

**PERCUTANEOUS
CORONARY
INTERVENTIONS
(PCI)
in
New York State
*2009 – 2011***

**New York State Department of Health
March 2014**

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MESSAGE FROM COMMISSIONER SHAH

March 2014

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 and the New York State 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 2011. 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 continuing to provide reports such as this and the Adult Cardiac Surgery Report on an annual basis. I applaud the continued high quality of care available from our New York State health care providers.

Nirav R. Shah, M.D., M.P.H.
Commissioner of Health

INTRODUCTION

Heart disease is the leading cause of death in New York State (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 160,065 patients who underwent PCI in NYS hospitals and were discharged between December 1, 2008, and November 30, 2011. The analysis period for this report includes patients discharged in December 2008 but not those discharged in December 2011. This strategy allows for more timely report publication by eliminating the need to track patients for 30-day mortality into the following calendar year. Inclusion of cases from the previous December allows for meaningful comparison of 12-month volume as found in previous reports. The single year analysis for 2011 cases includes patients discharged from December 1, 2010 through November 30, 2011. Analyses of risk-adjusted mortality rates and associated risk factors for all cases, non-emergency cases (which represent the majority of procedures) and emergency cases are included.

DEPARTMENT OF HEALTH PROGRAM

The New York State Department of Health (Department of Health) has been studying the effects of patient and treatment characteristics on outcomes for patients with heart disease for over 20 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 December 1, 2008, and November 30, 2011, provided by all 59 non-federal hospitals in NYS where PCI was performed. In total there were 160,065 PCI procedures performed during this time period. The annual number of PCI discharges was 54,882 in 2009, 54,653 in 2010, and 50,530 in 2011. For various reasons, some of these cases are excluded from analysis in this report. The reasons for exclusion and number of cases affected are described below.

At the time St. Vincent's Hospital in Manhattan closed in April of 2010, the cardiac data validation process for 2009 cases was incomplete. Because the accuracy of risk factors, procedural information and outcomes for these cases cannot be verified, the 913 cases reported by this hospital with a discharge in 2009 are excluded from all analyses. In addition, 73 cases discharged in December 2008 are excluded from the hospital level reporting. No records were reported for this hospital in 2010.

In addition, 199 records were excluded from the 2009–2011 data because they belong to patients residing outside the United States and these patients could not be followed after hospital discharge. There were an additional 32 cases excluded from analysis because each 30-day mortality can only be associated with a single PCI.

There were two additional groups of patients excluded based on clinical factors. There were 491 cases with pre-procedure cardiogenic shock excluded from analysis. Beginning with 2010 discharges, patients with hypoxic brain injury who expired under certain conditions were also excluded from analysis. This accounted for 68 cases excluded from analysis. The following two paragraphs provide further details on these clinical exclusion criteria.

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 45. 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. These 491 cases account for 0.31 percent of all PCI cases in the three years.

Patients were also excluded from analysis when very specific NYS Cardiac Data System criteria for hypoxic brain injury were met. Cases excluded for this reason all involved a pre-PCI cardiac arrest and acute MI (myocardial infarction, aka heart attack) with the patient in a coma-like neurological state prior to the PCI. In some cases, patients in this condition recover neurologically, although it may be days after the initial event before their neurological status improves. Treating the cardiac condition with PCI can be a lifesaving intervention. However, some patients will never regain consciousness because the injury to the brain caused by lack of oxygen at the time of their cardiac arrest is too severe. After consulting with physicians treating this condition, including the Cardiac Advisory Committee, the Department of Health determined that under certain circumstances these mortalities should be excluded from analyses. The specific criteria for exclusion under this policy can be found on Page 45.

NOTE ON HOSPITALS PERFORMING PCI DURING 2009–2011 PERIOD

In the 2009 - 2011 time period there were 18 hospitals approved to perform PCI without cardiac surgery on-site. Bronx Lebanon - Concourse Division performed PCI only on patients with an ST segment elevation myocardial infarction (a specific kind of heart attack also known as STEMI). The other 17 hospitals were approved to perform Primary or Elective PCI. Hospitals currently performing PCI without cardiac surgery on-site are noted on the final page of this report.

Several hospitals began performing PCI during the 2009-2011 time period. The hospital name and the month of the first PCI performed are listed below. Hospitals initially approved to perform PCI only on STEMI patients: St. Lukes Cornwall Hospital/Newburgh – February 2009; Bronx-Lebanon Hospital Center – Concourse Division – March 2009; Lutheran Medical Center – June 2009. Hospitals with initial approval not limited to STEMI patients: White Plains Hospital Center -- February 2010; Cayuga Medical Center at Ithaca – November 2010; St. Barnabas Hospital – June 2011.

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 its Bureau of Vital Statistics, the New York City Department of Health and Mental Hygiene, the Social Security Administration, and the National Death Index.

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 whether 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 (0.97 percent in-hospital/30-day in 2011) to obtain the provider's RAMR. There is no Statewide EMR or RAMR, because the statewide data is not risk-adjusted since it comprises the entire population of interest. The Statewide OMR (number of total cases divided by number of total deaths) serves as the basis for comparison for each hospital's EMR and RAMR.

Interpreting the Risk-Adjusted Mortality Rate

If the RAMR is significantly lower than the statewide mortality rate, the hospital has a better performance than the state as a whole; if the RAMR is significantly 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 are discovered, hospitals are required to correct these data and are subject to subsequent monitoring.

How This Initiative Contributes to Quality Improvement

One 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.

2011 HOSPITAL RISK-ADJUSTED MORTALITY FOR PCI

Table 1 and Figures 1 and 2 present the PCI mortality results for the 59 hospitals performing PCI in NYS in 2011 for which data could be analyzed. The table contains, for each hospital, the number of PCIs resulting in 2011 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 (typically associated with 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 (84.91 percent in 2011).

The overall in-hospital/30-day OMR for the 50,237 PCIs included in this 2011 analysis was 0.97 percent. Observed mortality rates ranged from 0.32 percent to 5.00 percent. The range in EMRs, which measure patient severity of illness, was between 0.60 percent and 1.81 percent. The RAMRs, which measure hospital performance, range from 0.37 percent to 2.84 percent. Based on confidence intervals for RAMRs, two hospitals (Albany Medical Center and Jamaica Hospital Medical Center) had RAMRs that were significantly higher than the statewide average. Two hospitals (NY Presbyterian @ Columbia Presbyterian Medical Center in Manhattan and North Shore University Hospital in Manhasset) 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 0.65 percent. The range of RAMRs was from 0.00 percent to 4.81 percent. One hospital (Maimonides Medical Center in Brooklyn) had a RAMR that was significantly lower than the statewide rate. No hospitals had RAMRs that were significantly higher 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 2011 PCI analysis is based on in-hospital/30-day mortality and excludes shock cases and hypoxic brain injury deaths, the associated mortality rates cannot be compared directly to some previous NYS publications which are based on only in-hospital mortality and include all cases.

The observed in-hospital mortality rate (not shown in Table 1) for 2011 PCI discharges was 0.56 percent for the 50,237 patients included in Table 1. For the non-emergency analysis, there were 42,654 patients with an in-hospital mortality rate of 0.28 percent.

2009-2011 HOSPITAL DATA FOR PCI

Table 2 provides the number of PCIs, the in-hospital/30-day OMR and RAMR for 2009-2011 for each of three types of PCI patients in the 59 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 2009-2011 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 5.33 percent, and the RAMRs ranged from 0.46 percent to 2.41 percent. Five hospitals (Albany Medical Center, Bronx Lebanon – Concourse Division, Brookdale Hospital Medical Center, Jamaica Hospital Medical Center, and Montefiore Medical Center Weiler Hospital in the Bronx) had RAMRs that were significantly higher than the statewide rate. Three hospitals (Maimonides Medical Center in Brooklyn, Mount Sinai Hospital in Manhattan, and North Shore University Hospital in Manhasset) had RAMRs that were 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 89.43 percent of cases for the period 2009-2011. The statewide in-hospital/30-day mortality rate for the 136,192 non-emergency cases during the 3-year period was 0.57 percent. Observed mortality rates for this group of patients ranged from 0.00 percent to 2.63 percent and the RAMRs ranged from 0.00 to 2.98 percent. Three hospitals (Albany Medical Center, Faxton - St. Luke's Healthcare in Utica, and Montefiore Medical Center Weiler Hospital in the Bronx) had RAMRs that were significantly higher than the statewide rate. Three hospitals (Lenox Hill Hospital in Manhattan, Mount Sinai Hospital in Manhattan, and NYU Hospitals Center in Manhattan) had RAMRs that were significantly lower than the statewide average 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 14.51 percent of cases for the period 2009-2011. The statewide in-hospital/30-day mortality rate for the 22,097 emergency PCI cases during the 3-year period was 3.02 percent. Observed mortality rates for this group ranged from 0.00 percent to 6.21 percent and the RAMRs ranged from 0.00 percent to 6.94 percent. One hospital (Bronx Lebanon Concourse Division) had a RAMR that was significantly above the statewide average for emergency cases. One hospital (North Shore University Hospital in Manhasset) had a RAMR that was significantly below the statewide average for emergency cases.

The observed in-hospital mortality rate (not shown in Table 2) for all 158,289 cases included in Table 2 was 0.54 percent. The in-hospital mortality rate was 0.25 percent for the 136,192 non-emergency cases and 2.32 percent for the 22,097 emergency cases. As stated above, all cases with shock and hypoxic brain injury mortalities in 2010 and 2011 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.

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 (0.97 percent in-hospital/30-day mortality for all PCI patients discharged in 2011).

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, 2011 Discharges. (Listed Alphabetically by Hospital)

Hospital	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Albany Medical Center	1090	16	1.47	0.79	1.80 *	(1.03, 2.92)	919	0.99
Arnot Ogden Med Ctr	496	3	0.60	1.02	0.57	(0.12, 1.68)	388	0.00
Bellevue Hospital Ctr	479	10	2.09	1.21	1.68	(0.80, 3.08)	365	1.03
Beth Israel Med Ctr	1538	13	0.85	0.78	1.06	(0.56, 1.81)	1423	0.76
Bronx-Lebanon-Cncourse	67	2	2.99	1.48	1.96	(0.22, 7.08)	5	0.00
Brookdale Hosp Med Ctr	209	3	1.44	1.35	1.03	(0.21, 3.02)	156	0.74
Buffalo General Hosp	1214	14	1.15	0.84	1.33	(0.73, 2.24)	1069	0.92
Cayuga Med Ctr Ithaca	159	2	1.26	1.47	0.83	(0.09, 3.00)	101	0.00
Champ.Valley Phys Hosp	748	7	0.94	1.07	0.85	(0.34, 1.75)	625	0.39
Crouse Hospital	379	6	1.58	1.20	1.28	(0.47, 2.79)	295	1.10
Ellis Hospital	509	5	0.98	0.90	1.06	(0.34, 2.46)	340	0.61
Elmhurst Hospital Ctr	448	4	0.89	1.09	0.79	(0.21, 2.04)	308	0.43
Erie County Med Ctr	159	3	1.89	1.81	1.01	(0.20, 2.96)	74	0.00
Faxton - St. Lukes	275	4	1.45	0.71	1.98	(0.53, 5.06)	231	2.25
Glens Falls Hospital	231	1	0.43	0.68	0.62	(0.01, 3.44)	167	0.00
Good Sam - Suffern	606	5	0.83	1.17	0.68	(0.22, 1.59)	448	0.85
Good Sam - West Islip	663	4	0.60	0.54	1.09	(0.29, 2.79)	587	0.84
Huntington Hospital	256	2	0.78	0.82	0.92	(0.10, 3.32)	188	1.39
Jamaica Hosp Med Ctr	220	11	5.00	1.71	2.84 *	(1.42, 5.08)	66	4.81
Lenox Hill Hospital	1812	12	0.66	0.72	0.89	(0.46, 1.55)	1704	0.47
Long Island Jewish MC	1848	10	0.54	0.78	0.68	(0.32, 1.24)	1635	0.67
Lutheran Medical Ctr	323	5	1.55	1.49	1.00	(0.32, 2.34)	260	0.75
M I Bassett Hospital	330	3	0.91	0.91	0.97	(0.19, 2.83)	237	0.00
Maimonides Medical Ctr	1076	13	1.21	1.51	0.77	(0.41, 1.32)	895	0.21 **
Mercy Hospital	693	8	1.15	0.94	1.19	(0.51, 2.34)	512	0.99
Millard Fillmore Hosp	643	5	0.78	0.85	0.88	(0.28, 2.06)	520	0.41
Montefiore - Moses	628	2	0.32	0.83	0.37	(0.04, 1.34)	503	0.23
Montefiore - Weiler	533	10	1.88	1.32	1.38	(0.66, 2.53)	404	1.30
Mount Sinai Hospital	4676	27	0.58	0.71	0.79	(0.52, 1.14)	4581	0.55
NY Hospital - Queens	676	5	0.74	0.86	0.83	(0.27, 1.94)	552	0.78
NY Methodist Hospital	1480	11	0.74	0.66	1.08	(0.54, 1.94)	1426	0.68
NYP- Columbia Presby.	3010	19	0.63	0.99	0.62 **	(0.37, 0.96)	2865	0.41
NYP- Weill Cornell	1359	21	1.55	1.26	1.18	(0.73, 1.81)	1214	0.82
NYU Hospitals Center	1116	8	0.72	0.62	1.11	(0.48, 2.19)	1064	0.47
North Shore Univ Hosp	1592	10	0.63	1.17	0.52 **	(0.25, 0.95)	1276	0.54
Orange Regional Med Ctr	539	2	0.37	0.84	0.43	(0.05, 1.54)	447	0.46
Rochester General Hosp	1608	15	0.93	0.91	1.00	(0.56, 1.64)	1307	0.63
South Nassau Com. Hosp	565	7	1.24	1.20	1.00	(0.40, 2.06)	443	0.24
Southside Hospital	559	4	0.72	0.65	1.07	(0.29, 2.75)	482	0.54
St. Barnabas Hospital	51	1	1.96	0.73	2.62	(0.03,14.57)	38	2.96
St. Catherine of Siena	253	2	0.79	0.88	0.87	(0.10, 3.14)	199	0.62
St. Elizabeth Med Ctr	886	8	0.90	0.89	0.99	(0.42, 1.94)	752	0.58
St. Francis Hospital	2641	27	1.02	1.02	0.97	(0.64, 1.41)	2457	0.69
St. Josephs Hospital	2195	20	0.91	0.94	0.94	(0.57, 1.45)	1843	0.71
St. Lukes Crnwll-Newbrg	325	5	1.54	1.04	1.44	(0.46, 3.35)	260	1.39
St. Lukes at St. Lukes	514	10	1.95	1.39	1.35	(0.65, 2.49)	434	0.86
St. Peters Hospital	782	9	1.15	1.14	0.98	(0.45, 1.87)	571	0.92
Staten Island Univ Hosp	986	11	1.12	1.06	1.02	(0.51, 1.82)	834	0.66
Strong Memorial Hosp	893	8	0.90	1.12	0.78	(0.33, 1.53)	625	0.85
UHS - Wilson Med Ctr	745	8	1.07	1.17	0.89	(0.38, 1.75)	560	0.87
Unity Hospital	238	4	1.68	1.41	1.16	(0.31, 2.96)	176	0.59
Univ. Hosp-Brooklyn	433	6	1.39	0.95	1.42	(0.52, 3.08)	347	0.69
Univ. Hosp-Brooklyn @ LICH	195	2	1.03	1.69	0.59	(0.07, 2.12)	146	0.69
Univ. Hosp-Stony Brook	1479	23	1.56	1.23	1.22	(0.77, 1.84)	1122	0.70
Univ. Hosp-Upstate	273	5	1.83	1.68	1.06	(0.34, 2.47)	165	0.95
Vassar Bros. Med Ctr	663	7	1.06	1.08	0.95	(0.38, 1.96)	495	0.48
Westchester Med Ctr	727	10	1.38	1.21	1.10	(0.53, 2.02)	557	1.02
White Plains Hospital	241	4	1.66	1.06	1.52	(0.41, 3.90)	194	1.33
Winthrop Univ. Hosp	905	5	0.55	0.95	0.56	(0.18, 1.31)	797	0.44
Statewide Total	50237	487	0.97				42654	0.65

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

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

Figure 1 In-Hospital/30-Day Risk-Adjusted Mortality Rates for PCI in New York State, 2011 Discharges (All Cases)

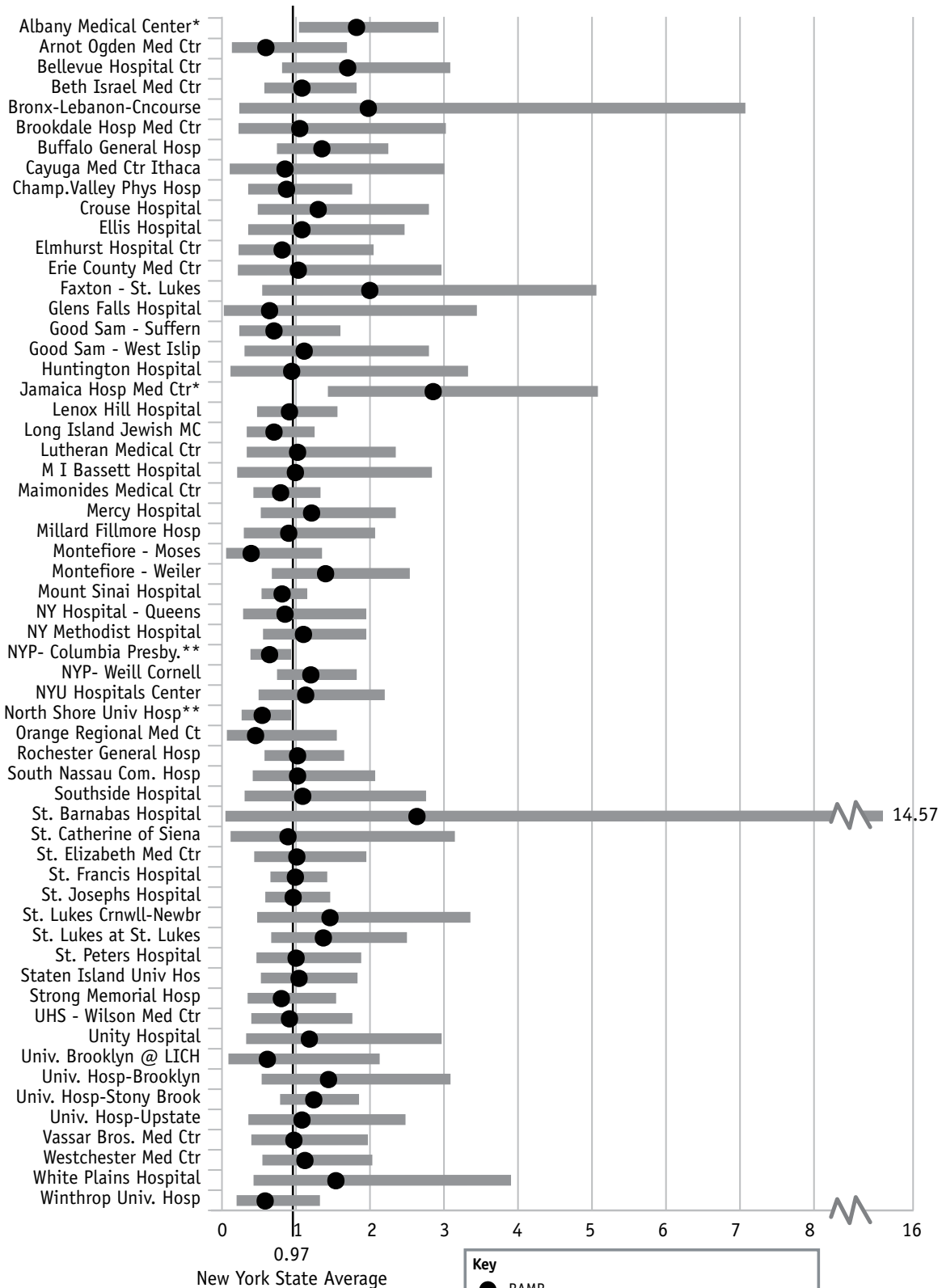
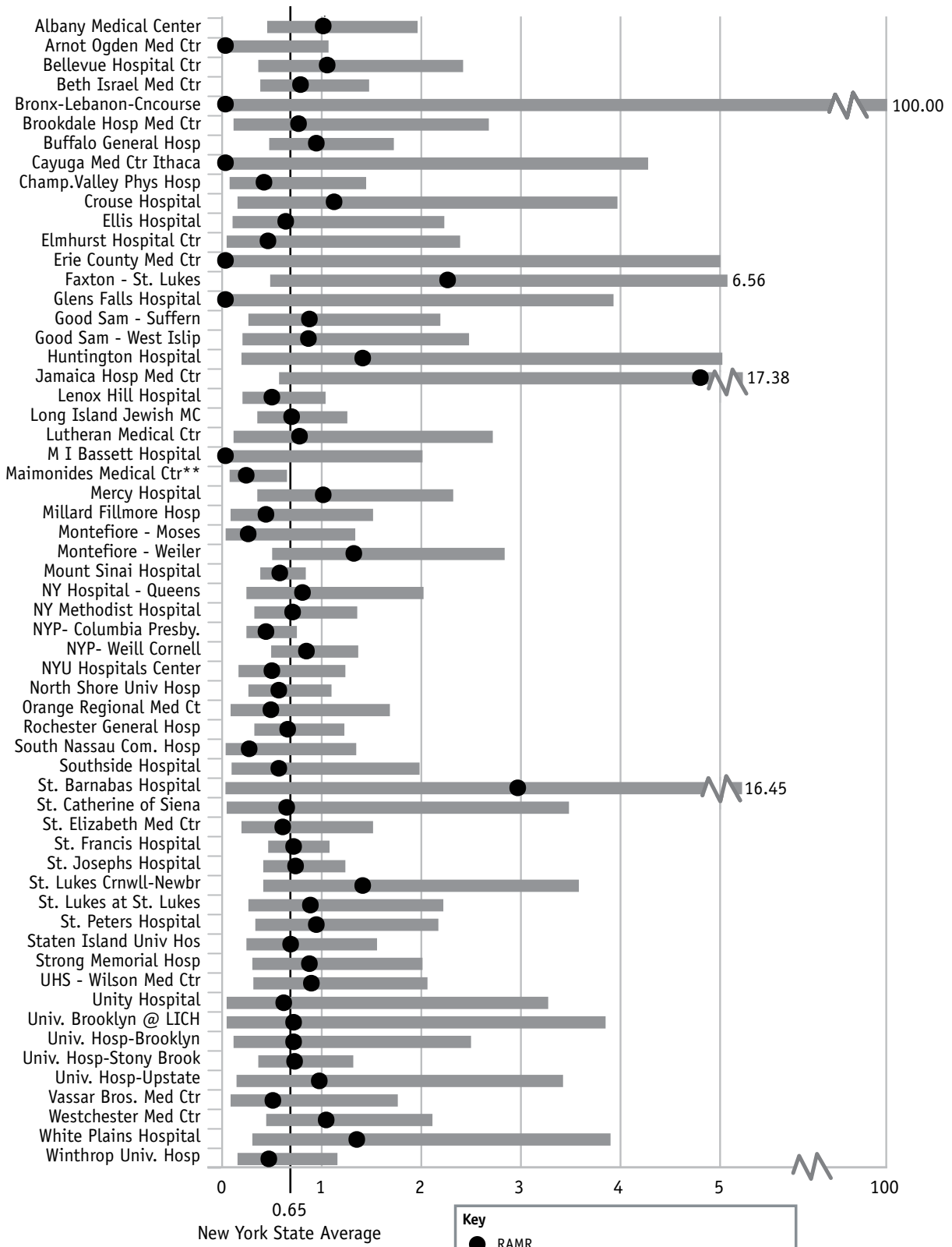


Figure 2 In-Hospital/30-Day Risk-Adjusted Mortality Rates for PCI in New York State, 2011 Discharges (Non-Emergency Cases)



Key
 ● RAMR
 ■ Potential margin of statistical error
 **RAMR significantly lower than statewide rate based on 95 percent confidence interval.

