

**PERCUTANEOUS
CORONARY
INTERVENTIONS
(PCI)**

in New York State

2010-2012

October 2015



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Message from Commissioner Zucker

October 2015

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. It also includes information on hospital readmissions within 30-days of PCI. The analyses use a risk-adjustment process to account for pre-existing differences in patients' health statuses. We believe that in-hospital/30-day mortality and 30-day readmission are important quality indicators 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 2012. 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 sedentary lifestyle. Careful attention to 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.

Howard A. Zucker, M.D., J.D.
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 152,579 patients who underwent PCI in NYS hospitals and were discharged between December 1, 2009, and November 30, 2012. The analysis period for this report includes patients discharged in December 2009 but not those discharged in December 2012. 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 2012 cases includes patients discharged from December 1, 2011 through November 30, 2012. 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, 2009, and November 30, 2012, provided by all 60 non-federal hospitals in NYS where PCI was performed. In total there were 152,579 PCI procedures performed during this time period. The annual number of PCI discharges was: 54,653 in 2010; 50,530 in 2011; and 47,396 in 2012. 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 59 cases reported by this hospital with a discharge in December 2009 are excluded from all analyses. No records were reported for this hospital in 2010.

In addition, 216 records were excluded from the 2010–2012 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 564 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 103 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 preoperative 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 44. 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 564 cases account for 0.37 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.

While there were 47,045 PCI procedures cases included in the mortality analysis for 2012 discharges, some additional exclusions were required for the readmission analysis. The reasons for exclusion and number of cases affected are described below.

Records belonging to patients residing outside NYS were excluded because there is no reliable way to track out-of state readmissions. This accounted for 1863 cases. Another 268 patients were excluded because they died in the same admission as their index PCI, so readmission was impossible. Twenty patients were transferred to another hospital and died there.

In some cases, patients were readmitted for PCI

and then also had a third admission within 30 days of that procedure. No case was counted as both a readmission and an index PCI, resulting in an additional 1,949 exclusions. Finally, 19 patients were excluded because they were initially transferred to another acute care facility and their final discharge was after November 30, 2012. These patients could not be followed for 30 days because of the lack of 2013 data at the time of analysis.

In total, the number of exclusions was 4,382, leaving 42,936 cases to be examined for 30-day readmission.

NOTE ON HOSPITALS PERFORMING PCI DURING 2010–2012 PERIOD

In the 2010-2012 time period there were 19 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 18 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 2010-2012 time period. The hospital name and the month of the first PCI performed are as follows: White Plains Hospital Center - February 2010; Cayuga Medical Center at Ithaca - November 2010; St. Barnabas Hospital - June 2011; Samaritan Hospital - January 2012.

In addition, Millard Fillmore hospital closed in 2012 and performed the last PCI in March of that year.

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, are readmitted to a hospital, 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 readmission 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 and 30-Day Readmissions

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

Data on readmission are obtained from the Department of Health's acute care hospital dataset, the Statewide Planning and Research Cooperative System (SPARCS), which contains data pertaining to all acute care hospital discharges in the state. In addition, PCIRS is used to identify patients who underwent repeat PCI within 30 days but were not recorded in SPARCS because the procedure was technically considered an outpatient procedure.

Thirty-day readmission is defined as admission to a NYS non-Federal hospital within 30 days of discharge from the index hospitalization when the second admission is not for the purpose of staged PCI. For patients whose index hospitalization ends in transfer to another acute care facility, the 30 day period begins upon discharge from the second hospital. Also categorized as readmission is any non-staged PCI within 30 days of discharge, even if the second procedure is technically performed on an outpatient basis.

Admission for staged PCI or CABG is not counted in this analysis as a readmission. Staged PCI occurs when the overall treatment plan at the time of the first procedure includes an expectation for the patient to return at a later date for an additional PCI. To classify a subsequent PCI as part of a staged procedure, the hospital must be able to demonstrate the following: 1) At the time of the first PCI there was a plan for the patient to return for another PCI as part of the overall treatment strategy, 2) At the time of the second PCI there is an indication that the procedure is in follow-up to an earlier PCI as part of a staged treatment strategy, 3) None of the lesions treated in the first PCI are treated again in the second PCI, 4) The second PCI is not performed on an emergency basis due to a myocardial infarction (heart attack) or other cardiac emergency. Staged procedures

involving PCI followed by CABG are much more rare, but the definition of staging is similar. There were 927 staged PCIs and 38 staged CABGs that were not counted as readmissions.

