, New York 11373	NYU Hospitals Center 550 First Avenue New York, New York 10016	United Health Services Wilson Hospital Division 33-57 Harrison Street Johnson City, New York 13790
Erie County Medical Center 462 Grider Street Buffalo, New York 14215	New York Methodist Hospital 506 Sixth St. Brooklyn, New York 11215	Unity Hospital of Rochester* 1555 Long Pond Road Rochester, New York 14626
Faxton-St. Luke's Healthcare (St. Luke's Division)* Box 479 Utica, New York 13503	New York Hospital Medical Center-Queens 56-45 Main Street Flushing, New York 11355	University Hospital of Brooklyn 450 Lenox Road Brooklyn, New York 11203
Glens Falls Hospital* 100 Park Street Glens Falls, New York 12801	North Shore University Hospital 300 Community Drive Manhasset, New York 11030	University Hospital-Upstate Medical University 750 East Adams Street Syracuse, New York 13210
Good Samaritan Hospital of Suffern 255 Lafayette Avenue Suffern, New York 10901	Orange Regional Medical Center (Middletown Campus)* 60 Prospect Avenue Middletown, New York 10940	Vassar Brothers Hospital 45 Reade Place Poughkeepsie, New York 12601
Good Samaritan Hospital Medical Center* 1000 Montauk Highway West Islip, New York 11795	Rochester General Hospital 1425 Portland Avenue Rochester, New York 14621	Weill-Cornell Medical Center – NY Presbyterian 525 East 68th Street New York, New York 10021
Huntington Hospital* 270 Park Ave. Huntington, New York 11743	South Nassau Communities Hospital* One Healthy Way Oceanside, New York 11572	Westchester Medical Center Grasslands Road Valhalla, New York 10595
Jamaica Hospital Medical Center* 89th Avenue and Van Wyck Expressway Jamaica, New York 11418	Southside Hospital* 301 East Main Street Bayshore, New York 11706	Winthrop University Hospital 259 First Street Mineola, New York 11501

\* Hospital performs PCI without cardiac surgery on-site.



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