Table 2 In-Hospital/30-Day Observed and Risk-Adjusted Mortality Rates for PCI in New York State, 2009-2011 Discharges

Hospital	All Cases			Non-Emergency Cases			Emergency Cases		
	Cases	OMR	RAMR	Cases	OMR	RAMR	Cases	OMR	RAMR
Albany Medical Center	3347	1.17	1.59 *	2877	0.76	1.09 *	470	3.62	4.35
Arnot Ogden Med Ctr	1433	1.19	1.13	1092	0.55	0.65	341	3.23	4.13
Bellevue Hospital Ctr	1465	1.50	1.24	1220	0.82	0.74	245	4.90	4.42
Beth Israel Med Ctr	4941	0.63	0.78	4630	0.37	0.41	311	4.50	3.41
Bronx-Lebanon-Cncourse	169	5.33	2.08 *	10	0.00	0.00	159	5.66	6.94 *
Brookdale Hosp Med Ctr	609	2.96	1.84 *	448	1.79	0.94	161	6.21	6.28
Buffalo General Hosp	4101	0.85	1.08	3697	0.68	0.76	404	2.48	3.32
Cayuga Med Ctr Ithaca	167	1.20	0.80	108	0.00	0.00	59	3.39	3.97
Champ.Valley Phys Hosp	1895	0.74	0.64	1542	0.32	0.36	353	2.55	2.35
Crouse Hospital	1165	1.37	1.26	944	0.53	0.78	221	4.98	4.31
Ellis Hospital	1546	1.10	0.94	1041	0.48	0.54	505	2.38	3.12
Elmhurst Hospital Ctr	1133	0.62	0.52	782	0.38	0.56	351	1.14	1.27
Erie County Med Ctr	465	2.15	1.08	232	0.43	0.45	233	3.86	3.59
Faxton - St. Lukes	584	1.71	1.87	460	1.30	1.89 *	124	3.23	3.94
Glens Falls Hospital	719	0.56	0.71	540	0.19	0.43	179	1.68	2.38
Good Sam - Suffern	2037	1.37	1.16	1549	0.52	0.55	488	4.10	4.03
Good Sam - West Islip	2043	0.69	1.09	1784	0.39	0.74	259	2.70	3.75
Huntington Hospital	406	0.99	0.66	203	1.48	1.74	203	0.49	0.72
Jamaica Hosp Med Ctr	545	4.40	1.43 *	99	2.02	2.42	446	4.93	4.40
Lenox Hill Hospital	7501	0.45	0.69	7192	0.32	0.37 **	309	3.56	3.12
Long Island Jewish MC	5820	0.57	0.72	5227	0.46	0.52	593	1.52	1.86
Lutheran Medical Ctr	656	1.52	1.03	514	0.58	0.64	142	4.93	3.41
M I Bassett Hospital	1037	1.06	0.98	727	0.14	0.17	310	3.23	4.20
Maimonides Medical Ctr	3529	0.99	0.63 **	2940	0.61	0.38	589	2.89	2.24
Mercy Hospital	1935	1.55	1.28	1439	0.90	0.91	496	3.43	3.96
Millard Fillmore Hosp	2379	0.59	0.63	2012	0.30	0.33	367	2.18	2.53
Montefiore - Moses	2263	0.80	0.91	1862	0.43	0.51	401	2.49	3.27
Montefiore - Weiler	2033	1.77	1.78 *	1668	1.14	1.27 *	365	4.66	4.95
Mount Sinai Hospital	14525	0.50	0.71 **	14232	0.44	0.44 **	293	3.41	2.35
NY Hospital - Queens	2221	0.99	0.88	1825	0.60	0.67	396	2.78	2.52
NY Methodist Hospital	4172	0.67	0.86	3978	0.40	0.43	194	6.19	4.26
NYP- Columbia Presby.	8779	0.76	0.80	8331	0.60	0.53	448	3.79	2.13
NYP- Weill Cornell	4092	1.15	0.86	3659	0.96	0.67	433	2.77	1.80
NYU Hospitals Center	3429	0.41	0.59	3263	0.21	0.26 **	166	4.22	3.42
North Shore Univ Hosp	5450	0.64	0.60 **	4546	0.53	0.52	904	1.22	1.26 **
Orange Regional Med Ctr	1143	0.87	0.87	860	0.58	0.73	283	1.77	2.36
Rochester General Hosp	5326	1.15	1.16	4483	0.85	0.72	843	2.73	3.78
South Nassau Com. Hosp	1491	1.27	0.94	1177	0.68	0.57	314	3.50	3.24
Southside Hospital	1595	0.88	1.29	1368	0.51	0.83	227	3.08	4.41
St. Barnabas Hospital	51	1.96	2.41	38	2.63	2.98	13	0.00	0.00
St. Catherine of Siena	524	0.57	0.46	368	0.27	0.37	156	1.28	1.45
St. Elizabeth Med Ctr	3349	1.05	1.03	2945	0.75	0.77	404	3.22	2.76
St. Francis Hospital	8698	0.74	0.74	8171	0.55	0.44	527	3.61	2.75
St. Josephs Hospital	6657	0.99	0.95	5511	0.71	0.73	1146	2.36	2.65
St. Lukes Crnwll-Newbrg	684	1.17	0.82	528	0.76	0.64	156	2.56	2.36
St. Lukes at St. Lukes	1539	1.43	1.01	1284	0.62	0.57	255	5.49	3.40
St. Peters Hospital	2357	1.02	0.99	1764	0.68	0.75	593	2.02	2.84
Staten Island Univ Hosp	3294	0.91	0.88	2825	0.53	0.57	469	3.20	2.87
Strong Memorial Hosp	3046	1.21	1.08	2220	0.77	0.87	826	2.42	2.76
UHS - Wilson Med Ctr	2197	0.86	0.69	1703	0.41	0.43	494	2.43	2.18
Unity Hospital	1040	1.44	1.23	838	0.84	1.15	202	3.96	2.85
Univ. Hosp-Brooklyn	1782	0.95	1.01	1545	0.52	0.59	237	3.80	3.33
Univ. Hosp-Brooklyn @ LICH	536	1.49	1.06	401	0.50	0.60	135	4.44	3.84
Univ. Hosp-Stony Brook	5091	1.36	1.02	3894	0.74	0.57	1197	3.34	3.57
Univ. Hosp-Upstate	818	1.71	1.09	555	0.90	0.72	263	3.42	3.68
Vassar Bros. Med Ctr	1970	0.96	0.95	1499	0.47	0.62	471	2.55	3.14
Westchester Med Ctr	2989	1.04	0.87	2466	0.65	0.55	523	2.87	2.96
White Plains Hospital	352	1.99	1.51	266	1.50	1.34	86	3.49	3.50
Winthrop Univ. Hosp	3169	0.69	0.69	2810	0.50	0.48	359	2.23	2.19
Statewide Total	158289	0.91		136192	0.57		22097	3.02	

* 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.

2009-2011 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 2009-2011 for cardiologists in each of the 59 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 2009-2011, and/or (b) performed at least one PCI in each of the years 2009-2011. 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 2009-2011.

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, 2009-2011 Discharges

	Cases	Deaths	ALL CASES				NON-EMERGENCY	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Statewide Total	158289	1433	0.91				136192	0.57
Albany Medical Center Hospital								
##Brady S	428	2	0.47	0.67	0.63	(0.07, 2.29)	354	0.00
##Delago A	1194	11	0.92	0.52	1.61	(0.80, 2.89)	1095	1.05
El-Hajjar M	267	6	2.25	1.12	1.84	(0.67, 3.99)	208	2.05 *
#Esper D	185	3	1.62	0.86	1.72	(0.35, 5.03)	145	0.96
Houghton J	305	4	1.31	0.90	1.33	(0.36, 3.40)	225	1.04
#Macina A	25	1	4.00	1.18	3.10	(0.04,17.26)	7	0.00
Nappi A	241	2	0.83	0.72	1.05	(0.12, 3.80)	199	1.49
##Papaleo R	601	7	1.16	0.48	2.20	(0.88, 4.54)	574	1.12
#Papandrea L	22	0	0.00	2.95	0.00	(0.00, 5.14)	8	0.00
All Others	79	3	3.80	0.54	6.43 *	(1.29,18.78)	62	0.00
TOTAL	3347	39	1.17	0.67	1.59 *	(1.13, 2.17)	2877	1.09 *
Arnot-Ogden Medical Center								
Amin N	491	3	0.61	0.89	0.63	(0.13, 1.84)	378	0.00
Grella R	537	8	1.49	1.01	1.34	(0.58, 2.65)	414	1.07
Yarkoni A	395	5	1.27	0.98	1.18	(0.38, 2.76)	294	0.87
All Others	10	1	10.00	1.18	7.70	(0.10,42.86)	6	0.00
TOTAL	1433	17	1.19	0.96	1.13	(0.66, 1.80)	1092	0.65
Bellevue Hospital Center								
#Attubato M	156	5	3.21	1.31	2.22	(0.72, 5.19)	133	1.11
#Babaev A	14	1	7.14	7.64	0.85	(0.01, 4.74)	3	0.00

Table 3 *continued*

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Bellevue Hospital Center, <i>continued</i>								
##Coppola J	25	0	0.00	0.68	0.00	(0.00,19.65)	18	0.00
#Feit F	218	0	0.00	0.76	0.00	(0.00, 2.01)	190	0.00
#Iqbal S	298	3	1.01	0.99	0.92	(0.19, 2.70)	237	0.00
#Keller N	15	0	0.00	2.82	0.00	(0.00, 7.91)	4	0.00
##Slater J	36	2	5.56	1.52	3.33	(0.37,12.01)	23	0.00
##Yatskar L	214	4	1.87	1.05	1.63	(0.44, 4.16)	186	1.35
All Others	489	7	1.43	1.02	1.28	(0.51, 2.63)	426	0.99
TOTAL	1465	22	1.50	1.10	1.24	(0.78, 1.88)	1220	0.74
Beth Israel Medical Center								
##Aslam A K	411	0	0.00	0.20	0.00	(0.00, 4.04)	411	0.00
##Bhambhani G	52	0	0.00	0.21	0.00	(0.00,30.78)	52	0.00
Fox J	1483	14	0.94	0.93	0.93	(0.51, 1.56)	1384	0.53
#Gowda R	958	7	0.73	0.82	0.81	(0.33, 1.67)	883	0.46
Kanei Y	162	0	0.00	1.08	0.00	(0.00, 1.92)	120	0.00
##Kantrowitz N	9	0	0.00	0.49	0.00	(0.00,75.22)	9	0.00
#Kwan T	645	1	0.16	0.40	0.36	(0.00, 1.99)	643	0.00
##Lee P C	31	0	0.00	0.24	0.00	(0.00,45.59)	31	0.00
##Liou M	171	1	0.58	0.53	1.00	(0.01, 5.56)	170	0.76
Nakra N	243	5	2.06	1.70	1.10	(0.36, 2.58)	186	0.52
Punukollu G	227	0	0.00	0.34	0.00	(0.00, 4.34)	226	0.00
#Rosero H	390	3	0.77	0.73	0.97	(0.19, 2.82)	357	0.66
##Wilentz J	1	0	0.00	0.27	0.00	(0.00,100.0)	1	0.00
All Others	158	0	0.00	0.40	0.00	(0.00, 5.22)	157	0.00
TOTAL	4941	31	0.63	0.73	0.78	(0.53, 1.11)	4630	0.41
Bronx-Lebanon Hospital Ctr Concourse Div								
##Celaj S	19	1	5.26	1.87	2.56	(0.03,14.24)	.	.
##Johnson M	22	3	13.64	2.43	5.11 *	(1.03,14.92)	2	0.00
##Shaqra H	96	3	3.13	2.48	1.15	(0.23, 3.35)	5	0.00
All Others	32	2	6.25	2.08	2.73	(0.31, 9.87)	3	0.00
TOTAL	169	9	5.33	2.33	2.08 *	(0.95, 3.95)	10	0.00
Brookdale Hospital Medical Center								
##Afflu E	2	0	0.00	0.14	0.00	(0.00,100.0)	2	0.00
#Castillo R	285	9	3.16	1.45	1.98	(0.91, 3.77)	198	1.21
#Chadow H	321	9	2.80	1.48	1.73	(0.79, 3.28)	247	0.68
##John S	1	0	0.00	0.33	0.00	(0.00,100.0)	1	0.00
TOTAL	609	18	2.96	1.46	1.84 *	(1.09, 2.91)	448	0.94
Buffalo General Hospital								
#Conley J	1211	10	0.83	0.68	1.11	(0.53, 2.05)	1155	0.78
#Corbelli J	8	1	12.50	2.84	4.02	(0.05,22.34)	.	.
#Farhi E	716	4	0.56	0.75	0.68	(0.18, 1.75)	630	0.34
##Gelormini J	4	0	0.00	0.37	0.00	(0.00,100.0)	3	0.00
##Haq N	11	0	0.00	2.49	0.00	(0.00,12.20)	.	.
##Iyer V	198	5	2.53	1.22	1.88	(0.61, 4.39)	154	2.47 *
#Masud A	163	1	0.61	0.53	1.05	(0.01, 5.82)	149	0.00
#Morris W	985	11	1.12	0.67	1.51	(0.75, 2.71)	910	0.88
##Phadke K	21	1	4.76	5.92	0.73	(0.01, 4.08)	1	0.00
#Tandar A	68	1	1.47	1.95	0.69	(0.01, 3.82)	34	0.00

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Buffalo General Hospital, <i>continued</i>								
#Visco J	611	1	0.16	0.31	0.48	(0.01, 2.69)	586	0.45
All Others	105	0	0.00	1.03	0.00	(0.00, 3.08)	75	0.00
TOTAL	4101	35	0.85	0.72	1.08	(0.75, 1.50)	3697	0.76
Cayuga Medical Center at Ithaca								
All Others	167	2	1.20	1.36	0.80	(0.09, 2.90)	108	0.00
TOTAL	167	2	1.20	1.36	0.80	(0.09, 2.90)	108	0.00
Champlain Valley Physicians Hospital								
Bradley W	742	7	0.94	0.99	0.87	(0.35, 1.79)	605	0.55
Garrand T	552	4	0.72	1.35	0.49	(0.13, 1.25)	447	0.00
Gauthier E	599	3	0.50	0.86	0.53	(0.11, 1.56)	490	0.43
##Slotwiner A	2	0	0.00	1.49	0.00	(0.00,100.0)	.	.
TOTAL	1895	14	0.74	1.05	0.64	(0.35, 1.07)	1542	0.36
Crouse Hospital								
#Battaglia J	688	6	0.87	0.82	0.97	(0.36, 2.12)	564	0.74
#George A	476	10	2.10	1.26	1.52	(0.73, 2.80)	379	0.85
All Others	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
TOTAL	1165	16	1.37	1.00	1.26	(0.72, 2.04)	944	0.78
Ellis Hospital								
Cospito P	372	5	1.34	1.01	1.21	(0.39, 2.83)	244	0.45
Jordan M	313	3	0.96	1.22	0.71	(0.14, 2.09)	198	0.76
Parkes R	459	7	1.53	1.03	1.35	(0.54, 2.78)	314	0.33
Weitz S	247	1	0.40	1.37	0.27	(0.00, 1.50)	140	0.70
All Others	155	1	0.65	0.55	1.06	(0.01, 5.90)	145	0.78
TOTAL	1546	17	1.10	1.07	0.94	(0.55, 1.50)	1041	0.54
Elmhurst Hospital Center								
#Barman N	36	2	5.56	3.39	1.49	(0.17, 5.39)	9	0.00
#Kamran M	914	4	0.44	0.83	0.48	(0.13, 1.24)	695	0.63
#Kim M	42	0	0.00	2.13	0.00	(0.00, 3.73)	6	0.00
##Pyo R	25	1	4.00	2.86	1.28	(0.02, 7.10)	2	0.00
##Serrano-Gomez C	7	0	0.00	0.29	0.00	(0.00,100.0)	7	0.00
##Yatskar L	109	0	0.00	1.71	0.00	(0.00, 1.79)	63	0.00
TOTAL	1133	7	0.62	1.08	0.52	(0.21, 1.07)	782	0.56
Erie County Medical Center								
Dashkoff N	357	5	1.40	1.68	0.76	(0.25, 1.78)	204	0.50
#Emerson R	1	0	0.00	0.36	0.00	(0.00,100.0)	.	.
##Iyer V	46	0	0.00	1.93	0.00	(0.00, 3.76)	14	0.00
##Phadke K	9	0	0.00	3.80	0.00	(0.00, 9.77)	5	0.00
All Others	52	5	9.62	2.32	3.78 *	(1.22, 8.82)	9	0.00
TOTAL	465	10	2.15	1.81	1.08	(0.52, 1.99)	232	0.45
Faxton-St. Lukes Hlthcare- St.Lukes Div								
#Kelberman M	16	1	6.25	1.59	3.58	(0.05,19.90)	9	0.00
#MacIsaac H	41	3	7.32	1.88	3.54	(0.71,10.35)	22	4.91
#Mathew T C	323	1	0.31	0.70	0.40	(0.01, 2.23)	265	0.67
#Nassif R	150	3	2.00	0.51	3.57	(0.72,10.44)	132	4.57 *

Table 3 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Faxton-St. Lukes Hlthcare- St.Lukes Div, continued								
#Patel A	14	1	7.14	1.57	4.14	(0.05,23.04)	5	0.00
#Sassower M	25	0	0.00	1.68	0.00	(0.00, 7.96)	16	0.00
#Varma P	14	1	7.14	1.08	6.02	(0.08,33.48)	11	4.09
All Others	1	0	0.00	0.83	0.00	(0.00,100.0)	.	.
TOTAL	584	10	1.71	0.83	1.87	(0.90, 3.45)	460	1.89 *
Glens Falls Hospital								
Bashir I	381	2	0.52	0.68	0.70	(0.08, 2.54)	291	0.79
##Brady S	1	0	0.00	1.15	0.00	(0.00,100.0)	.	.
##Delago A	1	0	0.00	0.89	0.00	(0.00,100.0)	.	.
Hogan R	325	1	0.31	0.66	0.42	(0.01, 2.35)	248	0.00
##Papaleo R	11	1	9.09	3.57	2.32	(0.03,12.90)	1	0.00
TOTAL	719	4	0.56	0.72	0.71	(0.19, 1.81)	540	0.43
Good Samaritan Hosp - Suffern								
#Brogno D	516	5	0.97	0.93	0.94	(0.30, 2.20)	438	0.51
Hirsch C	279	3	1.08	0.81	1.21	(0.24, 3.53)	230	0.55
Kernis S	272	7	2.57	1.43	1.64	(0.66, 3.37)	166	0.76
Kovar L	336	0	0.00	0.88	0.00	(0.00, 1.13)	284	0.00
##Pyo R	38	1	2.63	0.80	3.01	(0.04,16.73)	35	2.18
#Shapira S	57	0	0.00	0.33	0.00	(0.00,17.75)	56	0.00
All Others	539	12	2.23	1.40	1.45	(0.75, 2.54)	340	0.91
TOTAL	2037	28	1.37	1.08	1.16	(0.77, 1.68)	1549	0.55
Good Samaritan Hosp Med Ctr- West Islip								
##Caselnova R	483	2	0.41	0.52	0.73	(0.08, 2.63)	439	0.40
##Deutsch E	100	3	3.00	0.91	2.99	(0.60, 8.75)	79	1.77
##Hormozi S	473	3	0.63	0.58	0.99	(0.20, 2.89)	425	0.44
##Lee P J	472	4	0.85	0.51	1.50	(0.40, 3.85)	417	0.99
##Patel R B	122	0	0.00	0.74	0.00	(0.00, 3.71)	85	0.00
##Reich D	393	2	0.51	0.57	0.82	(0.09, 2.95)	339	1.20
TOTAL	2043	14	0.69	0.57	1.09	(0.59, 1.82)	1784	0.74
Huntington Hospital								
##Bagga R	144	1	0.69	1.43	0.44	(0.01, 2.47)	65	1.52
##Caselnova R	5	0	0.00	0.90	0.00	(0.00,73.91)	1	0.00
##Patcha R	80	0	0.00	1.42	0.00	(0.00, 2.95)	37	0.00
##Polena S	91	2	2.20	0.97	2.06	(0.23, 7.43)	65	3.70
##Schwartz R	3	0	0.00	2.60	0.00	(0.00,42.84)	.	.
##Strizik B	83	1	1.20	1.55	0.71	(0.01, 3.94)	35	0.00
TOTAL	406	4	0.99	1.35	0.66	(0.18, 1.70)	203	1.74
Jamaica Hospital Medical Center								
#Gade C	1	0	0.00	5.60	0.00	(0.00,59.64)	.	.
#Jain S	164	7	4.27	3.35	1.16	(0.47, 2.40)	42	2.81
#Kaki A	13	2	15.38	1.85	7.57	(0.85,27.33)	1	0.00
#Kukar A	16	1	6.25	1.78	3.20	(0.04,17.79)	.	.
#Lasic Z	157	8	5.10	2.69	1.73	(0.74, 3.40)	26	6.44
#Puma A	12	2	16.67	1.68	9.04 *	(1.02,32.64)	.	.
#Raza J	147	4	2.72	2.89	0.86	(0.23, 2.20)	30	0.00
#Soffer D	18	0	0.00	1.42	0.00	(0.00,13.10)	.	.