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 death or readmission and determining how to weight the significant risk factors to predict the chance each patient will have of dying or being readmitted 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 (1.00 percent in-hospital/30-day in 2012) 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.

Predicting Patient Readmission and Computing and Interpreting Risk-Adjusted Readmission Rates

Patient risk of 30-day readmission is assessed using the same methods used for assessing mortality risk as described above. All potential risk factors are considered and those that are independently related to readmission are identified and given weights so as to best predict the risk of 30-day readmission for each patient. Observed readmission rates (ORR), expected readmission rates (ERR) and risk-adjusted readmission rates (RARR) are calculated in the same way that OMR, EMR and RAMR are calculated. ERR and RARR are compared to the statewide observed readmission rate (11.24 percent in 2012).

This analysis is based on all-cause readmission, not just readmission directly related to the PCI procedure. Not all readmissions represent a poor patient outcome or reflect poor patient care. However, by risk-adjusting and comparing the results across the many hospitals that perform this procedure we are able to look for meaningful differences from the overall statewide experience. If the

RARR is significantly lower than the statewide readmission rate, the hospital has a better performance than the state as a whole; if the RARR is significantly higher than the statewide readmission rate, the hospital has a worse performance than the state as a whole.

As described above for mortality, there are reasons that a provider's RARR may not be indicative of its true quality. Confidence intervals and careful attention to data quality are used in the same way for readmission that they are for mortality.

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.

DEFINITION OF KEY TERMS

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 (1.00 percent in-hospital/30-day mortality for all PCI patients discharged in 2012).

The **observed readmission rate (ORR)** is the observed number of 30-day readmissions divided by the total number of analyzed cases.

The **expected readmission rate (ERR)** is the sum of the predicted probabilities of readmission for all patients divided by the total number of analyzed cases.

The **risk-adjusted readmission rate (RARR)** is the best estimate, based on the statistical model, of what the provider's readmission rate would have been if the provider had a mix of patients similar to the statewide mix. It is obtained by first dividing the ORR by the ERR, and then multiplying that quotient by the statewide readmission rate (11.24 percent 30-day readmission rate for all PCI patients discharged in 2012).

Confidence intervals indicate which hospitals had significantly more or fewer deaths or readmissions 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.

2012 HOSPITAL OUTCOMES FOR PCI

Table 1 and Figures 1 and 2 present the PCI mortality results for the 60 hospitals performing PCI in NYS in 2012 for which data could be analyzed. The table contains, for each hospital, the number of PCIs resulting in 2012 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 (82.39 percent in 2012).

The overall in-hospital/30-day OMR for the 47,045 PCIs included in this 2012 analysis was 1.00 percent. Observed mortality rates ranged from 0.00 percent to 3.45 percent. The range in EMRs, which measure patient severity of illness, was between 0.54 percent and 2.43 percent. The RAMRs, which measure hospital performance, range from 0.00 percent to 2.64 percent. Based on confidence intervals for RAMRs, two hospitals (Albany Medical Center and New York Methodist Hospital in Brooklyn) had RAMRs that were significantly higher than the statewide average. One hospital (Mt. Sinai Hospital in Manhattan) had a RAMR that was 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 0.64 percent. The range of RAMRs was from 0.00 percent to 2.11 percent. Two hospitals (Albany Medical Center and New York Methodist Hospital in Brooklyn) had RAMRs that were significantly higher than the statewide average. Two hospitals (New York Presbyterian - Columbia and Mt. Sinai Hospital, both in Manhattan) had RAMRs that were

significantly lower than the statewide rate.

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

Since the 2012 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 2012 PCI discharges was 0.59 percent for the 47,045 patients included in Table 1. For the non-emergency analysis, there were 38,762 patients with an in-hospital mortality rate of 0.29 percent.

Table 2 presents the PCI 30-day readmission results for the 60 hospitals performing PCI in NYS in 2012 for which data could be analyzed. The table contains, for each hospital, the number of PCIs resulting in 2012 discharges, the number of 30-day readmissions, the ORR, the ERR based on the statistical model presented in Appendix 3, the RARR and a 95 percent confidence interval for the RARR. The overall 30-day ORR for the 42,936 PCIs included in this 2012 analysis was 11.24 percent. Observed readmission rates ranged from 3.21 percent to 22.55 percent. The range in ERRs, which measure patient severity of illness, was between 9.22 percent and 15.05 percent. The RARRs, which measure hospital performance, range from 3.84 percent to 19.84 percent.