Table 3 *continued*

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Jamaica Hospital Medical Center, <i>continued</i>								
#Yang Y	17	0	0.00	1.95	0.00	(0.00,10.11)	.	.
TOTAL	545	24	4.40	2.81	1.43 *	(0.91, 2.12)	99	2.42
Lenox Hill Hospital								
#Aboufares A	254	1	0.39	0.67	0.54	(0.01, 2.98)	246	0.00
Cohen H	431	2	0.46	0.65	0.65	(0.07, 2.34)	405	0.32
##Dominguez-Echeva	157	0	0.00	0.41	0.00	(0.00, 5.15)	156	0.00
##Fernaine G	100	0	0.00	0.53	0.00	(0.00, 6.36)	98	0.00
#Gade C	89	0	0.00	0.41	0.00	(0.00, 9.16)	85	0.00
Garratt K	543	3	0.55	0.76	0.67	(0.13, 1.95)	496	0.21
##Gustafson G	36	0	0.00	0.52	0.00	(0.00,17.81)	36	0.00
Iyer S	309	3	0.97	0.65	1.36	(0.27, 3.99)	285	1.10
#Jain S	354	2	0.56	0.77	0.67	(0.07, 2.41)	343	0.51
#Kaki A	130	0	0.00	0.69	0.00	(0.00, 3.70)	110	0.00
##Kesanakurthy S	322	1	0.31	0.39	0.73	(0.01, 4.04)	317	0.48
#Kukar A	272	2	0.74	0.82	0.81	(0.09, 2.94)	259	0.32
#Lasic Z	339	0	0.00	0.68	0.00	(0.00, 1.45)	331	0.00
Oboler L	15	0	0.00	0.46	0.00	(0.00,48.56)	14	0.00
#Palkhiwala S	38	0	0.00	0.20	0.00	(0.00,44.67)	38	0.00
##Papadakos S	407	3	0.74	0.39	1.74	(0.35, 5.09)	403	1.10
#Parikh M	656	1	0.15	0.63	0.22	(0.00, 1.22)	644	0.16
#Puma A	263	1	0.38	0.38	0.91	(0.01, 5.08)	253	0.70
#Raza J	413	3	0.73	0.69	0.96	(0.19, 2.79)	405	0.40
Reimers C	891	3	0.34	0.53	0.58	(0.12, 1.69)	867	0.44
Ruiz C	6	0	0.00	0.36	0.00	(0.00,100.0)	6	0.00
#Soffer D	228	1	0.44	0.42	0.96	(0.01, 5.32)	222	0.60
##Stathopoulos I	85	1	1.18	0.66	1.63	(0.02, 9.09)	83	1.04
##Wilentz J	265	0	0.00	0.67	0.00	(0.00, 1.88)	240	0.00
#Yang Y	319	2	0.63	0.55	1.05	(0.12, 3.77)	308	0.75
All Others	579	5	0.86	0.66	1.19	(0.38, 2.78)	542	0.27
TOTAL	7501	34	0.45	0.60	0.69	(0.48, 0.96)	7192	0.37 **
Long Island Jewish Medical Center								
#Arkonac B	577	7	1.21	1.09	1.01	(0.41, 2.09)	481	0.79
##Bagga R	202	1	0.50	0.46	0.98	(0.01, 5.46)	199	0.64
#Boutis L	27	1	3.70	4.57	0.74	(0.01, 4.11)	5	0.00
##Deutsch E	3	0	0.00	0.71	0.00	(0.00,100.0)	3	0.00
#Dhama B	370	2	0.54	0.67	0.73	(0.08, 2.64)	361	0.48
##Friedman G H	177	1	0.56	0.60	0.86	(0.01, 4.79)	169	0.73
#Green S	23	0	0.00	2.38	0.00	(0.00, 6.11)	3	0.00
##Grunwald A	195	0	0.00	0.82	0.00	(0.00, 2.08)	186	0.00
##Hameedi A	740	0	0.00	0.20	0.00	(0.00, 2.29)	739	0.00
#Jauhar R	1478	8	0.54	0.66	0.75	(0.32, 1.48)	1305	0.60
#Kaplan B	1513	9	0.59	0.73	0.74	(0.34, 1.41)	1368	0.46
#Katz S	33	0	0.00	1.85	0.00	(0.00, 5.47)	7	0.00
##Koss J	247	3	1.21	0.75	1.47	(0.30, 4.31)	231	1.26
#Lee A	26	1	3.85	2.81	1.25	(0.02, 6.94)	3	0.00
#Marchant D	19	0	0.00	1.95	0.00	(0.00, 9.01)	5	0.00
#Musso J	12	0	0.00	0.21	0.00	(0.00,100.0)	12	0.00
#Ong L Y	10	0	0.00	1.82	0.00	(0.00,18.38)	3	0.00
##Polena S	14	0	0.00	1.13	0.00	(0.00,21.19)	14	0.00

Table 3 *continued*

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Long Island Jewish Medical Center, <i>continued</i>								
#Rutkin B	19	0	0.00	3.80	0.00	(0.00, 4.63)	1	0.00
##Strizik B	11	0	0.00	0.75	0.00	(0.00,40.77)	11	0.00
#Suleman J	3	0	0.00	0.18	0.00	(0.00,100.0)	3	0.00
All Others	121	0	0.00	0.58	0.00	(0.00, 4.75)	118	0.00
TOTAL	5820	33	0.57	0.72	0.72	(0.49, 1.01)	5227	0.52
Lutheran Medical Center								
##Dominguez-Echeva	63	0	0.00	0.87	0.00	(0.00, 6.13)	61	0.00
##Fernaïne G	441	5	1.13	0.93	1.11	(0.36, 2.59)	376	0.97
##Hoyek W	56	2	3.57	1.39	2.34	(0.26, 8.45)	35	0.00
#Kandov R	27	2	7.41	4.82	1.40	(0.16, 5.06)	12	0.00
##Lee P C	42	0	0.00	1.78	0.00	(0.00, 4.47)	22	0.00
##Pyo R	4	0	0.00	2.81	0.00	(0.00,29.77)	.	.
#Royzman R	23	1	4.35	5.41	0.73	(0.01, 4.07)	8	0.00
TOTAL	656	10	1.52	1.35	1.03	(0.49, 1.90)	514	0.64
M I Bassett Hospital								
Clark V	218	2	0.92	0.96	0.87	(0.10, 3.14)	148	0.00
McNulty P	263	3	1.14	0.93	1.11	(0.22, 3.25)	190	0.00
Menzies D	421	4	0.95	0.98	0.88	(0.24, 2.26)	309	0.00
All Others	135	2	1.48	1.17	1.15	(0.13, 4.17)	80	1.56
TOTAL	1037	11	1.06	0.99	0.98	(0.49, 1.75)	727	0.17
Maimonides Medical Center								
Ayzenberg S	501	7	1.40	1.88	0.68	(0.27, 1.40)	366	0.39
Borgen E	733	9	1.23	1.77	0.63	(0.29, 1.20)	566	0.47
Frankel R	604	4	0.66	1.06	0.57	(0.15, 1.46)	559	0.51
Friedman M	289	3	1.04	1.68	0.56	(0.11, 1.64)	198	0.00
##Kantrowitz N	23	0	0.00	1.72	0.00	(0.00, 8.45)	23	0.00
Malik B	913	8	0.88	1.37	0.58	(0.25, 1.15)	776	0.24
Shani J	447	4	0.89	0.90	0.91	(0.24, 2.33)	433	0.52
All Others	19	0	0.00	0.27	0.00	(0.00,66.28)	19	0.00
TOTAL	3529	35	0.99	1.43	0.63 **	(0.44, 0.88)	2940	0.38
Mercy Hospital								
#Calandra S	423	2	0.47	0.92	0.47	(0.05, 1.69)	335	0.00
#Emerson R	257	7	2.72	1.28	1.94	(0.78, 3.99)	159	1.71
##Gelormini J	457	11	2.41	1.26	1.74	(0.87, 3.11)	349	1.69 *
##Haq N	315	2	0.63	0.89	0.65	(0.07, 2.34)	249	0.36
Meltser H	388	4	1.03	1.11	0.84	(0.23, 2.16)	280	0.00
All Others	95	4	4.21	1.32	2.91	(0.78, 7.45)	67	2.91 *
TOTAL	1935	30	1.55	1.10	1.28	(0.86, 1.83)	1439	0.91
Millard Fillmore Hospital								
#Calandra S	27	0	0.00	0.21	0.00	(0.00,57.84)	27	0.00
#Conley J	3	0	0.00	1.80	0.00	(0.00,62.03)	.	.
#Corbelli J	920	7	0.76	0.78	0.89	(0.36, 1.83)	820	0.39
#Farhi E	5	0	0.00	1.72	0.00	(0.00,38.96)	.	.
##Gelormini J	106	0	0.00	0.41	0.00	(0.00, 7.60)	103	0.00
##Haq N	43	0	0.00	1.32	0.00	(0.00, 5.89)	21	0.00
##Iyer V	12	0	0.00	3.07	0.00	(0.00, 9.08)	2	0.00

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Millard Fillmore Hospital, continued								
#Masud A	340	1	0.29	0.79	0.34	(0.00, 1.88)	308	0.00
#Morris W	13	0	0.00	2.04	0.00	(0.00,12.63)	.	.
##Phadke K	885	5	0.56	0.91	0.57	(0.18, 1.33)	724	0.31
#Tandar A	10	0	0.00	3.76	0.00	(0.00, 8.89)	.	.
#Visco J	2	0	0.00	1.02	0.00	(0.00,100.0)	.	.
All Others	13	1	7.69	0.96	7.29	(0.10,40.55)	7	13.02
TOTAL	2379	14	0.59	0.85	0.63	(0.34, 1.06)	2012	0.33
Montefiore Medical Center - Moses								
##Celaj S	344	4	1.16	0.75	1.40	(0.38, 3.60)	277	0.45
#Greenberg M	644	4	0.62	0.80	0.71	(0.19, 1.81)	525	0.23
##Grose R	28	0	0.00	0.72	0.00	(0.00,16.58)	26	0.00
##Johnson M	185	0	0.00	0.65	0.00	(0.00, 2.77)	155	0.00
#Menegus M	659	9	1.37	1.02	1.23	(0.56, 2.33)	492	0.96
##Shaqra H	236	0	0.00	0.60	0.00	(0.00, 2.37)	224	0.00
##Srinivas V	3	0	0.00	1.19	0.00	(0.00,93.35)	2	0.00
All Others	164	1	0.61	0.45	1.23	(0.02, 6.86)	161	0.89
TOTAL	2263	18	0.80	0.80	0.91	(0.54, 1.44)	1862	0.51
Montefiore Medical Center - Weiler								
##Celaj S	1	0	0.00	0.22	0.00	(0.00,100.0)	1	0.00
##Gotsis W	433	7	1.62	0.73	2.01	(0.81, 4.14)	374	0.98
Monrad E	542	9	1.66	1.02	1.48	(0.68, 2.81)	432	0.82
##Shaqra H	4	0	0.00	0.84	0.00	(0.00,99.70)	3	0.00
##Silverman G	327	8	2.45	0.76	2.94 *	(1.27, 5.80)	266	2.63 *
Sokol S	270	7	2.59	0.86	2.73 *	(1.10, 5.63)	216	2.47 *
##Srinivas V	421	5	1.19	1.09	0.99	(0.32, 2.32)	352	0.94
All Others	35	0	0.00	0.84	0.00	(0.00,11.37)	24	0.00
TOTAL	2033	36	1.77	0.91	1.78 *	(1.25, 2.46)	1668	1.27 *
Mount Sinai Hospital								
#Barman N	187	0	0.00	1.46	0.00	(0.00, 1.22)	167	0.00
#Dangas G	147	0	0.00	1.23	0.00	(0.00, 1.84)	136	0.00
##Fernaine G	286	1	0.35	0.57	0.56	(0.01, 3.11)	286	0.37
##Hameedi A	9	0	0.00	0.22	0.00	(0.00,100.0)	9	0.00
##Hasan C	401	0	0.00	0.28	0.00	(0.00, 2.93)	400	0.00
#Jayasundera T	7	0	0.00	0.82	0.00	(0.00,57.99)	7	0.00
#Kamran M	70	1	1.43	0.45	2.91	(0.04,16.17)	70	1.73
##Kesanakurthy S	69	0	0.00	0.20	0.00	(0.00,24.73)	69	0.00
#Kim M	1880	18	0.96	0.90	0.97	(0.58, 1.54)	1830	0.52
Kini A	3063	9	0.29	0.57	0.47 **	(0.22, 0.90)	2979	0.33
Krishnan P	317	2	0.63	0.89	0.65	(0.07, 2.34)	296	0.38
##Lee P C	100	1	1.00	0.51	1.79	(0.02, 9.97)	100	1.16
Moreno P	1382	3	0.22	0.55	0.36	(0.07, 1.04)	1364	0.17
##Nguyen T	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
#Palkhiwala S	684	3	0.44	0.44	0.91	(0.18, 2.66)	683	0.54
##Pyo R	222	3	1.35	0.66	1.86	(0.37, 5.42)	213	1.71
##Serrano-Gomez C	49	0	0.00	0.31	0.00	(0.00,22.01)	49	0.00
Sharma S	4277	23	0.54	0.63	0.77	(0.49, 1.16)	4253	0.50
##Shih A T	24	0	0.00	0.36	0.00	(0.00,38.99)	22	0.00
#Simon C	30	1	3.33	0.99	3.07	(0.04,17.11)	30	2.12

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Mount Sinai Hospital, <i>continued</i>								
#Suleman J	807	2	0.25	0.53	0.43	(0.05, 1.54)	804	0.28
Sweeny J	231	3	1.30	0.76	1.57	(0.31, 4.58)	210	0.91
All Others	282	3	1.06	1.03	0.94	(0.19, 2.75)	254	0.65
TOTAL	14525	73	0.50	0.65	0.71 **	(0.55, 0.89)	14232	0.44 **
NY Hospital Medical Ctr of Queens								
##Friedman G H	60	1	1.67	1.57	0.97	(0.01, 5.39)	43	0.00
##Grunwald A	64	0	0.00	1.54	0.00	(0.00, 3.40)	44	0.00
##Gustafson G	420	5	1.19	0.83	1.31	(0.42, 3.06)	379	0.72
##Hameedi A	5	0	0.00	0.14	0.00	(0.00,100.0)	5	0.00
##Hasan C	1	0	0.00	0.13	0.00	(0.00,100.0)	1	0.00
##Koss J	38	1	2.63	1.38	1.73	(0.02, 9.64)	26	0.00
Moustakakis E	343	3	0.87	1.42	0.56	(0.11, 1.64)	207	0.71
##Papadakos S	208	4	1.92	2.17	0.81	(0.22, 2.07)	168	0.90
Park C	466	3	0.64	0.76	0.77	(0.16, 2.26)	376	0.79
All Others	616	5	0.81	0.65	1.14	(0.37, 2.66)	576	0.54
TOTAL	2221	22	0.99	1.03	0.88	(0.55, 1.33)	1825	0.67
NY Methodist Hospital								
##Afflu E	21	0	0.00	0.30	0.00	(0.00,53.52)	21	0.00
##Aslam A K	184	1	0.54	0.21	2.31	(0.03,12.88)	181	1.51
#Badero O	148	0	0.00	0.31	0.00	(0.00, 7.25)	148	0.00
##Bhambhani G	274	0	0.00	0.24	0.00	(0.00, 5.08)	274	0.00
Brener S	631	11	1.74	1.65	0.96	(0.48, 1.72)	525	0.36
Chokshi A	241	0	0.00	0.40	0.00	(0.00, 3.51)	241	0.00
##Dominguez-Echeva	41	0	0.00	0.30	0.00	(0.00,26.92)	41	0.00
#Haq S	151	1	0.66	0.71	0.85	(0.01, 4.71)	149	0.56
##Hoyek W	306	1	0.33	0.42	0.71	(0.01, 3.98)	305	0.47
##John S	17	0	0.00	0.40	0.00	(0.00,48.91)	17	0.00
##Kesanakurthy S	1	0	0.00	0.22	0.00	(0.00,100.0)	1	0.00
Rouvelas P	211	2	0.95	0.57	1.52	(0.17, 5.50)	210	0.89
Sacchi T	1033	5	0.48	0.73	0.60	(0.19, 1.41)	961	0.21
Shaknovich A	247	1	0.40	0.59	0.63	(0.01, 3.50)	246	0.40
##Slotwiner A	2	0	0.00	1.08	0.00	(0.00,100.0)	2	0.00
All Others	664	6	0.90	0.58	1.41	(0.51, 3.07)	656	0.84
TOTAL	4172	28	0.67	0.71	0.86	(0.57, 1.25)	3978	0.43
NYP Hospital - Columbia Presbyterian								
#Bliagos D	132	1	0.76	0.97	0.71	(0.01, 3.97)	128	0.54
#Brognio D	37	1	2.70	0.33	7.52	(0.10,41.87)	37	5.93
Collins M	572	7	1.22	1.14	0.98	(0.39, 2.02)	547	0.62
#Dangas G	241	1	0.41	1.34	0.28	(0.00, 1.57)	214	0.33
##Dominguez-Echeva	171	0	0.00	0.56	0.00	(0.00, 3.48)	170	0.00
##Grose R	205	1	0.49	0.68	0.65	(0.01, 3.62)	197	0.00
#Haq S	14	0	0.00	0.16	0.00	(0.00,100.0)	14	0.00
#Hjemdahl-Monsen C	39	1	2.56	1.03	2.26	(0.03,12.59)	33	0.00
#Irobunda C	120	1	0.83	0.47	1.63	(0.02, 9.08)	119	0.96
##Johnson M	125	1	0.80	0.51	1.42	(0.02, 7.93)	123	0.87
##Kalapatapu K	50	0	0.00	0.61	0.00	(0.00,11.03)	49	0.00
##Kesanakurthy S	728	8	1.10	0.75	1.34	(0.58, 2.64)	717	1.00
Kirtane A	475	3	0.63	0.77	0.75	(0.15, 2.20)	442	0.52

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
NYP Hospital - Columbia Presbyterian, <i>continued</i>								
#Kodali S	451	10	2.22	1.05	1.92 *	(0.92, 3.54)	417	1.40 *
Mehran R	97	2	2.06	1.46	1.29	(0.14, 4.64)	83	0.92
#Moses J	1554	4	0.26	0.54	0.44	(0.12, 1.12)	1552	0.27
#Parikh M	329	0	0.00	0.80	0.00	(0.00, 1.27)	314	0.00
#Pucillo A	24	0	0.00	0.54	0.00	(0.00,25.97)	23	0.00
Rabbani L	592	3	0.51	1.01	0.46	(0.09, 1.33)	532	0.00 **
Singh V	1324	5	0.38	0.53	0.64	(0.21, 1.50)	1306	0.51
##Stathopoulos I	13	0	0.00	0.66	0.00	(0.00,38.77)	13	0.00
#Weinberger J	15	0	0.00	0.26	0.00	(0.00,85.51)	15	0.00
Weisz G	339	2	0.59	1.14	0.47	(0.05, 1.70)	300	0.49
All Others	1132	16	1.41	1.55	0.83	(0.48, 1.35)	986	0.54
TOTAL	8779	67	0.76	0.87	0.80	(0.62, 1.02)	8331	0.53
NYP Hospital - Weill Cornell								
#Aboufares A	21	0	0.00	0.53	0.00	(0.00,29.94)	21	0.00
Bergman G	647	5	0.77	1.13	0.62	(0.20, 1.46)	576	0.65
##Charney R	318	1	0.31	0.82	0.35	(0.00, 1.95)	313	0.21
Feldman D	598	7	1.17	1.51	0.70	(0.28, 1.45)	512	0.68
Iacovone F	48	0	0.00	0.50	0.00	(0.00,13.93)	47	0.00
##Kesanakurthy S	288	3	1.04	0.46	2.06	(0.41, 6.03)	285	1.40
##Messinger D	168	3	1.79	1.29	1.26	(0.25, 3.69)	164	0.84
Minutello R	714	10	1.40	1.28	0.99	(0.48, 1.83)	600	0.66
#Moses J	86	0	0.00	0.48	0.00	(0.00, 8.02)	86	0.00
Moussa I	163	2	1.23	2.33	0.48	(0.05, 1.73)	126	0.00
##Slotwiner A	244	4	1.64	2.09	0.72	(0.19, 1.83)	202	0.81
##Wilentz J	6	0	0.00	0.25	0.00	(0.00,100.0)	6	0.00
Wong S	686	9	1.31	0.98	1.22	(0.56, 2.32)	637	0.86
All Others	105	3	2.86	1.76	1.48	(0.30, 4.32)	84	0.69
TOTAL	4092	47	1.15	1.22	0.86	(0.63, 1.14)	3659	0.67
NYU Hospitals Center								
#Attubato M	1048	6	0.57	0.78	0.67	(0.24, 1.45)	1008	0.25
#Babaev A	548	1	0.18	0.41	0.41	(0.01, 2.28)	540	0.28
##Coppola J	98	1	1.02	0.60	1.55	(0.02, 8.60)	96	0.00
#Feit F	642	3	0.47	0.50	0.85	(0.17, 2.47)	595	0.23
#Iqbal S	27	0	0.00	0.88	0.00	(0.00,14.12)	19	0.00
#Jayasundera T	301	0	0.00	0.28	0.00	(0.00, 4.02)	301	0.00
#Keller N	8	0	0.00	4.48	0.00	(0.00, 9.33)	1	0.00
##Liou M	76	0	0.00	0.27	0.00	(0.00,16.33)	76	0.00
##Nguyen T	20	0	0.00	0.22	0.00	(0.00,74.97)	20	0.00
##Serrano-Gomez C	13	0	0.00	0.23	0.00	(0.00,100.0)	13	0.00
##Shih A T	2	0	0.00	0.35	0.00	(0.00,100.0)	2	0.00
##Slater J	351	2	0.57	1.09	0.47	(0.05, 1.71)	316	0.40
##Stathopoulos I	2	0	0.00	0.31	0.00	(0.00,100.0)	2	0.00
#Weinberger J	9	0	0.00	0.46	0.00	(0.00,81.17)	9	0.00
##Yatskar L	108	0	0.00	0.56	0.00	(0.00, 5.57)	100	0.00
All Others	176	1	0.57	0.64	0.81	(0.01, 4.51)	165	0.99
TOTAL	3429	14	0.41	0.63	0.59	(0.32, 0.99)	3263	0.26 **

Table 3 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
North Shore University Hospital								
#Arkonac B	45	2	4.44	4.95	0.82	(0.09, 2.96)	4	0.00
##Bagga R	2	0	0.00	0.12	0.00	(0.00,100.0)	2	0.00
#Boutis L	574	2	0.35	1.48	0.21 **	(0.02, 0.77)	423	0.32
##Caselnova R	46	0	0.00	0.49	0.00	(0.00,14.71)	46	0.00
##Deutsch E	35	1	2.86	0.36	7.27	(0.10,40.46)	35	4.71
#Dhama B	177	2	1.13	0.72	1.43	(0.16, 5.18)	174	0.89
#Freeman J	11	0	0.00	1.84	0.00	(0.00,16.51)	10	0.00
##Friedman G H	153	0	0.00	0.50	0.00	(0.00, 4.40)	145	0.00
##Gambino A	20	1	5.00	0.27	17.11	(0.22,95.21)	20	12.44
#Green S	477	3	0.63	1.14	0.50	(0.10, 1.47)	378	0.30
##Grunwald A	121	0	0.00	0.43	0.00	(0.00, 6.40)	115	0.00
##Gustafson G	10	0	0.00	0.46	0.00	(0.00,72.02)	10	0.00
##Hormozi S	102	1	0.98	0.47	1.89	(0.02,10.52)	99	1.58
#Jauhar R	24	0	0.00	2.12	0.00	(0.00, 6.58)	1	0.00
#Kaplan B	32	0	0.00	3.30	0.00	(0.00, 3.16)	2	0.00
#Katz S	449	4	0.89	1.21	0.67	(0.18, 1.71)	352	0.00
##Koss J	92	0	0.00	1.09	0.00	(0.00, 3.32)	80	0.00
#Lederman S	19	0	0.00	0.38	0.00	(0.00,46.38)	19	0.00
#Lee A	517	5	0.97	1.09	0.81	(0.26, 1.88)	394	0.54
##Lee P J	18	2	11.11	0.60	17.00 *	(1.91,61.36)	18	8.81 *
#Marchant D	218	0	0.00	1.06	0.00	(0.00, 1.44)	140	0.00
#Ong L Y	660	2	0.30	0.79	0.35	(0.04, 1.26)	581	0.37
##Papadakos S	141	0	0.00	0.60	0.00	(0.00, 3.98)	138	0.00
##Patcha R	151	1	0.66	0.54	1.12	(0.01, 6.24)	146	0.83
##Patel R B	5	0	0.00	0.53	0.00	(0.00,100.0)	5	0.00
##Polena S	104	2	1.92	0.68	2.59	(0.29, 9.35)	104	1.55
##Rehman A	6	0	0.00	0.42	0.00	(0.00,100.0)	6	0.00
##Reich D	19	0	0.00	0.41	0.00	(0.00,43.18)	19	0.00
#Rutkin B	349	2	0.57	1.07	0.49	(0.05, 1.76)	253	0.45
Salimi A	52	0	0.00	0.34	0.00	(0.00,19.09)	52	0.00
##Schwartz R	76	0	0.00	0.76	0.00	(0.00, 5.80)	74	0.00
##Strizik B	321	3	0.93	0.88	0.97	(0.20, 2.84)	297	0.77
#Witkes D	117	0	0.00	0.52	0.00	(0.00, 5.48)	110	0.00
All Others	307	2	0.65	0.49	1.22	(0.14, 4.40)	294	1.01
TOTAL	5450	35	0.64	0.98	0.60 **	(0.42, 0.83)	4546	0.52
Orange Regional Medical Center								
##Celaj S	2	1	50.00	3.70	12.32	(0.16,68.56)	.	.
##Gotsis W	426	4	0.94	0.79	1.08	(0.29, 2.77)	321	0.44
##Kalapatapu K	164	2	1.22	0.77	1.44	(0.16, 5.20)	161	1.08
#Shapira S	271	1	0.37	0.92	0.36	(0.00, 2.03)	194	0.77
##Silverman G	264	1	0.38	1.22	0.28	(0.00, 1.58)	168	0.00
All Others	16	1	6.25	0.19	29.78	(0.39,100.0)	16	25.42
TOTAL	1143	10	0.87	0.91	0.87	(0.42, 1.60)	860	0.73
Rochester General Hospital								
Berlowitz M	308	2	0.65	1.02	0.58	(0.07, 2.10)	213	0.40
##Chockalingam S	279	3	1.08	0.97	1.01	(0.20, 2.96)	245	0.64
##Doling M	3	0	0.00	0.36	0.00	(0.00,100.0)	3	0.00
Fitzpatrick P	311	6	1.93	1.17	1.50	(0.55, 3.27)	202	1.00
Gacioch G	496	3	0.60	1.10	0.50	(0.10, 1.46)	356	0.00

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Rochester General Hospital, <i>continued</i>								
Mathew T M	378	4	1.06	0.59	1.64	(0.44, 4.21)	356	1.01
#Ong L S	1755	21	1.20	0.84	1.30	(0.81, 1.99)	1612	0.83
#Patel T	312	8	2.56	1.23	1.90	(0.82, 3.74)	290	1.30
Scortichini D	216	2	0.93	0.51	1.67	(0.19, 6.03)	211	1.20
#Stuver T	1111	12	1.08	0.92	1.07	(0.55, 1.87)	848	0.54
All Others	157	0	0.00	0.70	0.00	(0.00, 3.05)	147	0.00
TOTAL	5326	61	1.15	0.90	1.16	(0.88, 1.48)	4483	0.72
South Nassau Communities Hospital								
#Berke A	14	1	7.14	12.93	0.50	(0.01, 2.80)	.	.
#Freeman J	885	13	1.47	1.10	1.21	(0.65, 2.08)	695	0.80
##Hormozi S	21	0	0.00	3.14	0.00	(0.00, 5.06)	8	0.00
#Lituchy A	11	0	0.00	1.54	0.00	(0.00,19.79)	5	0.00
#Petrossian G	64	1	1.56	0.99	1.44	(0.02, 8.01)	59	0.00
##Rehman A	88	2	2.27	1.85	1.12	(0.13, 4.04)	53	0.00
#Zisfein J	408	2	0.49	0.92	0.48	(0.05, 1.74)	357	0.25
TOTAL	1491	19	1.27	1.24	0.94	(0.57, 1.47)	1177	0.57
Southside Hospital								
##Caselnova R	35	0	0.00	1.99	0.00	(0.00, 4.79)	9	0.00
##Deutsch E	450	3	0.67	0.48	1.26	(0.25, 3.69)	414	0.81
##Hormozi S	225	0	0.00	0.79	0.00	(0.00, 1.87)	179	0.00
##Lee P J	399	7	1.75	0.57	2.80 *	(1.12, 5.76)	355	1.93
##Patel R B	252	2	0.79	0.60	1.20	(0.13, 4.33)	209	0.79
##Reich D	234	2	0.85	0.60	1.29	(0.15, 4.67)	202	0.00
TOTAL	1595	14	0.88	0.62	1.29	(0.71, 2.17)	1368	0.83
St Barnabas Hospital								
##Celaj S	45	1	2.22	0.62	3.26	(0.04,18.16)	37	3.03
#Greenberg M	3	0	0.00	1.65	0.00	(0.00,67.48)	.	.
#Menegus M	2	0	0.00	1.48	0.00	(0.00,100.0)	1	0.00
##Srinivas V	1	0	0.00	1.99	0.00	(0.00,100.0)	.	.
TOTAL	51	1	1.96	0.74	2.41	(0.03,13.40)	38	2.98
St. Catherine of Siena Hospital								
##Deutsch E	118	1	0.85	0.70	1.10	(0.01, 6.11)	99	1.52
##Hormozi S	86	0	0.00	0.93	0.00	(0.00, 4.17)	61	0.00
#Khan S	46	0	0.00	1.16	0.00	(0.00, 6.27)	29	0.00
#Madrid A	9	0	0.00	4.36	0.00	(0.00, 8.51)	.	.
##Patel R B	119	1	0.84	1.18	0.65	(0.01, 3.63)	87	0.00
#Rosenband M	79	1	1.27	1.31	0.88	(0.01, 4.90)	61	0.00
#Tsiamsiouris T	18	0	0.00	2.47	0.00	(0.00, 7.51)	.	.
#Weinstein J	49	0	0.00	0.93	0.00	(0.00, 7.32)	31	0.00
TOTAL	524	3	0.57	1.12	0.46	(0.09, 1.36)	368	0.37
St. Elizabeth Medical Center								
#Kelberman M	476	3	0.63	0.71	0.81	(0.16, 2.37)	427	0.70
#MacIsaac H	737	8	1.09	1.14	0.87	(0.37, 1.71)	636	0.58
#Mathew T C	247	5	2.02	0.91	2.04	(0.66, 4.75)	217	1.96
#Nassif R	129	3	2.33	0.66	3.23	(0.65, 9.45)	119	1.04
#Patel A	365	0	0.00	1.10	0.00 **	(0.00, 0.83)	308	0.00

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
St. Elizabeth Medical Center, <i>continued</i>								
#Sassower M	1005	11	1.09	0.89	1.12	(0.56, 2.00)	896	0.78
#Varma P	390	5	1.28	0.78	1.49	(0.48, 3.47)	342	0.90
TOTAL	3349	35	1.05	0.92	1.03	(0.72, 1.43)	2945	0.77
St. Francis Hospital								
Abittan M	324	1	0.31	0.86	0.33	(0.00, 1.81)	311	0.23
#Berke A	332	2	0.60	1.42	0.39	(0.04, 1.39)	303	0.35
##Deutsch E	2	0	0.00	0.20	0.00	(0.00,100.0)	2	0.00
Ezratty A	223	1	0.45	1.34	0.30	(0.00, 1.69)	189	0.00
##Friedman G H	98	1	1.02	0.82	1.13	(0.01, 6.29)	78	1.32
##Gambino A	3	0	0.00	0.19	0.00	(0.00,100.0)	3	0.00
##Grunwald A	73	2	2.74	1.02	2.45	(0.27, 8.83)	62	1.42
Gulotta R	212	3	1.42	1.41	0.91	(0.18, 2.67)	200	0.32
##Koss J	65	1	1.54	1.80	0.78	(0.01, 4.34)	48	0.00
##Lee P J	89	0	0.00	0.57	0.00	(0.00, 6.58)	89	0.00
#Lituchy A	558	2	0.36	0.90	0.36	(0.04, 1.32)	517	0.00 **
#Madrid A	261	2	0.77	0.95	0.73	(0.08, 2.65)	230	0.00
Mezzafonte S	297	6	2.02	1.04	1.76	(0.64, 3.84)	245	1.90 *
Minadeo J	227	3	1.32	1.72	0.70	(0.14, 2.04)	182	0.54
Oruci E	206	2	0.97	0.74	1.20	(0.14, 4.35)	200	0.73
##Papadakos S	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
Pappas T	313	0	0.00	0.75	0.00	(0.00, 1.42)	304	0.00
##Patcha R	21	1	4.76	0.27	15.93	(0.21,88.63)	21	11.21
#Petrossian G	1125	9	0.80	0.93	0.78	(0.36, 1.49)	1092	0.52
##Rehman A	419	6	1.43	0.75	1.74	(0.63, 3.78)	389	0.84
##Reich D	80	0	0.00	0.49	0.00	(0.00, 8.48)	80	0.00
##Schwartz R	5	0	0.00	0.48	0.00	(0.00,100.0)	5	0.00
Shlofmitz R	2846	14	0.49	0.58	0.77	(0.42, 1.29)	2807	0.43
#Tsiamtsiouris T	440	5	1.14	1.41	0.73	(0.24, 1.71)	399	0.46
Venditto J	240	1	0.42	1.26	0.30	(0.00, 1.67)	208	0.00
#Zisfein J	60	1	1.67	1.70	0.89	(0.01, 4.96)	59	0.70
All Others	178	1	0.56	1.36	0.38	(0.00, 2.09)	147	0.00
TOTAL	8698	64	0.74	0.90	0.74	(0.57, 0.95)	8171	0.44
St. Josephs Hospital								
Bhan R	534	3	0.56	0.76	0.67	(0.14, 1.97)	473	0.71
Caputo R	1209	9	0.74	0.82	0.83	(0.38, 1.57)	1021	0.51
El-Khally Z	1245	13	1.04	0.95	1.00	(0.53, 1.71)	1097	0.66
Fischi M	1109	11	0.99	1.03	0.87	(0.44, 1.56)	908	0.92
Giambartolomei A	277	9	3.25	1.27	2.33 *	(1.06, 4.42)	197	2.57 *
Iskander A	750	8	1.07	1.01	0.97	(0.42, 1.90)	616	0.31
O'Hern M	414	3	0.72	1.12	0.59	(0.12, 1.73)	352	0.27
Reger M	272	2	0.74	0.68	0.99	(0.11, 3.57)	231	0.88
Simons A	662	7	1.06	1.05	0.92	(0.37, 1.90)	474	0.92
Walford G	179	1	0.56	0.84	0.60	(0.01, 3.35)	136	0.84
All Others	6	0	0.00	0.17	0.00	(0.00,100.0)	6	0.00
TOTAL	6657	66	0.99	0.95	0.95	(0.74, 1.21)	5511	0.73

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
St. Lukes Cornwall Hospital - Newburgh								
#Gosselin R	110	0	0.00	0.81	0.00	(0.00, 3.75)	78	0.00
#Hadid A	212	5	2.36	1.32	1.63	(0.53, 3.80)	177	1.24
#Hadid A B	155	0	0.00	1.34	0.00	(0.00, 1.60)	114	0.00
#Jafar M	11	0	0.00	0.62	0.00	(0.00,49.00)	9	0.00
#Shah N	196	3	1.53	1.55	0.90	(0.18, 2.63)	150	0.41
TOTAL	684	8	1.17	1.30	0.82	(0.35, 1.62)	528	0.64
St. Lukes Roosevelt Hospital-St. Lukes								
#Coven D	192	2	1.04	1.00	0.95	(0.11, 3.44)	138	0.65
Hong M	370	2	0.54	0.88	0.56	(0.06, 2.02)	334	0.00
Leber R	243	1	0.41	0.87	0.43	(0.01, 2.41)	198	0.00
#Simon C	405	11	2.72	2.00	1.24	(0.62, 2.22)	350	1.00
##Slater J	17	0	0.00	0.23	0.00	(0.00,85.05)	17	0.00
All Others	312	6	1.92	1.40	1.25	(0.46, 2.73)	247	0.44
TOTAL	1539	22	1.43	1.28	1.01	(0.64, 1.54)	1284	0.57
St. Peters Hospital								
Bishop G	315	4	1.27	0.91	1.27	(0.34, 3.25)	198	0.46
##Brady S	82	0	0.00	0.63	0.00	(0.00, 6.47)	68	0.00
##Delago A	65	1	1.54	2.50	0.56	(0.01, 3.11)	49	0.00
#Esper D	404	2	0.50	0.87	0.52	(0.06, 1.88)	367	0.00
#Macina A	1	0	0.00	2.01	0.00	(0.00,100.0)	.	.
Martinelli M	535	6	1.12	0.75	1.37	(0.50, 2.98)	395	1.26
##Papaleo R	14	0	0.00	0.58	0.00	(0.00,41.31)	7	0.00
#Papandrea L	199	2	1.01	0.49	1.86	(0.21, 6.72)	176	1.83
Roccario E	568	9	1.58	1.28	1.13	(0.52, 2.15)	369	1.32
All Others	174	0	0.00	0.73	0.00	(0.00, 2.62)	135	0.00
TOTAL	2357	24	1.02	0.94	0.99	(0.63, 1.47)	1764	0.75
Staten Island University Hospital- North								
Baldari D	149	0	0.00	1.33	0.00	(0.00, 1.68)	123	0.00
Duvvuri S	318	3	0.94	0.95	0.90	(0.18, 2.64)	274	0.29
Farid A	232	2	0.86	0.48	1.63	(0.18, 5.89)	219	1.22
Gala B	181	3	1.66	1.23	1.23	(0.25, 3.59)	151	0.50
##Hoyek W	217	3	1.38	1.20	1.05	(0.21, 3.06)	174	0.83
#Kandov R	137	2	1.46	1.68	0.79	(0.09, 2.86)	95	0.00
Malpeso J	269	2	0.74	1.16	0.58	(0.07, 2.11)	213	0.47
McCord D	438	4	0.91	0.76	1.10	(0.30, 2.81)	413	0.60
Mohan R	15	0	0.00	0.35	0.00	(0.00,63.76)	14	0.00
#Royzman R	144	0	0.00	1.72	0.00	(0.00, 1.35)	83	0.00
Tamburrino F	604	4	0.66	0.86	0.70	(0.19, 1.79)	540	0.62
All Others	590	7	1.19	0.61	1.78	(0.71, 3.66)	526	1.02
TOTAL	3294	30	0.91	0.94	0.88	(0.59, 1.26)	2825	0.57
Strong Memorial Hospital								
##Chockalingam S	1	0	0.00	0.39	0.00	(0.00,100.0)	1	0.00
Cove C	477	8	1.68	1.11	1.38	(0.59, 2.71)	336	1.68
##Doling M	686	12	1.75	0.87	1.83 *	(0.94, 3.19)	551	0.88
Gassler J	481	3	0.62	1.01	0.57	(0.11, 1.65)	339	0.39
#Ling F	469	4	0.85	1.34	0.58	(0.16, 1.49)	333	0.24
#Narins C	554	4	0.72	0.82	0.80	(0.21, 2.04)	404	0.28

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Strong Memorial Hospital, <i>continued</i>								
Pomerantz R	115	2	1.74	1.04	1.53	(0.17, 5.53)	69	4.24
All Others	263	4	1.52	1.11	1.25	(0.34, 3.20)	187	2.21
TOTAL	3046	37	1.21	1.02	1.08	(0.76, 1.50)	2220	0.87
United Health Services - Wilson Hospital								
Ahmed O	270	1	0.37	1.26	0.27	(0.00, 1.49)	195	0.00
Jamal N	479	2	0.42	1.14	0.34	(0.04, 1.21)	396	0.42
Kashou H	549	6	1.09	0.93	1.07	(0.39, 2.34)	435	0.80
Rehman A U	241	4	1.66	1.82	0.83	(0.22, 2.12)	166	0.00
Stamato N	270	2	0.74	1.19	0.57	(0.06, 2.05)	195	0.55
Traverse P	388	4	1.03	0.94	1.00	(0.27, 2.56)	316	0.34
TOTAL	2197	19	0.86	1.15	0.69	(0.41, 1.07)	1703	0.43
Unity Hospital of Rochester								
##Chockalingam S	15	0	0.00	1.29	0.00	(0.00,17.23)	11	0.00
##Doling M	35	1	2.86	0.45	5.84	(0.08,32.48)	33	6.21
#Ling F	20	1	5.00	1.74	2.62	(0.03,14.55)	17	0.00
#Narins C	41	0	0.00	0.44	0.00	(0.00,18.72)	39	0.00
#Ong L S	28	0	0.00	1.81	0.00	(0.00, 6.59)	23	0.00
#Patel T	879	13	1.48	1.07	1.26	(0.67, 2.15)	695	1.19
#Stuver T	7	0	0.00	1.50	0.00	(0.00,31.89)	5	0.00
All Others	15	0	0.00	1.53	0.00	(0.00,14.59)	15	0.00
TOTAL	1040	15	1.44	1.07	1.23	(0.69, 2.03)	838	1.15
University Hospital - Brooklyn								
##Afflu E	28	0	0.00	0.45	0.00	(0.00,26.80)	28	0.00
#Badero O	18	0	0.00	0.24	0.00	(0.00,76.02)	18	0.00
##Bhambhani G	85	0	0.00	0.63	0.00	(0.00, 6.23)	84	0.00
#Castillo R	104	3	2.88	1.55	1.69	(0.34, 4.94)	73	1.36
Cavusoglu E	374	2	0.53	0.86	0.57	(0.06, 2.04)	321	0.37
#Chadow H	105	1	0.95	1.00	0.86	(0.01, 4.81)	80	0.00
Feit A	336	4	1.19	0.70	1.56	(0.42, 4.00)	297	0.77
##John S	187	1	0.53	0.62	0.79	(0.01, 4.38)	179	0.55
Marmur J	363	4	1.10	0.96	1.04	(0.28, 2.67)	317	0.76
All Others	182	2	1.10	0.92	1.08	(0.12, 3.91)	148	0.68
TOTAL	1782	17	0.95	0.86	1.01	(0.59, 1.62)	1545	0.59
University Hospital - Brooklyn @ LICH								
##Aslam A K	20	0	0.00	0.37	0.00	(0.00,44.70)	18	0.00
#Coven D	12	2	16.67	2.23	6.80	(0.76,24.57)	.	.
#Gowda R	202	1	0.50	1.57	0.29	(0.00, 1.60)	175	0.00
##Kantrowitz N	245	4	1.63	1.09	1.36	(0.37, 3.48)	170	0.86
##Kesanakurthy S	2	0	0.00	0.37	0.00	(0.00,100.0)	2	0.00
#Rosero H	23	0	0.00	1.25	0.00	(0.00,11.59)	16	0.00
All Others	32	1	3.13	1.22	2.33	(0.03,12.97)	20	5.62
TOTAL	536	8	1.49	1.28	1.06	(0.46, 2.09)	401	0.60
University Hospital - Stony Brook								
Chernilas J	394	7	1.78	1.63	1.00	(0.40, 2.05)	223	1.22
Dervan J	304	1	0.33	0.59	0.51	(0.01, 2.85)	293	0.32
Gruberg L	619	10	1.62	1.62	0.91	(0.44, 1.67)	397	0.61