Based on confidence intervals for RARRs, six hospitals (Good Samaritan Hospital Medical Center in West Islip, Lenox Hill Hospital in Manhattan, Montefiore Medical Center at Moses Division in the Bronx, St. Barnabas Hospital

in the Bronx, University Hospital-Brooklyn @ Long Island College Hospital, and University Hospital – Stony Brook) had RARRs that were significantly higher than the statewide average. Nine hospitals (Cayuga Medical Center in Ithaca, Champlain Valley Physicians Hospital in Plattsburgh, Crouse Hospital in Syracuse, Ellis Hospital in Schenectady, Glens Falls Hospital, St. Joseph’s Hospital in Syracuse, St. Peter’s

Hospital in Albany, Strong Memorial Hospital in Rochester and United Health Services-Wilson in Johnson City) had RARRs that were significantly lower than the statewide average.

Figure 3 provides a visual representation of the data displayed in Table 2. It is interpreted in the same way as Figures 1 and 2 described above.

Table 1**In-Hospital/30-Day Observed, Expected and Risk-Adjusted Mortality Rates for PCI in New York State, 2012 Discharges.**

(Listed Alphabetically by Hospital)

Hospital	Cases	Deaths	OMR	All Cases			95% CI for RAMR	Non-Emergency	
				EMR	RAMR	Cases		RAMR	
Albany Med. Ctr	720	23	3.19	1.21	2.64 *	(1.67, 3.96)	546	2.11 *	
Arnot Ogden Med Ctr	484	4	0.83	1.01	0.82	(0.22, 2.11)	368	0.26	
Bellevue Hospital Ctr	442	3	0.68	1.47	0.46	(0.09, 1.35)	322	0.00	
Bronx-Lebanon-Cncourse	58	2	3.45	2.43	1.42	(0.16, 5.13)	5	0.00	
Brookdale Univ Hosp Med Ctr	223	3	1.35	1.56	0.86	(0.17, 2.52)	169	0.55	
Buffalo General Hosp	1781	23	1.29	0.96	1.35	(0.85, 2.02)	1451	0.98	
Cayuga Med Ctr Ithaca	128	1	0.78	1.39	0.56	(0.01, 3.14)	73	0.00	
Champ.Valley Phys Hosp	606	11	1.82	1.13	1.61	(0.80, 2.88)	461	1.19	
Crouse Hospital	290	2	0.69	0.94	0.74	(0.08, 2.66)	205	1.12	
Ellis Hospital	498	3	0.60	1.20	0.50	(0.10, 1.47)	310	0.36	
Elmhurst Hospital Ctr	474	9	1.90	1.28	1.48	(0.68, 2.81)	338	0.42	
Erie County Med Ctr	152	0	0.00	1.66	0.00	(0.00, 1.45)	75	0.00	
Faxton – St. Lukes	231	4	1.73	1.13	1.54	(0.41, 3.94)	181	0.00	
Glens Falls Hospital	203	2	0.99	0.99	1.00	(0.11, 3.61)	134	0.00	
Good Sam – Suffern	509	10	1.96	1.38	1.42	(0.68, 2.62)	373	1.21	
Good Sam – West Islip	620	6	0.97	0.63	1.54	(0.56, 3.34)	527	0.82	
Huntington Hospital	278	1	0.36	0.69	0.52	(0.01, 2.90)	213	0.00	
Jamaica Hosp Med Ctr	250	8	3.20	1.70	1.89	(0.81, 3.72)	86	1.00	
Lenox Hill Hospital	1498	6	0.40	0.56	0.72	(0.26, 1.56)	1412	0.48	
Long Island Jewish MC	1615	13	0.80	0.79	1.03	(0.55, 1.75)	1407	0.77	
Lutheran Medical Ctr	248	0	0.00	1.34	0.00	(0.00, 1.11)	185	0.00	