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
University Hospital - Stony Brook, <i>continued</i>								
Jeremias A	571	7	1.23	1.50	0.75	(0.30, 1.54)	341	0.43
#Khan S	257	2	0.78	0.53	1.34	(0.15, 4.84)	254	0.89
Korlipara G	222	0	0.00	0.62	0.00	(0.00, 2.45)	206	0.00
Lawson W	546	21	3.85	1.85	1.89 *	(1.17, 2.89)	329	0.43
#Lederman S	231	1	0.43	0.84	0.47	(0.01, 2.60)	220	0.00
Mani A	590	9	1.53	1.53	0.91	(0.42, 1.73)	368	0.50
Montellese D	167	0	0.00	0.65	0.00	(0.00, 3.10)	154	0.00
#Rosenband M	283	5	1.77	0.67	2.39	(0.77, 5.59)	269	1.72
#Weinstein J	742	6	0.81	0.95	0.78	(0.28, 1.69)	683	0.66
All Others	165	0	0.00	0.71	0.00	(0.00, 2.84)	157	0.00
TOTAL	5091	69	1.36	1.21	1.02	(0.79, 1.29)	3894	0.57
University Hospital – Upstate								
#Battaglia J	2	0	0.00	0.47	0.00	(0.00,100.0)	2	0.00
Ford T	153	2	1.31	1.28	0.93	(0.10, 3.35)	97	0.80
#George A	3	0	0.00	0.38	0.00	(0.00,100.0)	3	0.00
Siddiqui D	338	8	2.37	1.40	1.54	(0.66, 3.03)	245	0.83
All Others	322	4	1.24	1.53	0.74	(0.20, 1.89)	208	0.50
TOTAL	818	14	1.71	1.43	1.09	(0.60, 1.84)	555	0.72
Vassar Brothers Medical Center								
Gorwara S	464	2	0.43	1.13	0.35	(0.04, 1.25)	339	0.35
#Gosselin R	125	1	0.80	0.74	0.99	(0.01, 5.49)	102	1.09
#Jafar M	611	4	0.65	0.91	0.66	(0.18, 1.68)	473	0.61
Kantaros L	316	5	1.58	0.90	1.60	(0.51, 3.72)	234	0.62
#Shah N	89	0	0.00	0.54	0.00	(0.00, 6.94)	83	0.00
Yen M	364	7	1.92	0.85	2.06	(0.83, 4.25)	267	1.05
All Others	1	0	0.00	0.08	0.00	(0.00,100.0)	1	0.00
TOTAL	1970	19	0.96	0.92	0.95	(0.57, 1.49)	1499	0.62
Westchester Medical Center								
##Charney R	81	1	1.23	0.44	2.57	(0.03,14.30)	77	0.00
#Cohen M B	229	3	1.31	1.41	0.85	(0.17, 2.48)	159	0.64
#Cuomo L	355	2	0.56	1.13	0.46	(0.05, 1.65)	257	0.71
##Gotsis W	28	1	3.57	1.17	2.77	(0.04,15.41)	18	0.00
#Hadid A	74	0	0.00	0.41	0.00	(0.00,10.92)	74	0.00
#Hadid A B	59	0	0.00	0.51	0.00	(0.00,11.16)	55	0.00
#Hjemdahl-Monsen C	491	6	1.22	1.10	1.01	(0.37, 2.20)	429	0.46
##Kalapatapu K	809	6	0.74	1.13	0.60	(0.22, 1.30)	691	0.23
##Messinger D	52	0	0.00	0.54	0.00	(0.00,11.96)	51	0.00
#Pucillo A	347	7	2.02	1.10	1.67	(0.67, 3.45)	298	1.74 *
##Shih A T	205	3	1.46	0.81	1.65	(0.33, 4.81)	187	0.47
##Silverman G	14	1	7.14	1.39	4.70	(0.06,26.13)	7	0.00
All Others	245	1	0.41	1.36	0.27	(0.00, 1.53)	163	0.56
TOTAL	2989	31	1.04	1.08	0.87	(0.59, 1.24)	2466	0.55
White Plains Hospital Center								
#Bliagos D	135	2	1.48	1.19	1.13	(0.13, 4.10)	114	1.20
##Charney R	16	1	6.25	1.61	3.55	(0.05,19.74)	11	0.00
#Cohen M B	28	0	0.00	0.62	0.00	(0.00,19.30)	22	0.00
#Cuomo L	12	0	0.00	0.54	0.00	(0.00,51.85)	12	0.00

Table 3 *continued*

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
White Plains Hospital Center, <i>continued</i>								
##Grose R	46	2	4.35	1.48	2.68	(0.30, 9.69)	35	0.00
#Irobunda C	2	0	0.00	0.46	0.00	(0.00,100.0)	1	0.00
##Johnson M	6	0	0.00	1.11	0.00	(0.00,50.08)	2	0.00
##Kalapatapu K	31	0	0.00	0.67	0.00	(0.00,16.20)	26	0.00
#Kodali S	8	0	0.00	1.02	0.00	(0.00,40.91)	4	0.00
##Messinger D	14	0	0.00	0.49	0.00	(0.00,48.66)	10	0.00
All Others	54	2	3.70	1.85	1.82	(0.20, 6.57)	29	5.35 *
TOTAL	352	7	1.99	1.20	1.51	(0.61, 3.12)	266	1.34
Winthrop University Hospital								
##Caselnova R	334	4	1.20	1.08	1.01	(0.27, 2.58)	302	0.58
##Deutsch E	3	0	0.00	0.64	0.00	(0.00,100.0)	3	0.00
Donohue D	271	5	1.85	1.25	1.34	(0.43, 3.13)	228	0.95
##Gambino A	608	5	0.82	0.58	1.30	(0.42, 3.03)	553	0.94
##Hormozi S	20	0	0.00	0.51	0.00	(0.00,32.59)	20	0.00
Marzo K	290	0	0.00	0.63	0.00	(0.00, 1.83)	251	0.00
#Musso J	3	0	0.00	0.18	0.00	(0.00,100.0)	3	0.00
Naidu S	407	5	1.23	1.68	0.67	(0.22, 1.56)	338	0.57
##Schwartz R	950	1	0.11	0.72	0.13 **	(0.00, 0.74)	875	0.12
#Witkes D	133	0	0.00	0.85	0.00	(0.00, 2.95)	126	0.00
All Others	150	2	1.33	1.11	1.09	(0.12, 3.95)	111	0.98
TOTAL	3169	22	0.69	0.91	0.69	(0.43, 1.05)	2810	0.48
Statewide Total	158289	1443	0.91				136192	0.57

* 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 Cardiologist Practicing at More Than One Hospital, 2009-2011

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Aboufares A	275	1	0.36	0.66	0.50	(0.01, 2.80)	267	0.00
Lenox Hill Hospital	254	1	0.39	0.67	0.54	(0.01, 2.98)	246	0.00
NYP- Weill Cornell	21	0	0.00	0.53	0.00	(0.00,29.94)	21	0.00
Afflu E	51	0	0.00	0.37	0.00	(0.00,17.59)	51	0.00
Brookdale Hosp Med Ctr	2	0	0.00	0.14	0.00	(0.00,100.0)	2	0.00
NY Methodist Hospital	21	0	0.00	0.30	0.00	(0.00,53.52)	21	0.00
Univ. Hosp-Brooklyn	28	0	0.00	0.45	0.00	(0.00,26.80)	28	0.00
Arkonac B	622	9	1.45	1.37	0.96	(0.44, 1.83)	485	0.78
Long Island Jewish MC	577	7	1.21	1.09	1.01	(0.41, 2.09)	481	0.79
North Shore Univ Hosp	45	2	4.44	4.95	0.82	(0.09, 2.96)	4	0.00
Aslam A	615	1	0.16	0.21	0.70	(0.01, 3.91)	610	0.46
Beth Israel Med Ctr	411	0	0.00	0.20	0.00	(0.00, 4.04)	411	0.00
NY Methodist Hospital	184	1	0.54	0.21	2.31	(0.03,12.88)	181	1.51
Univ. Brooklyn @ LICH	20	0	0.00	0.37	0.00	(0.00,44.70)	18	0.00
Attubato M	1204	11	0.91	0.85	0.98	(0.49, 1.75)	1141	0.36
Bellevue Hospital Ctr	156	5	3.21	1.31	2.22	(0.72, 5.19)	133	1.11
NYU Hospitals Center	1048	6	0.57	0.78	0.67	(0.24, 1.45)	1008	0.25
Babaev A	562	2	0.36	0.59	0.55	(0.06, 2.00)	543	0.27
Bellevue Hospital Ctr	14	1	7.14	7.64	0.85	(0.01, 4.74)	3	0.00
NYU Hospitals Center	548	1	0.18	0.41	0.41	(0.01, 2.28)	540	0.28
Badero O	166	0	0.00	0.30	0.00	(0.00, 6.62)	166	0.00
NY Methodist Hospital	148	0	0.00	0.31	0.00	(0.00, 7.25)	148	0.00
Univ. Hosp-Brooklyn	18	0	0.00	0.24	0.00	(0.00,76.02)	18	0.00
Bagga R	348	2	0.57	0.86	0.61	(0.07, 2.20)	266	0.90
Huntington Hospital	144	1	0.69	1.43	0.44	(0.01, 2.47)	65	1.52
Long Island Jewish MC	202	1	0.50	0.46	0.98	(0.01, 5.46)	199	0.64
North Shore Univ Hosp	2	0	0.00	0.12	0.00	(0.00,100.0)	2	0.00
Barman N	223	2	0.90	1.78	0.46	(0.05, 1.66)	176	0.00
Elmhurst Hospital Ctr	36	2	5.56	3.39	1.49	(0.17, 5.39)	9	0.00
Mount Sinai Hospital	187	0	0.00	1.46	0.00	(0.00, 1.22)	167	0.00
Battaglia J	690	6	0.87	0.82	0.97	(0.35, 2.11)	566	0.74
Crouse Hospital	688	6	0.87	0.82	0.97	(0.36, 2.12)	564	0.74
Univ. Hosp-Upstate	2	0	0.00	0.47	0.00	(0.00,100.0)	2	0.00
Berke A	346	3	0.87	1.89	0.42	(0.08, 1.22)	303	0.35
South Nassau Com. Hosp	14	1	7.14	12.93	0.50	(0.01, 2.80)	.	.
St. Francis Hospital	332	2	0.60	1.42	0.39	(0.04, 1.39)	303	0.35
Bhambhani G	436	0	0.00	0.31	0.00	(0.00, 2.48)	435	0.00
Beth Israel Med Ctr	52	0	0.00	0.21	0.00	(0.00,30.78)	52	0.00
NY Methodist Hospital	274	0	0.00	0.24	0.00	(0.00, 5.08)	274	0.00
SVMC- St. Vincents ¹	25	0	0.00	0.19	0.00	(0.00,70.94)	25	0.00
Univ. Hosp-Brooklyn	85	0	0.00	0.63	0.00	(0.00, 6.23)	84	0.00

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Bliagos D	267	3	1.12	1.08	0.95	(0.19, 2.77)	242	0.85
NYP- Columbia Presby.	132	1	0.76	0.97	0.71	(0.01, 3.97)	128	0.54
White Plains Hospital	135	2	1.48	1.19	1.13	(0.13, 4.10)	114	1.20
Boutis L	601	3	0.50	1.62	0.28 **	(0.06, 0.82)	428	0.32
Long Island Jewish MC	27	1	3.70	4.57	0.74	(0.01, 4.11)	5	0.00
North Shore Univ Hosp	574	2	0.35	1.48	0.21 **	(0.02, 0.77)	423	0.32
Brady S	511	2	0.39	0.66	0.54	(0.06, 1.94)	422	0.00
Albany Medical Center	428	2	0.47	0.67	0.63	(0.07, 2.29)	354	0.00
Glens Falls Hospital	1	0	0.00	1.15	0.00	(0.00,100.0)	.	.
St. Peters Hospital	82	0	0.00	0.63	0.00	(0.00, 6.47)	68	0.00
Brogno D	553	6	1.08	0.89	1.11	(0.40, 2.41)	475	0.74
Good Sam - Suffern	516	5	0.97	0.93	0.94	(0.30, 2.20)	438	0.51
NYP- Columbia Presby.	37	1	2.70	0.33	7.52	(0.10,41.87)	37	5.93
Calandra S	450	2	0.44	0.88	0.46	(0.05, 1.67)	362	0.00
Mercy Hospital	423	2	0.47	0.92	0.47	(0.05, 1.69)	335	0.00
Millard Fillmore Hosp	27	0	0.00	0.21	0.00	(0.00,57.84)	27	0.00
Caselnova R	903	6	0.66	0.78	0.77	(0.28, 1.68)	797	0.47
Good Sam - West Islip	483	2	0.41	0.52	0.73	(0.08, 2.63)	439	0.40
Huntington Hospital	5	0	0.00	0.90	0.00	(0.00,73.91)	1	0.00
North Shore Univ Hosp	46	0	0.00	0.49	0.00	(0.00,14.71)	46	0.00
Southside Hospital	35	0	0.00	1.99	0.00	(0.00, 4.79)	9	0.00
Winthrop Univ. Hosp	334	4	1.20	1.08	1.01	(0.27, 2.58)	302	0.58
Castillo R	389	12	3.08	1.48	1.90 *	(0.98, 3.32)	271	1.23
Brookdale Hosp Med Ctr	285	9	3.16	1.45	1.98	(0.91, 3.77)	198	1.21
Univ. Hosp-Brooklyn	104	3	2.88	1.55	1.69	(0.34, 4.94)	73	1.36
Celaj S	411	7	1.70	0.80	1.93	(0.77, 3.97)	315	0.78
Bronx-Lebanon-Cncourse	19	1	5.26	1.87	2.56	(0.03,14.24)	.	.
Montefiore - Moses	344	4	1.16	0.75	1.40	(0.38, 3.60)	277	0.45
Montefiore - Weiler	1	0	0.00	0.22	0.00	(0.00,100.0)	1	0.00
Orange Regional Med Ctr	2	1	50.00	3.70	12.32	(0.16,68.56)	.	.
St. Barnabas Hospital	45	1	2.22	0.62	3.26	(0.04,18.16)	37	3.03
Chadow H	426	10	2.35	1.36	1.57	(0.75, 2.89)	327	0.56
Brookdale Hosp Med Ctr	321	9	2.80	1.48	1.73	(0.79, 3.28)	247	0.68
Univ. Hosp-Brooklyn	105	1	0.95	1.00	0.86	(0.01, 4.81)	80	0.00
Charney R	415	3	0.72	0.77	0.85	(0.17, 2.49)	401	0.19
NYP- Weill Cornell	318	1	0.31	0.82	0.35	(0.00, 1.95)	313	0.21
Westchester Med Ctr	81	1	1.23	0.44	2.57	(0.03,14.30)	77	0.00
White Plains Hospital	16	1	6.25	1.61	3.55	(0.05,19.74)	11	0.00
Chockalingam S	295	3	1.02	0.98	0.94	(0.19, 2.76)	257	0.63
Rochester General Hosp	279	3	1.08	0.97	1.01	(0.20, 2.96)	245	0.64
Strong Memorial Hosp	1	0	0.00	0.39	0.00	(0.00,100.0)	1	0.00
Unity Hospital	15	0	0.00	1.29	0.00	(0.00,17.23)	11	0.00

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Cohen M B	257	3	1.17	1.32	0.81	(0.16, 2.35)	181	0.57
Westchester Med Ctr	229	3	1.31	1.41	0.85	(0.17, 2.48)	159	0.64
White Plains Hospital	28	0	0.00	0.62	0.00	(0.00,19.30)	22	0.00
Conley J	1214	10	0.82	0.68	1.11	(0.53, 2.04)	1155	0.78
Buffalo General Hosp	1211	10	0.83	0.68	1.11	(0.53, 2.05)	1155	0.78
Millard Fillmore Hosp	3	0	0.00	1.80	0.00	(0.00,62.03)	.	.
Coppola J	130	1	0.77	0.60	1.16	(0.02, 6.47)	120	0.00
Bellevue Hospital Ctr	25	0	0.00	0.68	0.00	(0.00,19.65)	18	0.00
NYU Hospitals Center	98	1	1.02	0.60	1.55	(0.02, 8.60)	96	0.00
SVCMC- St. Vincents ¹	7	0	0.00	0.35	0.00	(0.00,100.0)	6	0.00
Corbelli J	928	8	0.86	0.80	0.99	(0.42, 1.94)	820	0.39
Buffalo General Hosp	8	1	12.50	2.84	4.02	(0.05,22.34)	.	.
Millard Fillmore Hosp	920	7	0.76	0.78	0.89	(0.36, 1.83)	820	0.39
Coven D	204	4	1.96	1.07	1.67	(0.45, 4.28)	138	0.65
St. Lukes at St. Lukes	192	2	1.04	1.00	0.95	(0.11, 3.44)	138	0.65
Univ. Brooklyn @ LICH	12	2	16.67	2.23	6.80	(0.76,24.57)	.	.
Cuomo L	367	2	0.54	1.11	0.45	(0.05, 1.62)	269	0.68
Westchester Med Ctr	355	2	0.56	1.13	0.46	(0.05, 1.65)	257	0.71
White Plains Hospital	12	0	0.00	0.54	0.00	(0.00,51.85)	12	0.00
Dangas G	388	1	0.26	1.30	0.18	(0.00, 1.01)	350	0.18
Mount Sinai Hospital	147	0	0.00	1.23	0.00	(0.00, 1.84)	136	0.00
NYP- Columbia Presby.	241	1	0.41	1.34	0.28	(0.00, 1.57)	214	0.33
Delago A	1260	12	0.95	0.62	1.39	(0.72, 2.43)	1144	0.99
Albany Medical Center	1194	11	0.92	0.52	1.61	(0.80, 2.89)	1095	1.05
Glens Falls Hospital	1	0	0.00	0.89	0.00	(0.00,100.0)	.	.
St. Peters Hospital	65	1	1.54	2.50	0.56	(0.01, 3.11)	49	0.00
Deutsch E	711	8	1.13	0.57	1.79	(0.77, 3.52)	635	1.25
Good Sam - West Islip	100	3	3.00	0.91	2.99	(0.60, 8.75)	79	1.77
Long Island Jewish MC	3	0	0.00	0.71	0.00	(0.00,100.0)	3	0.00
North Shore Univ Hosp	35	1	2.86	0.36	7.27	(0.10,40.46)	35	4.71
Southside Hospital	450	3	0.67	0.48	1.26	(0.25, 3.69)	414	0.81
St. Catherine of Siena	118	1	0.85	0.70	1.10	(0.01, 6.11)	99	1.52
St. Francis Hospital	2	0	0.00	0.20	0.00	(0.00,100.0)	2	0.00
Winthrop Univ. Hosp	3	0	0.00	0.64	0.00	(0.00,100.0)	3	0.00
Dhama B	547	4	0.73	0.69	0.97	(0.26, 2.48)	535	0.62
Long Island Jewish MC	370	2	0.54	0.67	0.73	(0.08, 2.64)	361	0.48
North Shore Univ Hosp	177	2	1.13	0.72	1.43	(0.16, 5.18)	174	0.89
Doling M	724	13	1.80	0.85	1.93 *	(1.02, 3.29)	587	1.07
Rochester General Hosp	3	0	0.00	0.36	0.00	(0.00,100.0)	3	0.00
Strong Memorial Hosp	686	12	1.75	0.87	1.83 *	(0.94, 3.19)	551	0.88
Unity Hospital	35	1	2.86	0.45	5.84	(0.08,32.48)	33	6.21

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Dominguez-Echevarria A	435	0	0.00	0.53	0.00	(0.00, 1.46)	431	0.00
Lenox Hill Hospital	157	0	0.00	0.41	0.00	(0.00, 5.15)	156	0.00
Lutheran Medical Ctr	63	0	0.00	0.87	0.00	(0.00, 6.13)	61	0.00
NY Methodist Hospital	41	0	0.00	0.30	0.00	(0.00,26.92)	41	0.00
NYP- Columbia Presby.	171	0	0.00	0.56	0.00	(0.00, 3.48)	170	0.00
SVMCMC- St. Vincents ¹	3	0	0.00	0.30	0.00	(0.00,100.0)	3	0.00
Emerson R	258	7	2.71	1.28	1.93	(0.78, 3.99)	159	1.71
Erie County Med Ctr	1	0	0.00	0.36	0.00	(0.00,100.0)	.	.
Mercy Hospital	257	7	2.72	1.28	1.94	(0.78, 3.99)	159	1.71
Esper D	589	5	0.85	0.86	0.90	(0.29, 2.09)	512	0.21
Albany Medical Center	185	3	1.62	0.86	1.72	(0.35, 5.03)	145	0.96
St. Peters Hospital	404	2	0.50	0.87	0.52	(0.06, 1.88)	367	0.00
Farhi E	721	4	0.55	0.75	0.67	(0.18, 1.72)	630	0.34
Buffalo General Hosp	716	4	0.56	0.75	0.68	(0.18, 1.75)	630	0.34
Millard Fillmore Hosp	5	0	0.00	1.72	0.00	(0.00,38.96)	.	.
Feit F	860	3	0.35	0.57	0.56	(0.11, 1.63)	785	0.17
Bellevue Hospital Ctr	218	0	0.00	0.76	0.00	(0.00, 2.01)	190	0.00
NYU Hospitals Center	642	3	0.47	0.50	0.85	(0.17, 2.47)	595	0.23
Fernaine G	827	6	0.73	0.76	0.87	(0.32, 1.90)	760	0.60
Lenox Hill Hospital	100	0	0.00	0.53	0.00	(0.00, 6.36)	98	0.00
Lutheran Medical Ctr	441	5	1.13	0.93	1.11	(0.36, 2.59)	376	0.97
Mount Sinai Hospital	286	1	0.35	0.57	0.56	(0.01, 3.11)	286	0.37
Freeman J	896	13	1.45	1.11	1.19	(0.63, 2.03)	705	0.77
North Shore Univ Hosp	11	0	0.00	1.84	0.00	(0.00,16.51)	10	0.00
South Nassau Com. Hosp	885	13	1.47	1.10	1.21	(0.65, 2.08)	695	0.80
Friedman G H	488	3	0.61	0.73	0.77	(0.15, 2.24)	435	0.57
Long Island Jewish MC	177	1	0.56	0.60	0.86	(0.01, 4.79)	169	0.73
NY Hospital - Queens	60	1	1.67	1.57	0.97	(0.01, 5.39)	43	0.00
North Shore Univ Hosp	153	0	0.00	0.50	0.00	(0.00, 4.40)	145	0.00
St. Francis Hospital	98	1	1.02	0.82	1.13	(0.01, 6.29)	78	1.32
Gade C	90	0	0.00	0.47	0.00	(0.00, 7.94)	85	0.00
Jamaica Hosp Med Ctr	1	0	0.00	5.60	0.00	(0.00,59.64)	.	.
Lenox Hill Hospital	89	0	0.00	0.41	0.00	(0.00, 9.16)	85	0.00
Gambino A	631	6	0.95	0.57	1.53	(0.56, 3.33)	576	1.15
North Shore Univ Hosp	20	1	5.00	0.27	17.11	(0.22,95.21)	20	12.44
St. Francis Hospital	3	0	0.00	0.19	0.00	(0.00,100.0)	3	0.00
Winthrop Univ. Hosp	608	5	0.82	0.58	1.30	(0.42, 3.03)	553	0.94
Gelormini J	567	11	1.94	1.10	1.61	(0.80, 2.88)	455	1.43
Buffalo General Hosp	4	0	0.00	0.37	0.00	(0.00,100.0)	3	0.00
Mercy Hospital	457	11	2.41	1.26	1.74	(0.87, 3.11)	349	1.69*
Millard Fillmore Hosp	106	0	0.00	0.41	0.00	(0.00, 7.60)	103	0.00

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
George A	479	10	2.09	1.25	1.52	(0.73, 2.80)	382	0.84
Crouse Hospital	476	10	2.10	1.26	1.52	(0.73, 2.80)	379	0.85
Univ. Hosp-Upstate	3	0	0.00	0.38	0.00	(0.00,100.0)	3	0.00
Gosselin R	235	1	0.43	0.77	0.50	(0.01, 2.79)	180	0.65
St. Lukes Crnwll-Newbrg	110	0	0.00	0.81	0.00	(0.00, 3.75)	78	0.00
Vassar Bros. Med Ctr	125	1	0.80	0.74	0.99	(0.01, 5.49)	102	1.09
Gotsis W	887	12	1.35	0.77	1.59	(0.82, 2.78)	713	0.72
Montefiore - Weiler	433	7	1.62	0.73	2.01	(0.81, 4.14)	374	0.98
Orange Regional Med Ctr	426	4	0.94	0.79	1.08	(0.29, 2.77)	321	0.44
Westchester Med Ctr	28	1	3.57	1.17	2.77	(0.04,15.41)	18	0.00
Gowda R	1160	8	0.69	0.95	0.66	(0.28, 1.30)	1058	0.38
Beth Israel Med Ctr	958	7	0.73	0.82	0.81	(0.33, 1.67)	883	0.46
Univ. Brooklyn @ LICH	202	1	0.50	1.57	0.29	(0.00, 1.60)	175	0.00
Green S	500	3	0.60	1.20	0.46	(0.09, 1.34)	381	0.29
Long Island Jewish MC	23	0	0.00	2.38	0.00	(0.00, 6.11)	3	0.00
North Shore Univ Hosp	477	3	0.63	1.14	0.50	(0.10, 1.47)	378	0.30
Greenberg M	647	4	0.62	0.81	0.70	(0.19, 1.79)	525	0.23
Montefiore - Moses	644	4	0.62	0.80	0.71	(0.19, 1.81)	525	0.23
St. Barnabas Hospital	3	0	0.00	1.65	0.00	(0.00,67.48)	.	.
Grose R	279	3	1.08	0.82	1.20	(0.24, 3.50)	258	0.00
Montefiore - Moses	28	0	0.00	0.72	0.00	(0.00,16.58)	26	0.00
NYP- Columbia Presby.	205	1	0.49	0.68	0.65	(0.01, 3.62)	197	0.00
White Plains Hospital	46	2	4.35	1.48	2.68	(0.30, 9.69)	35	0.00
Grunwald A	453	2	0.44	0.85	0.47	(0.05, 1.71)	407	0.23
Long Island Jewish MC	195	0	0.00	0.82	0.00	(0.00, 2.08)	186	0.00
NY Hospital - Queens	64	0	0.00	1.54	0.00	(0.00, 3.40)	44	0.00
North Shore Univ Hosp	121	0	0.00	0.43	0.00	(0.00, 6.40)	115	0.00
St. Francis Hospital	73	2	2.74	1.02	2.45	(0.27, 8.83)	62	1.42
Gustafson G	466	5	1.07	0.80	1.23	(0.40, 2.87)	425	0.66
Lenox Hill Hospital	36	0	0.00	0.52	0.00	(0.00,17.81)	36	0.00
NY Hospital - Queens	420	5	1.19	0.83	1.31	(0.42, 3.06)	379	0.72
North Shore Univ Hosp	10	0	0.00	0.46	0.00	(0.00,72.02)	10	0.00
Hadid A	286	5	1.75	1.08	1.47	(0.47, 3.43)	251	1.01
St. Lukes Crnwll-Newbrg	212	5	2.36	1.32	1.63	(0.53, 3.80)	177	1.24
Westchester Med Ctr	74	0	0.00	0.41	0.00	(0.00,10.92)	74	0.00
Hadid A B	214	0	0.00	1.11	0.00	(0.00, 1.40)	169	0.00
St. Lukes Crnwll-Newbrg	155	0	0.00	1.34	0.00	(0.00, 1.60)	114	0.00
Westchester Med Ctr	59	0	0.00	0.51	0.00	(0.00,11.16)	55	0.00
Hameedi A	754	0	0.00	0.20	0.00	(0.00, 2.25)	753	0.00
Long Island Jewish MC	740	0	0.00	0.20	0.00	(0.00, 2.29)	739	0.00
Mount Sinai Hospital	9	0	0.00	0.22	0.00	(0.00,100.0)	9	0.00
NY Hospital - Queens	5	0	0.00	0.14	0.00	(0.00,100.0)	5	0.00

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Haq N	369	2	0.54	0.99	0.50	(0.06, 1.80)	270	0.34
Buffalo General Hosp	11	0	0.00	2.49	0.00	(0.00,12.20)	.	.
Mercy Hospital	315	2	0.63	0.89	0.65	(0.07, 2.34)	249	0.36
Millard Fillmore Hosp	43	0	0.00	1.32	0.00	(0.00, 5.89)	21	0.00
Haq S	165	1	0.61	0.67	0.83	(0.01, 4.62)	163	0.55
NY Methodist Hospital	151	1	0.66	0.71	0.85	(0.01, 4.71)	149	0.56
NYP- Columbia Presby.	14	0	0.00	0.16	0.00	(0.00,100.0)	14	0.00
Hasan C	404	0	0.00	0.28	0.00	(0.00, 2.91)	403	0.00
Mount Sinai Hospital	401	0	0.00	0.28	0.00	(0.00, 2.93)	400	0.00
NY Hospital - Queens	1	0	0.00	0.13	0.00	(0.00,100.0)	1	0.00
SVMC- St. Vincents ¹	2	0	0.00	0.31	0.00	(0.00,100.0)	2	0.00
Hjemdahl-Monsen C	530	7	1.32	1.10	1.10	(0.44, 2.26)	462	0.44
NYP- Columbia Presby.	39	1	2.56	1.03	2.26	(0.03,12.59)	33	0.00
Westchester Med Ctr	491	6	1.22	1.10	1.01	(0.37, 2.20)	429	0.46
Hormozi S	927	4	0.43	0.71	0.55	(0.15, 1.42)	792	0.38
Good Sam - West Islip	473	3	0.63	0.58	0.99	(0.20, 2.89)	425	0.44
North Shore Univ Hosp	102	1	0.98	0.47	1.89	(0.02,10.52)	99	1.58
South Nassau Com. Hosp	21	0	0.00	3.14	0.00	(0.00, 5.06)	8	0.00
Southside Hospital	225	0	0.00	0.79	0.00	(0.00, 1.87)	179	0.00
St. Catherine of Siena	86	0	0.00	0.93	0.00	(0.00, 4.17)	61	0.00
Winthrop Univ. Hosp	20	0	0.00	0.51	0.00	(0.00,32.59)	20	0.00
Hoyek W	579	6	1.04	0.81	1.17	(0.43, 2.55)	514	0.56
Lutheran Medical Ctr	56	2	3.57	1.39	2.34	(0.26, 8.45)	35	0.00
NY Methodist Hospital	306	1	0.33	0.42	0.71	(0.01, 3.98)	305	0.47
Staten Island Univ Hosp	217	3	1.38	1.20	1.05	(0.21, 3.06)	174	0.83
Iqbal S	325	3	0.92	0.98	0.85	(0.17, 2.50)	256	0.00
Bellevue Hospital Ctr	298	3	1.01	0.99	0.92	(0.19, 2.70)	237	0.00
NYU Hospitals Center	27	0	0.00	0.88	0.00	(0.00,14.12)	19	0.00
Irobunda C	122	1	0.82	0.47	1.60	(0.02, 8.93)	120	0.95
NYP- Columbia Presby.	120	1	0.83	0.47	1.63	(0.02, 9.08)	119	0.96
White Plains Hospital	2	0	0.00	0.46	0.00	(0.00,100.0)	1	0.00
Iyer V	256	5	1.95	1.44	1.24	(0.40, 2.89)	170	2.26 *
Buffalo General Hosp	198	5	2.53	1.22	1.88	(0.61, 4.39)	154	2.47 *
Erie County Med Ctr	46	0	0.00	1.93	0.00	(0.00, 3.76)	14	0.00
Millard Fillmore Hosp	12	0	0.00	3.07	0.00	(0.00, 9.08)	2	0.00
Jafar M	622	4	0.64	0.90	0.65	(0.17, 1.66)	482	0.60
St. Lukes Crnwll-Newbrg	11	0	0.00	0.62	0.00	(0.00,49.00)	9	0.00
Vassar Bros. Med Ctr	611	4	0.65	0.91	0.66	(0.18, 1.68)	473	0.61
Jain S	518	9	1.74	1.59	1.00	(0.46, 1.89)	385	0.70
Jamaica Hosp Med Ctr	164	7	4.27	3.35	1.16	(0.47, 2.40)	42	2.81
Lenox Hill Hospital	354	2	0.56	0.77	0.67	(0.07, 2.41)	343	0.51

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Jauhar R	1502	8	0.53	0.68	0.71	(0.31, 1.41)	1306	0.60
Long Island Jewish MC	1478	8	0.54	0.66	0.75	(0.32, 1.48)	1305	0.60
North Shore Univ Hosp	24	0	0.00	2.12	0.00	(0.00, 6.58)	1	0.00
Jayasundera T	308	0	0.00	0.29	0.00	(0.00, 3.76)	308	0.00
Mount Sinai Hospital	7	0	0.00	0.82	0.00	(0.00,57.99)	7	0.00
NYU Hospitals Center	301	0	0.00	0.28	0.00	(0.00, 4.02)	301	0.00
John S	205	1	0.49	0.60	0.74	(0.01, 4.12)	197	0.52
Brookdale Hosp Med Ctr	1	0	0.00	0.33	0.00	(0.00,100.0)	1	0.00
NY Methodist Hospital	17	0	0.00	0.40	0.00	(0.00,48.91)	17	0.00
Univ. Hosp-Brooklyn	187	1	0.53	0.62	0.79	(0.01, 4.38)	179	0.55
Johnson M	338	4	1.18	0.72	1.49	(0.40, 3.81)	282	0.45
Bronx-Lebanon-Cncourse	22	3	13.64	2.43	5.11 *	(1.03,14.92)	2	0.00
Montefiore - Moses	185	0	0.00	0.65	0.00	(0.00, 2.77)	155	0.00
NYP- Columbia Presby.	125	1	0.80	0.51	1.42	(0.02, 7.93)	123	0.87
White Plains Hospital	6	0	0.00	1.11	0.00	(0.00,50.08)	2	0.00
Kaki A	143	2	1.40	0.80	1.59	(0.18, 5.75)	111	0.00
Jamaica Hosp Med Ctr	13	2	15.38	1.85	7.57	(0.85,27.33)	1	0.00
Lenox Hill Hospital	130	0	0.00	0.69	0.00	(0.00, 3.70)	110	0.00
Kalapatapu K	1054	8	0.76	1.04	0.67	(0.29, 1.31)	927	0.36
NYP- Columbia Presby.	50	0	0.00	0.61	0.00	(0.00,11.03)	49	0.00
Orange Regional Med Ctr	164	2	1.22	0.77	1.44	(0.16, 5.20)	161	1.08
Westchester Med Ctr	809	6	0.74	1.13	0.60	(0.22, 1.30)	691	0.23
White Plains Hospital	31	0	0.00	0.67	0.00	(0.00,16.20)	26	0.00
Kamran M	984	5	0.51	0.80	0.58	(0.19, 1.35)	765	0.75
Elmhurst Hospital Ctr	914	4	0.44	0.83	0.48	(0.13, 1.24)	695	0.63
Mount Sinai Hospital	70	1	1.43	0.45	2.91	(0.04,16.17)	70	1.73
Kandov R	164	4	2.44	2.20	1.01	(0.27, 2.59)	107	0.00
Lutheran Medical Ctr	27	2	7.41	4.82	1.40	(0.16, 5.06)	12	0.00
Staten Island Univ Hosp	137	2	1.46	1.68	0.79	(0.09, 2.86)	95	0.00
Kantrowitz N	277	4	1.44	1.13	1.17	(0.31, 2.99)	202	0.53
Beth Israel Med Ctr	9	0	0.00	0.49	0.00	(0.00,75.22)	9	0.00
Maimonides Medical Ctr	23	0	0.00	1.72	0.00	(0.00, 8.45)	23	0.00
Univ. Brooklyn @ LICH	245	4	1.63	1.09	1.36	(0.37, 3.48)	170	0.86
Kaplan B	1545	9	0.58	0.78	0.68	(0.31, 1.29)	1370	0.46
Long Island Jewish MC	1513	9	0.59	0.73	0.74	(0.34, 1.41)	1368	0.46
North Shore Univ Hosp	32	0	0.00	3.30	0.00	(0.00, 3.16)	2	0.00
Katz S	482	4	0.83	1.26	0.60	(0.16, 1.54)	359	0.00
Long Island Jewish MC	33	0	0.00	1.85	0.00	(0.00, 5.47)	7	0.00
North Shore Univ Hosp	449	4	0.89	1.21	0.67	(0.18, 1.71)	352	0.00
Kelberman M	492	4	0.81	0.74	1.00	(0.27, 2.57)	436	0.66
Faxton - St. Lukes	16	1	6.25	1.59	3.58	(0.05,19.90)	9	0.00
St. Elizabeth Med Ctr	476	3	0.63	0.71	0.81	(0.16, 2.37)	427	0.70

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Keller N	23	0	0.00	3.39	0.00	(0.00, 4.28)	5	0.00
Bellevue Hospital Ctr	15	0	0.00	2.82	0.00	(0.00, 7.91)	4	0.00
NYU Hospitals Center	8	0	0.00	4.48	0.00	(0.00, 9.33)	1	0.00
Kesanakurthy S	1410	12	0.85	0.58	1.34	(0.69, 2.34)	1391	0.97
Lenox Hill Hospital	322	1	0.31	0.39	0.73	(0.01, 4.04)	317	0.48
Mount Sinai Hospital	69	0	0.00	0.20	0.00	(0.00,24.73)	69	0.00
NY Methodist Hospital	1	0	0.00	0.22	0.00	(0.00,100.0)	1	0.00
NYP- Columbia Presby.	728	8	1.10	0.75	1.34	(0.58, 2.64)	717	1.00
NYP- Weill Cornell	288	3	1.04	0.46	2.06	(0.41, 6.03)	285	1.40
Univ. Brooklyn @ LICH	2	0	0.00	0.37	0.00	(0.00,100.0)	2	0.00
Khan S	303	2	0.66	0.63	0.96	(0.11, 3.47)	283	0.83
St. Catherine of Siena	46	0	0.00	1.16	0.00	(0.00, 6.27)	29	0.00
Univ. Hosp-Stony Brook	257	2	0.78	0.53	1.34	(0.15, 4.84)	254	0.89
Kim M	1922	18	0.94	0.92	0.92	(0.55, 1.46)	1836	0.52
Elmhurst Hospital Ctr	42	0	0.00	2.13	0.00	(0.00, 3.73)	6	0.00
Mount Sinai Hospital	1880	18	0.96	0.90	0.97	(0.58, 1.54)	1830	0.52
Kodali S	459	10	2.18	1.05	1.89	(0.90, 3.48)	421	1.40*
NYP- Columbia Presby.	451	10	2.22	1.05	1.92 *	(0.92, 3.54)	417	1.40*
White Plains Hospital	8	0	0.00	1.02	0.00	(0.00,40.91)	4	0.00
Koss J	442	5	1.13	1.03	1.00	(0.32, 2.33)	385	0.71
Long Island Jewish MC	247	3	1.21	0.75	1.47	(0.30, 4.31)	231	1.26
NY Hospital - Queens	38	1	2.63	1.38	1.73	(0.02, 9.64)	26	0.00
North Shore Univ Hosp	92	0	0.00	1.09	0.00	(0.00, 3.32)	80	0.00
St. Francis Hospital	65	1	1.54	1.80	0.78	(0.01, 4.34)	48	0.00
Kukar A	288	3	1.04	0.88	1.08	(0.22, 3.16)	259	0.32
Jamaica Hosp Med Ctr	16	1	6.25	1.78	3.20	(0.04,17.79)	.	.
Lenox Hill Hospital	272	2	0.74	0.82	0.81	(0.09, 2.94)	259	0.32
Kwan T	650	1	0.15	0.39	0.36	(0.00, 1.98)	648	0.00
Beth Israel Med Ctr	645	1	0.16	0.40	0.36	(0.00, 1.99)	643	0.00
SVMC- St. Vincents ¹	5	0	0.00	0.22	0.00	(0.00,100.0)	5	0.00
Lasic Z	496	8	1.61	1.32	1.12	(0.48, 2.20)	357	0.25
Jamaica Hosp Med Ctr	157	8	5.10	2.69	1.73	(0.74, 3.40)	26	6.44
Lenox Hill Hospital	339	0	0.00	0.68	0.00	(0.00, 1.45)	331	0.00
Lederman S	250	1	0.40	0.81	0.45	(0.01, 2.51)	239	0.00
North Shore Univ Hosp	19	0	0.00	0.38	0.00	(0.00,46.38)	19	0.00
Univ. Hosp-Stony Brook	231	1	0.43	0.84	0.47	(0.01, 2.60)	220	0.00
Lee A	543	6	1.10	1.18	0.86	(0.31, 1.86)	397	0.54
Long Island Jewish MC	26	1	3.85	2.81	1.25	(0.02, 6.94)	3	0.00
North Shore Univ Hosp	517	5	0.97	1.09	0.81	(0.26, 1.88)	394	0.54
Lee P C	173	1	0.58	0.77	0.69	(0.01, 3.81)	153	0.88
Beth Israel Med Ctr	31	0	0.00	0.24	0.00	(0.00,45.59)	31	0.00
Lutheran Medical Ctr	42	0	0.00	1.78	0.00	(0.00, 4.47)	22	0.00
Mount Sinai Hospital	100	1	1.00	0.51	1.79	(0.02, 9.97)	100	1.16

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Lee P J	978	13	1.33	0.54	2.23 *	(1.18, 3.81)	879	1.49 *
Good Sam - West Islip	472	4	0.85	0.51	1.50	(0.40, 3.85)	417	0.99
North Shore Univ Hosp	18	2	11.11	0.60	17.00 *	(1.91,61.36)	18	8.81 *
Southside Hospital	399	7	1.75	0.57	2.80 *	(1.12, 5.76)	355	1.93
St. Francis Hospital	89	0	0.00	0.57	0.00	(0.00, 6.58)	89	0.00
Ling F	489	5	1.02	1.36	0.69	(0.22, 1.60)	350	0.24
Strong Memorial Hosp	469	4	0.85	1.34	0.58	(0.16, 1.49)	333	0.24
Unity Hospital	20	1	5.00	1.74	2.62	(0.03,14.55)	17	0.00
Liou M	248	1	0.40	0.46	0.81	(0.01, 4.49)	247	0.62
Beth Israel Med Ctr	171	1	0.58	0.53	1.00	(0.01, 5.56)	170	0.76
NYU Hospitals Center	76	0	0.00	0.27	0.00	(0.00,16.33)	76	0.00
SVMC- St. Vincents ¹	1	0	0.00	1.42	0.00	(0.00,100.0)	1	0.00
Lituchy A	569	2	0.35	0.91	0.35	(0.04, 1.27)	522	0.00 **
South Nassau Com. Hosp	11	0	0.00	1.54	0.00	(0.00,19.79)	5	0.00
St. Francis Hospital	558	2	0.36	0.90	0.36	(0.04, 1.32)	517	0.00 **
MacIsaac H	778	11	1.41	1.18	1.09	(0.54, 1.96)	658	0.71
Faxton - St. Lukes	41	3	7.32	1.88	3.54	(0.71,10.35)	22	4.91
St. Elizabeth Med Ctr	737	8	1.09	1.14	0.87	(0.37, 1.71)	636	0.58
Macina A	26	1	3.85	1.21	2.90	(0.04,16.16)	7	0.00
Albany Medical Center	25	1	4.00	1.18	3.10	(0.04,17.26)	7	0.00
St. Peters Hospital	1	0	0.00	2.01	0.00	(0.00,100.0)	.	.
Madrid A	270	2	0.74	1.06	0.63	(0.07, 2.29)	230	0.00
St. Catherine of Siena	9	0	0.00	4.36	0.00	(0.00, 8.51)	.	.
St. Francis Hospital	261	2	0.77	0.95	0.73	(0.08, 2.65)	230	0.00
Marchant D	237	0	0.00	1.13	0.00	(0.00, 1.24)	145	0.00
Long Island Jewish MC	19	0	0.00	1.95	0.00	(0.00, 9.01)	5	0.00
North Shore Univ Hosp	218	0	0.00	1.06	0.00	(0.00, 1.44)	140	0.00
Masud A	503	2	0.40	0.71	0.51	(0.06, 1.84)	457	0.00
Buffalo General Hosp	163	1	0.61	0.53	1.05	(0.01, 5.82)	149	0.00
Millard Fillmore Hosp	340	1	0.29	0.79	0.34	(0.00, 1.88)	308	0.00
Mathew T C	570	6	1.05	0.79	1.21	(0.44, 2.64)	482	1.41
Faxton - St. Lukes	323	1	0.31	0.70	0.40	(0.01, 2.23)	265	0.67
St. Elizabeth Med Ctr	247	5	2.02	0.91	2.04	(0.66, 4.75)	217	1.96
Menegus M	661	9	1.36	1.02	1.22	(0.56, 2.32)	493	0.96
Montefiore - Moses	659	9	1.37	1.02	1.23	(0.56, 2.33)	492	0.96
St. Barnabas Hospital	2	0	0.00	1.48	0.00	(0.00,100.0)	1	0.00
Messinger D	234	3	1.28	1.07	1.09	(0.22, 3.18)	225	0.72
NYP- Weill Cornell	168	3	1.79	1.29	1.26	(0.25, 3.69)	164	0.84
Westchester Med Ctr	52	0	0.00	0.54	0.00	(0.00,11.96)	51	0.00
White Plains Hospital	14	0	0.00	0.49	0.00	(0.00,48.66)	10	0.00
Morris W	998	11	1.10	0.69	1.45	(0.72, 2.60)	910	0.88
Buffalo General Hosp	985	11	1.12	0.67	1.51	(0.75, 2.71)	910	0.88
Millard Fillmore Hosp	13	0	0.00	2.04	0.00	(0.00,12.63)	.	.