M I Bassett Hospital	366	3	0.82	1.05	0.78	(0.16, 2.28)	281	0.77	
Maimonides Medical Ctr	981	7	0.71	1.39	0.51	(0.21, 1.06)	749	0.41	
Mercy Hospital	724	6	0.83	0.96	0.87	(0.32, 1.89)	523	0.91	
Millard Fillmore Hosp	80	0	0.00	0.66	0.00	(0.00, 7.01)	67	0.00	
Montefiore – Moses	681	4	0.59	0.85	0.69	(0.19, 1.77)	574	0.17	
Montefiore – Weiler	544	6	1.10	1.28	0.86	(0.31, 1.87)	405	0.46	
Mount Sinai Beth Israel	1336	10	0.75	0.85	0.88	(0.42, 1.63)	1191	0.56	
Mount Sinai Hospital	4708	16	0.34	0.57	0.60 **	(0.34, 0.97)	4571	0.36 **	
Mount Sinai St. Lukes	499	8	1.60	1.22	1.31	(0.56, 2.59)	400	1.06	
NY Hospital – Queens	642	4	0.62	0.98	0.63	(0.17, 1.62)	469	0.75	
NY Methodist Hospital	1202	19	1.58	0.70	2.25 *	(1.35, 3.51)	1132	1.65 *	
NYP – Columbia Presby.	2791	17	0.61	0.92	0.67	(0.39, 1.07)	2620	0.30 **	
NYP – Weill Cornell	1444	20	1.39	1.35	1.03	(0.63, 1.59)	1305	0.76	
NYU Hospitals Center	1145	7	0.61	0.59	1.03	(0.41, 2.13)	1085	0.63	
North Shore Univ Hosp	1232	9	0.73	1.02	0.72	(0.33, 1.37)	928	0.51	
Orange Regional Med Ctr	578	7	1.21	1.07	1.14	(0.46, 2.34)	448	0.60	
Rochester General Hosp	1647	19	1.15	1.07	1.08	(0.65, 1.69)	1303	0.51	
Samaritan Hospital	201	1	0.50	0.54	0.93	(0.01, 5.16)	153	1.21	
South Nassau Com. Hosp	526	3	0.57	0.77	0.74	(0.15, 2.17)	403	0.91	
Southside Hospital	580	5	0.86	1.03	0.84	(0.27, 1.96)	501	0.60	
St. Barnabas Hospital	114	1	0.88	0.91	0.96	(0.01, 5.34)	83	0.00	
St. Catherine of Siena	248	1	0.40	0.79	0.51	(0.01, 2.85)	190	0.59	
St. Elizabeth Med Ctr	708	9	1.27	1.35	0.94	(0.43, 1.79)	585	0.55	
St. Francis Hospital	2300	19	0.83	0.80	1.04	(0.62, 1.62)	2128	0.62	
St. Josephs Hospital	2015	15	0.74	0.88	0.85	(0.47, 1.40)	1560	0.68	
St. Lukes Cornwall Hosp	328	5	1.52	1.53	1.00	(0.32, 2.33)	261	0.66	
St. Peters Hosp.	663	8	1.21	1.03	1.17	(0.50, 2.30)	487	0.84	
Staten Island Univ Hosp	963	10	1.04	1.06	0.98	(0.47, 1.80)	803	0.35	
Strong Memorial Hosp	927	12	1.29	1.24	1.05	(0.54, 1.83)	621	0.46	
UHS – Wilson Med Ctr	702	8	1.14	1.64	0.69	(0.30, 1.37)	491	0.82	
Unity Hospital	277	7	2.53	1.41	1.79	(0.72, 3.69)	196	1.73	
Univ. Brooklyn @ LICH	235	2	0.85	0.99	0.86	(0.10, 3.11)	194	0.62	
Univ. Hosp-Brooklyn	342	5	1.46	1.46	1.00	(0.32, 2.34)	248	0.00	
Univ. Hosp-Stony Brook	1347	24	1.78	1.35	1.32	(0.85, 1.97)	948	0.79	
Univ. Hosp-Upstate	260	8	3.08	2.13	1.44	(0.62, 2.84)	157	1.57	
Vassar Bros. Med Ctr	678	10	1.47	1.12	1.32	(0.63, 2.43)	480	1.23	
Westchester Med Ctr	463	6	1.30	1.50	0.86	(0.32, 1.88)	325	0.66	
White Plains Hospital	279	5	1.79	1.75	1.03	(0.33, 2.40)	225	1.33	
Winthrop Univ. Hosp	981	11	1.12	1.31	0.86	(0.43, 1.53)	831	0.43	
Statewide Total	47045	471	1.00				38762	0.64	