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Moses J	1640	4	0.24	0.53	0.42	(0.11, 1.06)	1638	0.26
NYP- Columbia Presby.	1554	4	0.26	0.54	0.44	(0.12, 1.12)	1552	0.27
NYP- Weill Cornell	86	0	0.00	0.48	0.00	(0.00, 8.02)	86	0.00
Musso J	15	0	0.00	0.21	0.00	(0.00,100.0)	15	0.00
Long Island Jewish MC	12	0	0.00	0.21	0.00	(0.00,100.0)	12	0.00
Winthrop Univ. Hosp	3	0	0.00	0.18	0.00	(0.00,100.0)	3	0.00
Narins C	595	4	0.67	0.80	0.77	(0.21, 1.97)	443	0.26
Strong Memorial Hosp	554	4	0.72	0.82	0.80	(0.21, 2.04)	404	0.28
Unity Hospital	41	0	0.00	0.44	0.00	(0.00,18.72)	39	0.00
Nassif R	279	6	2.15	0.58	3.40 *	(1.24, 7.39)	251	2.48 *
Faxton - St. Lukes	150	3	2.00	0.51	3.57	(0.72,10.44)	132	4.57 *
St. Elizabeth Med Ctr	129	3	2.33	0.66	3.23	(0.65, 9.45)	119	1.04
Nguyen T	24	0	0.00	0.23	0.00	(0.00,61.37)	24	0.00
Mount Sinai Hospital	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
NYU Hospitals Center	20	0	0.00	0.22	0.00	(0.00,74.97)	20	0.00
SVMC- St. Vincents ¹	3	0	0.00	0.29	0.00	(0.00,100.0)	3	0.00
Ong L S	1783	21	1.18	0.85	1.26	(0.78, 1.92)	1635	0.82
Rochester General Hosp	1755	21	1.20	0.84	1.30	(0.81, 1.99)	1612	0.83
Unity Hospital	28	0	0.00	1.81	0.00	(0.00, 6.59)	23	0.00
Ong L Y	670	2	0.30	0.81	0.34	(0.04, 1.22)	584	0.37
Long Island Jewish MC	10	0	0.00	1.82	0.00	(0.00,18.38)	3	0.00
North Shore Univ Hosp	660	2	0.30	0.79	0.35	(0.04, 1.26)	581	0.37
Palkhiwala S	722	3	0.42	0.43	0.89	(0.18, 2.59)	721	0.53
Lenox Hill Hospital	38	0	0.00	0.20	0.00	(0.00,44.67)	38	0.00
Mount Sinai Hospital	684	3	0.44	0.44	0.91	(0.18, 2.66)	683	0.54
Papadacos S	757	7	0.92	0.91	0.92	(0.37, 1.90)	710	0.81
Lenox Hill Hospital	407	3	0.74	0.39	1.74	(0.35, 5.09)	403	1.10
NY Hospital - Queens	208	4	1.92	2.17	0.81	(0.22, 2.07)	168	0.90
North Shore Univ Hosp	141	0	0.00	0.60	0.00	(0.00, 3.98)	138	0.00
St. Francis Hospital	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
Papaleo R	626	8	1.28	0.54	2.16 *	(0.93, 4.27)	582	1.11
Albany Medical Center	601	7	1.16	0.48	2.20	(0.88, 4.54)	574	1.12
Glens Falls Hospital	11	1	9.09	3.57	2.32	(0.03,12.90)	1	0.00
St. Peters Hospital	14	0	0.00	0.58	0.00	(0.00,41.31)	7	0.00
Papandrea L	221	2	0.90	0.74	1.12	(0.13, 4.04)	184	1.66
Albany Medical Center	22	0	0.00	2.95	0.00	(0.00, 5.14)	8	0.00
St. Peters Hospital	199	2	1.01	0.49	1.86	(0.21, 6.72)	176	1.83
Parikh M	985	1	0.10	0.69	0.13 **	(0.00, 0.75)	958	0.11
Lenox Hill Hospital	656	1	0.15	0.63	0.22	(0.00, 1.22)	644	0.16
NYP- Columbia Presby.	329	0	0.00	0.80	0.00	(0.00, 1.27)	314	0.00

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Patcha R	252	2	0.79	0.79	0.91	(0.10, 3.28)	204	1.37
Huntington Hospital	80	0	0.00	1.42	0.00	(0.00, 2.95)	37	0.00
North Shore Univ Hosp	151	1	0.66	0.54	1.12	(0.01, 6.24)	146	0.83
St. Francis Hospital	21	1	4.76	0.27	15.93	(0.21,88.63)	21	11.21
Patel A	379	1	0.26	1.12	0.22	(0.00, 1.20)	313	0.00
Faxton - St. Lukes	14	1	7.14	1.57	4.14	(0.05,23.04)	5	0.00
St. Elizabeth Med Ctr	365	0	0.00	1.10	0.00 **	(0.00, 0.83)	308	0.00
Patel R B	498	3	0.60	0.77	0.71	(0.14, 2.08)	386	0.40
Good Sam - West Islip	122	0	0.00	0.74	0.00	(0.00, 3.71)	85	0.00
North Shore Univ Hosp	5	0	0.00	0.53	0.00	(0.00,100.0)	5	0.00
Southside Hospital	252	2	0.79	0.60	1.20	(0.13, 4.33)	209	0.79
St. Catherine of Siena	119	1	0.84	1.18	0.65	(0.01, 3.63)	87	0.00
Patel T	1191	21	1.76	1.11	1.44	(0.89, 2.21)	985	1.25 *
Rochester General Hosp	312	8	2.56	1.23	1.90	(0.82, 3.74)	290	1.30
Unity Hospital	879	13	1.48	1.07	1.26	(0.67, 2.15)	695	1.19
Petrosian G	1189	10	0.84	0.93	0.82	(0.39, 1.51)	1151	0.51
South Nassau Com. Hosp	64	1	1.56	0.99	1.44	(0.02, 8.01)	59	0.00
St. Francis Hospital	1125	9	0.80	0.93	0.78	(0.36, 1.49)	1092	0.52
Phadke K	915	6	0.66	1.05	0.57	(0.21, 1.24)	730	0.31
Buffalo General Hosp	21	1	4.76	5.92	0.73	(0.01, 4.08)	1	0.00
Erie County Med Ctr	9	0	0.00	3.80	0.00	(0.00, 9.77)	5	0.00
Millard Fillmore Hosp	885	5	0.56	0.91	0.57	(0.18, 1.33)	724	0.31
Polena S	209	4	1.91	0.84	2.09	(0.56, 5.34)	183	1.93
Huntington Hospital	91	2	2.20	0.97	2.06	(0.23, 7.43)	65	3.70
Long Island Jewish MC	14	0	0.00	1.13	0.00	(0.00,21.19)	14	0.00
North Shore Univ Hosp	104	2	1.92	0.68	2.59	(0.29, 9.35)	104	1.55
Pucillo A	371	7	1.89	1.06	1.62	(0.65, 3.34)	321	1.64 *
NYP- Columbia Presby.	24	0	0.00	0.54	0.00	(0.00,25.97)	23	0.00
Westchester Med Ctr	347	7	2.02	1.10	1.67	(0.67, 3.45)	298	1.74 *
Puma A	275	3	1.09	0.44	2.28	(0.46, 6.66)	253	0.70
Jamaica Hosp Med Ctr	12	2	16.67	1.68	9.04 *	(1.02,32.64)	.	.
Lenox Hill Hospital	263	1	0.38	0.38	0.91	(0.01, 5.08)	253	0.70
Pyo R	289	5	1.73	0.90	1.75	(0.56, 4.09)	250	1.79
Elmhurst Hospital Ctr	25	1	4.00	2.86	1.28	(0.02, 7.10)	2	0.00
Good Sam - Suffern	38	1	2.63	0.80	3.01	(0.04,16.73)	35	2.18
Lutheran Medical Ctr	4	0	0.00	2.81	0.00	(0.00,29.77)	.	.
Mount Sinai Hospital	222	3	1.35	0.66	1.86	(0.37, 5.42)	213	1.71
Raza J	560	7	1.25	1.27	0.90	(0.36, 1.85)	435	0.38
Jamaica Hosp Med Ctr	147	4	2.72	2.89	0.86	(0.23, 2.20)	30	0.00
Lenox Hill Hospital	413	3	0.73	0.69	0.96	(0.19, 2.79)	405	0.40

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Rehman A	513	8	1.56	0.94	1.52	(0.65, 2.99)	448	0.77
North Shore Univ Hosp	6	0	0.00	0.42	0.00	(0.00,100.0)	6	0.00
South Nassau Com. Hosp	88	2	2.27	1.85	1.12	(0.13, 4.04)	53	0.00
St. Francis Hospital	419	6	1.43	0.75	1.74	(0.63, 3.78)	389	0.84
Reich D	726	4	0.55	0.57	0.89	(0.24, 2.27)	640	0.53
Good Sam - West Islip	393	2	0.51	0.57	0.82	(0.09, 2.95)	339	1.20
North Shore Univ Hosp	19	0	0.00	0.41	0.00	(0.00,43.18)	19	0.00
Southside Hospital	234	2	0.85	0.60	1.29	(0.15, 4.67)	202	0.00
St. Francis Hospital	80	0	0.00	0.49	0.00	(0.00, 8.48)	80	0.00
Rosenband M	362	6	1.66	0.81	1.86	(0.68, 4.05)	330	1.50
St. Catherine of Siena	79	1	1.27	1.31	0.88	(0.01, 4.90)	61	0.00
Univ. Hosp-Stony Brook	283	5	1.77	0.67	2.39	(0.77, 5.59)	269	1.72
Rosero H	413	3	0.73	0.76	0.88	(0.18, 2.56)	373	0.63
Beth Israel Med Ctr	390	3	0.77	0.73	0.97	(0.19, 2.82)	357	0.66
Univ. Brooklyn @ LICH	23	0	0.00	1.25	0.00	(0.00,11.59)	16	0.00
Royzman R	167	1	0.60	2.23	0.24	(0.00, 1.36)	91	0.00
Lutheran Medical Ctr	23	1	4.35	5.41	0.73	(0.01, 4.07)	8	0.00
Staten Island Univ Hosp	144	0	0.00	1.72	0.00	(0.00, 1.35)	83	0.00
Rutkin B	368	2	0.54	1.21	0.41	(0.05, 1.48)	254	0.45
Long Island Jewish MC	19	0	0.00	3.80	0.00	(0.00, 4.63)	1	0.00
North Shore Univ Hosp	349	2	0.57	1.07	0.49	(0.05, 1.76)	253	0.45
Sassower M	1030	11	1.07	0.91	1.07	(0.53, 1.91)	912	0.76
Faxton - St. Lukes	25	0	0.00	1.68	0.00	(0.00, 7.96)	16	0.00
St. Elizabeth Med Ctr	1005	11	1.09	0.89	1.12	(0.56, 2.00)	896	0.78
Schwartz R	1034	1	0.10	0.73	0.12 **	(0.00, 0.67)	954	0.11
Huntington Hospital	3	0	0.00	2.60	0.00	(0.00,42.84)	.	.
North Shore Univ Hosp	76	0	0.00	0.76	0.00	(0.00, 5.80)	74	0.00
St. Francis Hospital	5	0	0.00	0.48	0.00	(0.00,100.0)	5	0.00
Winthrop Univ. Hosp	950	1	0.11	0.72	0.13 **	(0.00, 0.74)	875	0.12
Serrano-Gomez C	69	0	0.00	0.29	0.00	(0.00,16.57)	69	0.00
Elmhurst Hospital Ctr	7	0	0.00	0.29	0.00	(0.00,100.0)	7	0.00
Mount Sinai Hospital	49	0	0.00	0.31	0.00	(0.00,22.01)	49	0.00
NYU Hospitals Center	13	0	0.00	0.23	0.00	(0.00,100.0)	13	0.00
Shah N	285	3	1.05	1.23	0.78	(0.16, 2.27)	233	0.32
St. Lukes Crnwll-Newbrg	196	3	1.53	1.55	0.90	(0.18, 2.63)	150	0.41
Vassar Bros. Med Ctr	89	0	0.00	0.54	0.00	(0.00, 6.94)	83	0.00
Shapira S	328	1	0.30	0.82	0.34	(0.00, 1.88)	250	0.60
Good Sam - Suffern	57	0	0.00	0.33	0.00	(0.00,17.75)	56	0.00
Orange Regional Med Ctr	271	1	0.37	0.92	0.36	(0.00, 2.03)	194	0.77
Shaqra H	336	3	0.89	1.14	0.71	(0.14, 2.09)	232	0.00
Bronx-Lebanon-Cncourse	96	3	3.13	2.48	1.15	(0.23, 3.35)	5	0.00
Montefiore - Moses	236	0	0.00	0.60	0.00	(0.00, 2.37)	224	0.00
Montefiore - Weiler	4	0	0.00	0.84	0.00	(0.00,99.70)	3	0.00

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Shih A T	231	3	1.30	0.76	1.56	(0.31, 4.56)	211	0.44
Mount Sinai Hospital	24	0	0.00	0.36	0.00	(0.00,38.99)	22	0.00
NYU Hospitals Center	2	0	0.00	0.35	0.00	(0.00,100.0)	2	0.00
Westchester Med Ctr	205	3	1.46	0.81	1.65	(0.33, 4.81)	187	0.47
Silverman G	605	10	1.65	0.97	1.55	(0.74, 2.85)	441	1.49
Montefiore - Weiler	327	8	2.45	0.76	2.94 *	(1.27, 5.80)	266	2.63*
Orange Regional Med Ctr	264	1	0.38	1.22	0.28	(0.00, 1.58)	168	0.00
Westchester Med Ctr	14	1	7.14	1.39	4.70	(0.06,26.13)	7	0.00
Simon C	435	12	2.76	1.93	1.30	(0.67, 2.28)	380	1.08
Mount Sinai Hospital	30	1	3.33	0.99	3.07	(0.04,17.11)	30	2.12
St. Lukes at St. Lukes	405	11	2.72	2.00	1.24	(0.62, 2.22)	350	1.00
Slater J	404	4	0.99	1.10	0.82	(0.22, 2.11)	356	0.36
Bellevue Hospital Ctr	36	2	5.56	1.52	3.33	(0.37,12.01)	23	0.00
NYU Hospitals Center	351	2	0.57	1.09	0.47	(0.05, 1.71)	316	0.40
St. Lukes at St. Lukes	17	0	0.00	0.23	0.00	(0.00,85.05)	17	0.00
Slotwiner A	248	4	1.61	2.07	0.71	(0.19, 1.82)	204	0.80
Champ.Valley Phys Hosp	2	0	0.00	1.49	0.00	(0.00,100.0)	.	.
NY Methodist Hospital	2	0	0.00	1.08	0.00	(0.00,100.0)	2	0.00
NYP- Weill Cornell	244	4	1.64	2.09	0.72	(0.19, 1.83)	202	0.81
Soffer D	246	1	0.41	0.49	0.75	(0.01, 4.20)	222	0.60
Jamaica Hosp Med Ctr	18	0	0.00	1.42	0.00	(0.00,13.10)	.	.
Lenox Hill Hospital	228	1	0.44	0.42	0.96	(0.01, 5.32)	222	0.60
Srinivas V	425	5	1.18	1.09	0.98	(0.32, 2.29)	354	0.93
Montefiore - Moses	3	0	0.00	1.19	0.00	(0.00,93.35)	2	0.00
Montefiore - Weiler	421	5	1.19	1.09	0.99	(0.32, 2.32)	352	0.94
St. Barnabas Hospital	1	0	0.00	1.99	0.00	(0.00,100.0)	.	.
Stathopoulos I	100	1	1.00	0.65	1.40	(0.02, 7.80)	98	0.91
Lenox Hill Hospital	85	1	1.18	0.66	1.63	(0.02, 9.09)	83	1.04
NYP- Columbia Presby.	13	0	0.00	0.66	0.00	(0.00,38.77)	13	0.00
NYU Hospitals Center	2	0	0.00	0.31	0.00	(0.00,100.0)	2	0.00
Strizik B	415	4	0.96	1.01	0.87	(0.23, 2.23)	343	0.68
Huntington Hospital	83	1	1.20	1.55	0.71	(0.01, 3.94)	35	0.00
Long Island Jewish MC	11	0	0.00	0.75	0.00	(0.00,40.77)	11	0.00
North Shore Univ Hosp	321	3	0.93	0.88	0.97	(0.20, 2.84)	297	0.77
Stuver T	1118	12	1.07	0.92	1.06	(0.55, 1.85)	853	0.54
Rochester General Hosp	1111	12	1.08	0.92	1.07	(0.55, 1.87)	848	0.54
Unity Hospital	7	0	0.00	1.50	0.00	(0.00,31.89)	5	0.00
Suleman J	810	2	0.25	0.53	0.43	(0.05, 1.54)	807	0.28
Long Island Jewish MC	3	0	0.00	0.18	0.00	(0.00,100.0)	3	0.00
Mount Sinai Hospital	807	2	0.25	0.53	0.43	(0.05, 1.54)	804	0.28
Tandar A	78	1	1.28	2.18	0.53	(0.01, 2.98)	34	0.00
Buffalo General Hosp	68	1	1.47	1.95	0.69	(0.01, 3.82)	34	0.00
Millard Fillmore Hosp	10	0	0.00	3.76	0.00	(0.00, 8.89)	.	.

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Tsiamtsiouris T	458	5	1.09	1.45	0.68	(0.22, 1.60)	399	0.46
St. Catherine of Siena	18	0	0.00	2.47	0.00	(0.00, 7.51)	.	.
St. Francis Hospital	440	5	1.14	1.41	0.73	(0.24, 1.71)	399	0.46
Varma P	404	6	1.49	0.80	1.70	(0.62, 3.70)	353	1.11
Faxton - St. Lukes	14	1	7.14	1.08	6.02	(0.08,33.48)	11	4.09
St. Elizabeth Med Ctr	390	5	1.28	0.78	1.49	(0.48, 3.47)	342	0.90
Visco J	613	1	0.16	0.31	0.48	(0.01, 2.66)	586	0.45
Buffalo General Hosp	611	1	0.16	0.31	0.48	(0.01, 2.69)	586	0.45
Millard Fillmore Hosp	2	0	0.00	1.02	0.00	(0.00,100.0)	.	.
Weinberger J	24	0	0.00	0.33	0.00	(0.00,41.64)	24	0.00
NYP- Columbia Presby.	15	0	0.00	0.26	0.00	(0.00,85.51)	15	0.00
NYU Hospitals Center	9	0	0.00	0.46	0.00	(0.00,81.17)	9	0.00
Weinstein J	791	6	0.76	0.95	0.73	(0.27, 1.59)	714	0.64
St. Catherine of Siena	49	0	0.00	0.93	0.00	(0.00, 7.32)	31	0.00
Univ. Hosp-Stony Brook	742	6	0.81	0.95	0.78	(0.28, 1.69)	683	0.66
Wilentz J	272	0	0.00	0.66	0.00	(0.00, 1.86)	247	0.00
Beth Israel Med Ctr	1	0	0.00	0.27	0.00	(0.00,100.0)	1	0.00
Lenox Hill Hospital	265	0	0.00	0.67	0.00	(0.00, 1.88)	240	0.00
NYP- Weill Cornell	6	0	0.00	0.25	0.00	(0.00,100.0)	6	0.00
Witkes D	250	0	0.00	0.70	0.00	(0.00, 1.92)	236	0.00
North Shore Univ Hosp	117	0	0.00	0.52	0.00	(0.00, 5.48)	110	0.00
Winthrop Univ. Hosp	133	0	0.00	0.85	0.00	(0.00, 2.95)	126	0.00
Yang Y	336	2	0.60	0.62	0.88	(0.10, 3.17)	308	0.75
Jamaica Hosp Med Ctr	17	0	0.00	1.95	0.00	(0.00,10.11)	.	.
Lenox Hill Hospital	319	2	0.63	0.55	1.05	(0.12, 3.77)	308	0.75
Yatskar L	431	4	0.93	1.09	0.77	(0.21, 1.98)	349	0.90
Bellevue Hospital Ctr	214	4	1.87	1.05	1.63	(0.44, 4.16)	186	1.35
Elmhurst Hospital Ctr	109	0	0.00	1.71	0.00	(0.00, 1.79)	63	0.00
NYU Hospitals Center	108	0	0.00	0.56	0.00	(0.00, 5.57)	100	0.00
Zisfein J	468	3	0.64	1.02	0.57	(0.11, 1.67)	416	0.36
South Nassau Com. Hosp	408	2	0.49	0.92	0.48	(0.05, 1.74)	357	0.25
St. Francis Hospital	60	1	1.67	1.70	0.89	(0.01, 4.96)	59	0.70

¹ St. Vincent's cases discharged in 2009 not included in this table.

* 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 (2011) Based on Documentation in Medical Record

Patient Risk Factor	Definitions
Demographic	
<ul style="list-style-type: none"> • Body Surface Area 	<p>Body surface area (BSA) is a function of height and weight and increases for larger heights and weights. The statistical formula used to calculate BSA, measured in square meters (m²) is: $BSA = 0.0003207 \times (\text{Height})^{0.3} \times \text{Weight}^{(0.7285 - (0.0188 \times \text{LOG}(\text{Weight}))}$ where Height is height in centimeters (cm) and Weight is weight in grams (g).</p>
Hemodynamic State	
<ul style="list-style-type: none"> • Unstable 	Determined just prior to the intervention.
<ul style="list-style-type: none"> • Shock 	<p>Acute hypotension (systolic blood pressure < 80 mmHg) or low cardiac index (< 2.0 liters/min/m²), despite pharmacologic or mechanical support. All cases with this risk factor are excluded from this report.</p>
Comorbidities	
<ul style="list-style-type: none"> • Congestive Heart Failure (CHF), Current 	<p>Within 2 weeks prior to the procedure, the patient has a clinical diagnosis of CHF, and symptoms requiring treatment for CHF.</p> <p>Note: Physician diagnosis of CHF may be based on one of the following:</p> <ul style="list-style-type: none"> • Paroxysmal nocturnal dyspnea (PND) • Dyspnea on exertion (DOE) due to heart failure • Chest X-Ray showing pulmonary congestion <p>Documentation must include the presence of a diagnosis of CHF, evidence of symptoms, and treatment for CHF.</p>
<ul style="list-style-type: none"> • Congestive Heart Failure (CHF), Past 	<p>Between 2 weeks and 6 months prior to the procedure, the patient has a clinical diagnosis / past medical history of CHF and ongoing treatment for CHF.</p> <p>Note: Physician diagnosis of CHF may be based on one of the following:</p> <ul style="list-style-type: none"> • Paroxysmal nocturnal dyspnea (PND) • Dyspnea on exertion (DOE) due to heart failure • Chest X-Ray showing pulmonary congestion <p>Documentation must include a diagnosis of CHF and evidence of treatment for CHF. Patient's clinical status may be compensated.</p>
<ul style="list-style-type: none"> • Chronic Obstructive Pulmonary Disease (COPD) 	<p>Patients who:</p> <ul style="list-style-type: none"> • Require chronic (longer than three months) bronchodilator therapy to avoid disability from obstructive airway disease, <p>Or</p> <ul style="list-style-type: none"> • Have a forced expiratory volume in one second of less than 75% of the predicted value or less than 1.25 liters, <p>Or</p> <ul style="list-style-type: none"> • Have a room air PO₂ <60 or a PCO₂ >50.
<ul style="list-style-type: none"> • Malignant Ventricular Arrhythmia 	<p>Recent (within the past 14 days) sustained ventricular tachycardia requiring electrical defibrillation or conversion with intravenous antiarrhythmic agents or ventricular fibrillation requiring electrical defibrillation. Excludes V-Tach or V-Fib occurring within 6 hours of the diagnosis of a myocardial infarction and responding well to treatment.</p>

Comorbidities, *continued*

- Peripheral Vascular Disease
Angiographic demonstration of at least 50% 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. Ankle-Brachial Index <0.9 is also acceptable documentation.
- Previous Organ Transplant
The patient has had any organ transplant prior to the PCI. This includes, but is not limited to: heart, lung, kidney, and liver transplants.
- 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.

Ventricular Function

- Previous MI
Most recent myocardial infarction (MI) occurred in the specified time period before the intervention.
- ST Elevation
EKG finding of a rise in the S-T interval of >1 mm in two or more contiguous leads.
- Ejection Fraction
Value of the ejection fraction taken closest to, but before, 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.

Vessels Diseased

- Left Main Disease
The patient has at least a 50 percent blockage in the Left Main Coronary Artery.
- 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.
- Two Vessels Diseased
The patient has at least a 70 percent blockage in two 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.

2011 Hypoxic Brain Injury

- Criteria for Hypoxic Brain Injury Mortality Exclusion

Pre-PCI Criteria

1. AMI: PCI is done for Acute Myocardial Infarction;
2. CARDIAC ARREST: Documented cardiac arrest has occurred as part of initial presentation for the AMI and before the patient is brought to the cardiac catheterization laboratory (typically out-of-hospital cardiac arrest);
3. COMA: The patient had normal consciousness before the cardiac arrest, but becomes comatose, broadly defined as the failure to exhibit adequate responsiveness to external stimuli with the understanding that early after cardiac arrest this can be due to multiple factors and not just prolonged hypoxia. There is no need to “prove” anoxic / hypoxic encephalopathy at this time and indeed it cannot be “proven”;

Procedural Criteria:

NO IN-LAB DEATH: The patient survives the procedure, even if emergency surgery is done.

Post-PCI Criteria:

1. The patient has persistent, severe hypoxic encephalopathy which is present at the time of death or at the time of a decision to withdraw or withhold care. (The withdrawal of care or withholding of care may refer to cardiac or non-cardiac care.)
2. There is medical record documentation of a post-PCI consultation by Neurology or Critical Care (not a PCI physician) documenting the presence and severity of anoxic/hypoxic encephalopathy. There should be medical record documentation of at least one of the following: the consulting physician is involved in the treatment plan and supports withdrawing / withholding care around the same time that the decisions are made; the consulting physician agrees with the diagnosis of severe brain injury and notes a poor prognosis for recovery; the family requests that care be withdrawn / withheld.

MEDICAL TERMINOLOGY

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.

ST segment elevation myocardial infarction (STEMI) - This heart attack, or MI, is caused by a prolonged period of blocked blood supply and affects a large area of the heart muscle, and so causes changes on the EKG as well as in blood levels of key chemical markers.

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

Appendix 1

2011 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 2011 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 2.363. This means that a patient with CHF in the past two weeks is approximately 2.363 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 in the past two weeks who has the same other significant risk factors. The risk factors Unstable, COPD, Malignant Ventricular Arrhythmia, and Previous Organ Transplant are also interpreted in the same way.

With regard to age, the odds ratio roughly represents the number of times a patient who is over age 60 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 1.050 times the chance of dying in the hospital or within 30 days that a 67 year-old patient has, all other risk factors being the same. All patients aged 60 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.

Body surface area (BSA) is a function of height and weight and increases for larger heights and weights. This model includes terms for both BSA and BSA-squared, reflecting the complex relationship between BSA and in-hospital/30-day mortality. The quadratic function of BSA (BSA-squared) used in the statistical model reflects the fact that patients with very high and very low BSAs tend to have higher risks of in-hospital/30-day mortality than patients with intermediate levels of BSA. This functional form 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.

Ejection Fraction, which is the percentage of blood in the heart’s left ventricle that is expelled when it contracts (with more denoting a healthier heart), is subdivided into five ranges (less than 20 percent, 20 percent to 29 percent, 30 percent to 39 percent, 40 to 49 percent and 50 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 50 percent or more. Thus, a PCI patient with an ejection fraction of less than 20 percent is about 4.881 times as likely to die in the hospital or within 30 days as a patient with an ejection fraction of 50 percent or higher, all other significant risk factors being the same.

Previous MI is subdivided into eight ranges (with ST Elevation present, occurring less than six hours prior, six to eleven hours prior, twelve to twenty-three hours prior; without ST Elevation, less than six hours prior, six to eleven hours prior, twelve to twenty-three hours prior; with or without ST Elevation, one to twenty days prior; and no MI within twenty days prior to the procedure). The last range is referred to as the reference category. The odds ratio for the Previous MI ranges are relative to patients who have not had an MI within twenty days prior to PCI.

Renal Failure is subdivided into four groups. Two categories represent patients with various levels of elevated creatinine, but no dialysis. The third category includes patients with renal failure on dialysis. These groups are relative to patients who are not on dialysis and had no pre-PCI creatinine values greater than 1.5 mg/dL.

Appendix 1 Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2011 (All Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: number of years > 60	—	0.0485	<.0001	1.050
Body Surface Area	—	-2.7595	0.0006	—
Body Surface Area - squared	—	0.5468	0.0031	—
Hemodynamic State				
Unstable	0.49	2.0222	<.0001	7.555
Ventricular Function				
Ejection Fraction				
Ejection Fraction 50% or greater	72.87	— Reference —		1.000
Ejection Fraction less than 20%	0.78	1.5854	<.0001	4.881
Ejection Fraction 20-29%	3.72	1.1063	<.0001	3.023
Ejection Fraction 30-39%	7.25	0.7364	<.0001	2.088
Ejection Fraction 40-49%	15.38	0.3449	0.0091	1.412
Pre-Procedural MI				
No MI within 20 days	70.72	— Reference —		1.000
MI with ST Elevation				
MI < 6 hrs	8.61	1.7342	<.0001	5.664
MI 6-11 hrs	1.63	2.0387	<.0001	7.681
MI 12 – 23 hrs	1.00	2.5446	<.0001	12.738
MI without ST Elevation				
MI < 6 hrs	0.74	1.4694	0.0002	4.347
MI 6-11 hrs	1.00	0.2400	0.6888	1.271
MI 12 – 23 hrs	2.00	1.0372	0.0007	2.821
MI with or without ST Elevation				
MI 1-20 days	14.30	1.1447	<.0001	3.141
Comorbidities				
CHF, Current	5.46	0.8601	<.0001	2.363
COPD	6.48	0.4696	0.0019	1.599
Malignant Ventricular Arrhythmia	0.67	1.0681	<.0001	2.910
Previous Organ Transplant	0.49	1.2344	0.0018	3.436
Renal Failure				
No Renal Failure	90.05	— Reference —		1.000
Renal Failure, Creatinine 1.6-2.0 mg/dl	5.39	0.7237	<.0001	2.062
Renal Failure, Creatinine > 2.0 mg/dl	2.20	0.8515	<.0001	2.343
Renal Failure, Requiring Dialysis	2.36	1.2426	<.0001	3.465

Intercept = -3.7105

C Statistic = 0.857

Appendix 2

2011 Risk Factors For In-Hospital/30-Day Mortality For Non-Emergency PCI

Appendix 2 contains the significant pre-procedural risk factors for 2011 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 interpretation for Body Surface Area, Body Surface Area – squared, Ejection Fraction, CHF, COPD, Malignant Ventricular Arrhythmia, and Previous Organ Transplant is the same as presented in Appendix 1. Age is interpreted in roughly the same manner as in Appendix 1 except in this model each year above the age of 65 is associated with an increased risk of in-hospital/30-day mortality.

In this model, there are only two categories for Previous MI (one to fourteen days prior to PCI and no MI within fourteen days prior to the procedure). The odds ratio for the Previous MI ranges are relative to patients who have not had an MI within fourteen days prior to PCI.

In this model there are only three categories of Renal Failure, but the explanation is otherwise the same as presented in Appendix 1

Appendix 2 Multivariate Risk-Factor Equation for In-Hospital/ 30-Day Deaths During or Following PCI, 2011
(Non-Emergency Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: Number of Years > 65	—	0.0457	<.0001	1.047
Body Surface Area	—	-3.0541	0.0052	—
Body Surface Area - squared	—	0.5445	0.0335	—
Ventricular Function				
Ejection Fraction				
Ejection Fraction 50% or greater	77.07	– Reference –		1.000
Ejection Fraction less than 20%	0.66	1.2174	0.0019	3.379
Ejection Fraction 20 - 29%	3.22	1.1206	<.0001	3.067
Ejection Fraction 30 - 39%	6.00	1.0019	<.0001	2.723
Ejection Fraction 40 - 49%	13.06	0.7678	<.0001	2.155
Pre-Procedural MI				
No MI within 14 days	83.73	– Reference –		1.000
MI 1-14 days	16.27	1.1215	<.0001	3.070
Comorbidities				
CHF, Current	5.62	0.7563	<.0001	2.130
COPD	6.86	0.6842	<.0001	1.982
Malignant Ventricular Arrhythmia	0.45	1.3605	0.0005	3.898
Previous Organ Transplant	0.52	1.2303	0.0049	3.422
Renal Failure				
No Renal Failure	89.59	– Reference –		1.000
Renal Failure, Creatinine > 1.5 mg/dl	7.78	0.7811	<.0001	2.184
Renal Failure, requiring dialysis	2.63	1.2396	<.0001	3.454

Intercept = -2.5769

C Statistic = 0.834

Appendix 3

2009-2011 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 2009-2011 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. Age, Body Surface Area, Unstable, Ejection Fraction, Pre-Procedural MI, COPD, Malignant Ventricular Arrhythmia, Renal Failure, and Previous Organ Transplant are interpreted in the same manner as previously described in Appendix 1 or 2. Female Gender is interpreted in the same manner as CHF in Appendix 1.

In this model, Congestive Heart Failure is divided into three groups (patients with CHF in the past two weeks, patients with CHF before the past two weeks but not within the past two weeks, and patients with no previous CHF). The odds ratios for CHF-Current and CHF-Past are relative to patients with no CHF within the past 6 months.

Left Main Disease 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.

Number of vessels diseased is comprised of three categories in this model (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.

Appendix 3 Multivariate Risk-Factor Equation for In-Hospital / 30-Day Deaths During or Following PCI in New York State, 2009-2011 (All Cases)

Patient Risk Factors	Prevalence (%)	Logistic Regression		
		Coefficient	P value	Odds Ratio
Demographic				
Age: number of years > 60	—	0.0549	<.0001	1.056
Female Gender	31.22	0.2127	0.0010	1.237
Body Surface Area	—	-3.0028	<.0001	—
Body Surface Area - squared	—	0.6613	<.0001	—
Hemodynamic Status				
Unstable	0.46	1.7356	<.0001	5.672
Ventricular Function				
Ejection Fraction				
Ejection Fraction 50% or greater	74.17	— Reference —		1.000
Ejection Fraction less than 20%	0.74	1.2929	<.0001	3.643
Ejection Fraction 20-29%	3.57	0.8487	<.0001	2.337
Ejection Fraction 30-49%	21.52	0.3281	<.0001	1.388
Pre-Procedural MI				
No MI within 20 days	72.94	— Reference —		1.000
MI with ST Elevation				
MI < 6 hrs	8.07	2.1592	<.0001	8.665
MI 6-11 hrs	1.58	2.0938	<.0001	8.116
MI 12-23 hrs	0.90	2.4628	<.0001	11.737
MI without ST Elevation				
MI < 6 hrs	0.66	1.6244	<.0001	5.075
MI 6-11 hrs	0.90	1.3236	<.0001	3.757
MI 12-23 hrs	1.75	1.2523	<.0001	3.498
MI with or without ST Elevation				
MI 1-7 days	11.69	1.0596	<.0001	2.885
MI 8-20 days	1.51	0.8378	<.0001	2.311
Comorbidities				
Congestive Heart Failure (CHF)				
No CHF Current or Past	91.82	— Reference —		1.000
CHF, Past but not Current	2.81	0.4163	0.0012	1.516
CHF, Current	5.37	0.8993	<.0001	2.458
COPD	6.63	0.4359	<.0001	1.546
Malignant Ventricular Arrhythmia	0.62	0.9908	<.0001	2.693
Previous Organ Transplant	0.46	0.8878	0.0004	2.430
Renal Failure				
No Renal Failure	68.73	— Reference —		1.000
Creatinine 1.2 - 1.5 mg/dL	21.26	0.2358	0.0010	1.266
Creatinine 1.6 - 2.0 mg/dL	5.46	0.7238	<.0001	2.062
Creatinine > 2.0 mg/dL	2.21	1.1308	<.0001	3.098
Renal Failure, Requiring Dialysis	2.34	1.5115	<.0001	4.534
Vessels Diseased				
Left Main Disease	4.00	0.4418	<.0001	1.555
Number of Vessels Diseased				
Fewer than Two Vessels Diseased	54.46	— Reference —		1.000
Two Vessels Diseased	31.94	0.2774	<.0001	1.320
Three Vessels Diseased	13.61	0.3885	<.0001	1.475
Intercept = -3.7072				
C Statistic = 0.861				

Appendix 4

2009-2011 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 2009-2011 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. Age is represented by a linear and a quadratic (squared) term in order to improve the fit of the statistical model. The quadratic function of age reflects the fact that risk of mortality increases with increasing age at an increasing rate. In this form the odds ratios for the two terms are not meaningful in characterizing the relative risk of different patients. The Sum of Risk Factors Squared term is merely the square of the number of risk factors in Appendix 4 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 4. Multivariate Risk-Factor Equation for In-Hospital / 30-Day Deaths During or Following PCI in New York State, 2009-2011 (Non-Emergency Cases)

Patient Risk Factors	Prevalence (%)	Logistic Regression		
		Coefficient	P value	Odds Ratio
Demographic				
Age	—	-0.0706	0.0137	—
Age - squared	—	0.0008	0.0001	—
Body Surface Area	—	-3.1359	<.0001	—
Body Surface Area - squared	—	0.6642	<.0001	—
Ventricular Function				
Ejection Fraction				
Ejection Fraction 50% or greater	77.71	— Reference —	—	1.000
Ejection Fraction less than 30%	3.78	1.2009	<.0001	3.323
Ejection Fraction 30-39%	5.83	1.0778	<.0001	2.938
Ejection Fraction 40-49%	12.68	0.9799	<.0001	2.664
Pre-Procedural MI				
No MI within 20 days	84.74	— Reference —	—	1.000
MI 1- 7 days	13.52	1.4893	<.0001	4.434
MI 8-20 days	1.74	1.3461	<.0001	3.843
Comorbidities				
COPD	6.98	0.9803	<.0001	2.665
Congestive Heart Failure (CHF)				
No CHF	91.43	— Reference —	—	1.000
CHF, Past but not Current	3.08	1.0288	<.0001	2.798
CHF, Current	5.49	1.4967	<.0001	4.467
Previous Organ Transplant	0.48	1.6485	<.0001	5.199
Renal Failure				
No Renal Failure	89.61	— Reference —	—	1.000
Renal Failure, Creatinine 1.6 - 2.0 mg/dL	5.57	1.1098	<.0001	3.034
Renal Failure, Creatinine 2.1 - 2.5 mg/dL	1.27	1.4653	<.0001	4.329
Renal Failure, Creatinine > 2.5 mg/dL	0.99	1.5277	<.0001	4.608
Renal Dialysis Requiring Dialysis	2.56	1.8025	<.0001	6.065
Vessels Diseased				
Left Main Disease	4.20	0.9642	<.0001	2.623
Number of Vessels Diseased				
Fewer than Two Vessels Diseased	54.42	— Reference —	—	1.000
Two or Three Vessels Diseased	45.58	0.7048	<.0001	2.023
Sum of Risk Factors Squared	—	-0.0844	<.0001	—
Intercept = -2.1478				
C Statistic = 0.830				

Appendix 5

2009-2011 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 2009-2011 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, 2009 - 2011 (Emergency Cases)

Patient Risk Factors	Prevalence (%)	Logistic Regression		
		Coefficient	P value	Odds Ratio
Demographic				
Age: Number of years greater than 50	—	0.0503	<.0001	1.052
Body Surface Area	—	-4.6737	0.0009	—
Body Surface Area – squared	—	1.0477	0.0025	—
Hemodynamic Status				
Unstable	3.28	1.9699	<.0001	7.170
Ventricular Function				
Ejection Fraction				
Ejection Fraction 30% or greater	92.46	— Reference —	—	1.000
Ejection Fraction less than 20%	1.34	2.0766	<.0001	7.977
Ejection Fraction 20-29%	6.20	1.2747	<.0001	3.578
Pre-Procedural MI				
No STEMI within 24 hrs	24.38	— Reference —	—	1.000
STEMI within 24 hrs	75.62	1.2311	<.0001	3.425
Comorbidities				
Cerebrovascular Disease	4.80	0.7627	<.0001	2.144
CHF, Current	4.59	1.2578	<.0001	3.518
Malignant Ventricular Arrhythmia	1.91	1.4523	<.0001	4.273
Peripheral Vascular Disease	4.78	0.8832	<.0001	2.419
Renal Failure				
No Renal Failure	70.43	— Reference —	—	1.000
Renal Failure, Creatinine 1.2 - 1.5 mg/dL	21.87	0.6443	<.0001	1.905
Renal Failure , Creatinine 1.6 - 2.0 mg/dL	4.79	1.0009	<.0001	2.721
Renal Failure , Creatinine 2.1 - 3.0 mg/dL	1.43	1.3900	<.0001	4.015
Renal Failure , Creatinine > 3.0 mg/dL	0.52	1.6677	<.0001	5.300
Renal Failure Requiring Dialysis	0.96	1.8853	<.0001	6.588
Vessels Diseased				
Left Main Disease	2.81	0.9969	<.0001	2.710
Number of Vessels Diseased				
Fewer than Three Vessels Diseased	85.70	— Reference —	—	1.000
Three Vessels Diseased	14.30	0.7121	<.0001	2.038
Sum of Risk Factors Squared	—	-0.0689	0.0004	—
Intercept = -1.1237				
C Statistic = 0.840				

NEW YORK STATE PERCUTANEOUS CORONARY INTERVENTION CENTERS

Albany Medical Center Hospital 47 New Scotland Avenue, Albany, New York 12208	NYU Hospitals Center 550 First Avenue, New York, New York 10016
Arnot Ogden Medical Center 600 Roe Avenue, Elmira, New York 14905	New York Methodist Hospital 506 Sixth St., Brooklyn, New York 11215
Bellevue Hospital Center 520 First Avenue, New York, New York 10016	New York Hospital Medical Center-Queens 56-45 Main Street, Flushing, New York 11355
Beth Israel Medical Center 10 Nathan D. Perlman Place, New York, New York 10003	North Shore University Hospital 300 Community Drive, Manhasset, New York 11030
Bronx-Lebanon Hospital Center @ Concourse Division* 1650 Grand Concourse, Bronx, New York 10456	Olean General Hospital*†† 515 Main Street, Olean, New York 14760
Brookdale Hospital Medical Center* Linden Boulevard @ Brookdale Plaza, Brooklyn, New York 11212	Orange Regional Medical Center* 707 East Main Street, Middletown, New York 10940
Brookhaven Memorial Hospital Medical Center*†† 101 Hospital Road Patchogue, New York 11772	Rochester General Hospital 1425 Portland Avenue, Rochester, New York 14621
Buffalo General Hospital 100 High Street, Buffalo, New York 14203	Samaritan Hospital*†† 2215 Burdett Ave., Troy, NY 12180
Cayuga Medical Center at Ithaca* 101 Dates Drive, Ithaca, New York 14850	South Nassau Communities Hospital* One Healthy Way, Oceanside, New York 11572
Champlain Valley Physicians Hospital Medical Center 75 Beekman Street, Plattsburgh, New York 12901	Southside Hospital 301 East Main Street, Bayshore, New York 11706
Crouse Hospital 736 Irving Avenue, Syracuse, New York 13210	St. Barnabas Hospital* 4422 3 rd Avenue, Bronx, New York 10457
Ellis Hospital 1101 Nott Street, Schenectady, New York 12308	St. Catherine of Siena Hospital* 50 Route 25A, Smithtown, New York 11787
Elmhurst Hospital Center* 79-01 Broadway, Elmhurst, New York 11373	St. Elizabeth Medical Center 2209 Genesee Street, Utica, New York 13413
Erie County Medical Center 462 Grider Street, Buffalo, New York 14215	St. Francis Hospital Port Washington Boulevard, Roslyn, New York 11576
Faxton-St. Luke's Healthcare (St. Luke's Division)* Box 479, Utica, New York 13503	St. Joseph's Hospital Health Center 301 Prospect Avenue, Syracuse, New York 13203
Glens Falls Hospital* 100 Park Street, Glens Falls, New York 12801	St. Luke's Cornwall Hospital/Newburgh* 70 Dubois Street, Newburgh, New York 12550
Good Samaritan Hospital of Suffern 255 Lafayette Avenue, Suffern, New York 10901	St. Luke's Roosevelt Hospital Center 11-11 Amsterdam Avenue at 114th Street, New York, New York 10025
Good Samaritan Hospital, Medical Center* 1000 Montauk Highway, West Islip, New York 11795	St. Peter's Hospital 315 South Manning Boulevard, Albany, New York 12208
Huntington Hospital* 270 Park Ave., Huntington, New York 11743	SVCMC - St. Vincent's Manhattan** 153 West 11th Street, New York, New York 10011
Jamaica Hospital Medical Center* 89th Avenue and Van Wyck Expressway, Jamaica, New York 11418	SUNY Downstate Medical Center at Long Island College Hospital* 340 Henry Street, Brooklyn, New York 11201
Lenox Hill Hospital 100 East 77th Street, New York, New York 10021	Staten Island University Hospital 475 Seaview Avenue, Staten Island, New York 10305
Lutheran Medical Center* 150 55th Street, Brooklyn, New York 11220	Strong Memorial Hospital 601 Elmwood Avenue, Rochester, New York 14642
Long Island Jewish Medical Center 270-05 76th Avenue, New Hyde Park, New York 11040	United Health Services, Wilson Hospital Division 33-57 Harrison Street, Johnson City, New York 13790
Mary Imogene Bassett Healthcare Atwell Road, Cooperstown, New York 13326	Unity Hospital of Rochester* 1555 Long Pond Road, Rochester, New York 14626
Maimonides Medical Center 4802 Tenth Avenue, Brooklyn, New York 11219	University Hospital at Stony Brook Stony Brook, New York 11794-8410
Mercy Hospital 565 Abbott Rd, Buffalo, New York 14220	University Hospital of Brooklyn 450 Lenox Road, Brooklyn, New York 11203
Millard Fillmore Hospital*** 3 Gates Circle, Buffalo, New York 14209	University Hospital-Upstate, Medical University 750 East Adams Street, Syracuse, New York 13210
Montefiore Medical Center Henry & Lucy Moses Division 111 East 210th Street, Bronx, New York 11219	Vassar Brothers Hospital 45 Reade Place, Poughkeepsie, New York 12601
Montefiore Medical Center Weiler Hospital of, A Einstein College of Medicine 1825 Eastchester Road, Bronx, New York 10461	Westchester Medical Center Grasslands Road, Valhalla, New York 10595
Mount Sinai Medical Center One Gustave L. Levy Place, New York, New York 10019	White Plains Hospital Center* 41 East Post Road, White Plains, NY 10601
NY Presbyterian @ Columbia Presbyterian Medical Center 161 Fort Washington Avenue, New York, New York 10032	Winthrop University Hospital 259 First Street, Mineola, New York 11501
NY Presbyterian @ Weill-Cornell Medical Center 525 East 68th Street, New York, New York 10021	

* Hospital performs PCI without cardiac surgery on-site.

** Hospital closed in 2010

*** Hospital closed in 2012

†† Hospital started PCI after 2011

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