*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, 2012 Discharges (All Cases)

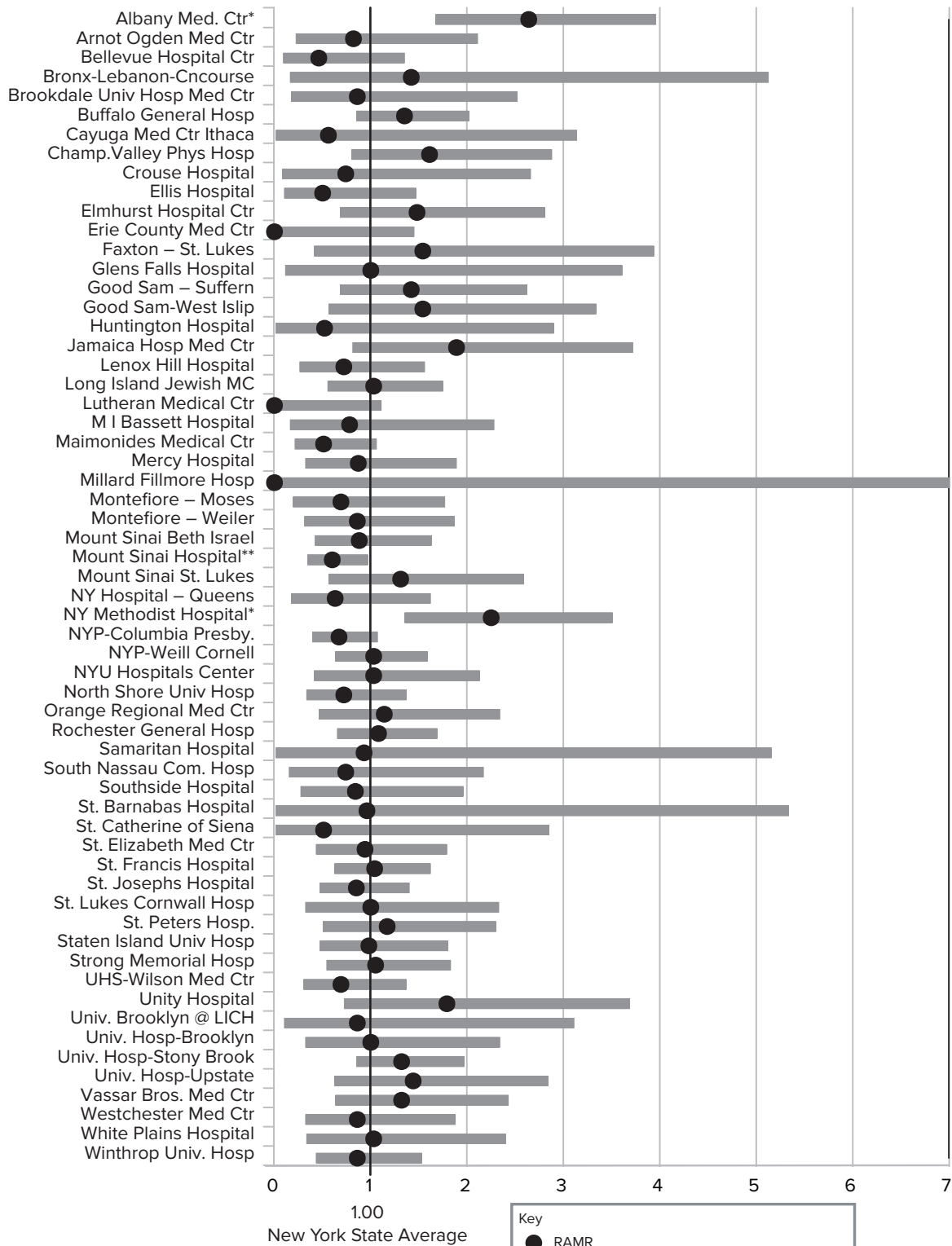


Figure 2

In-Hospital/30-Day Risk-Adjusted Mortality Rates for PCI in New York State, 2012 Discharges (Non-Emergency Cases)

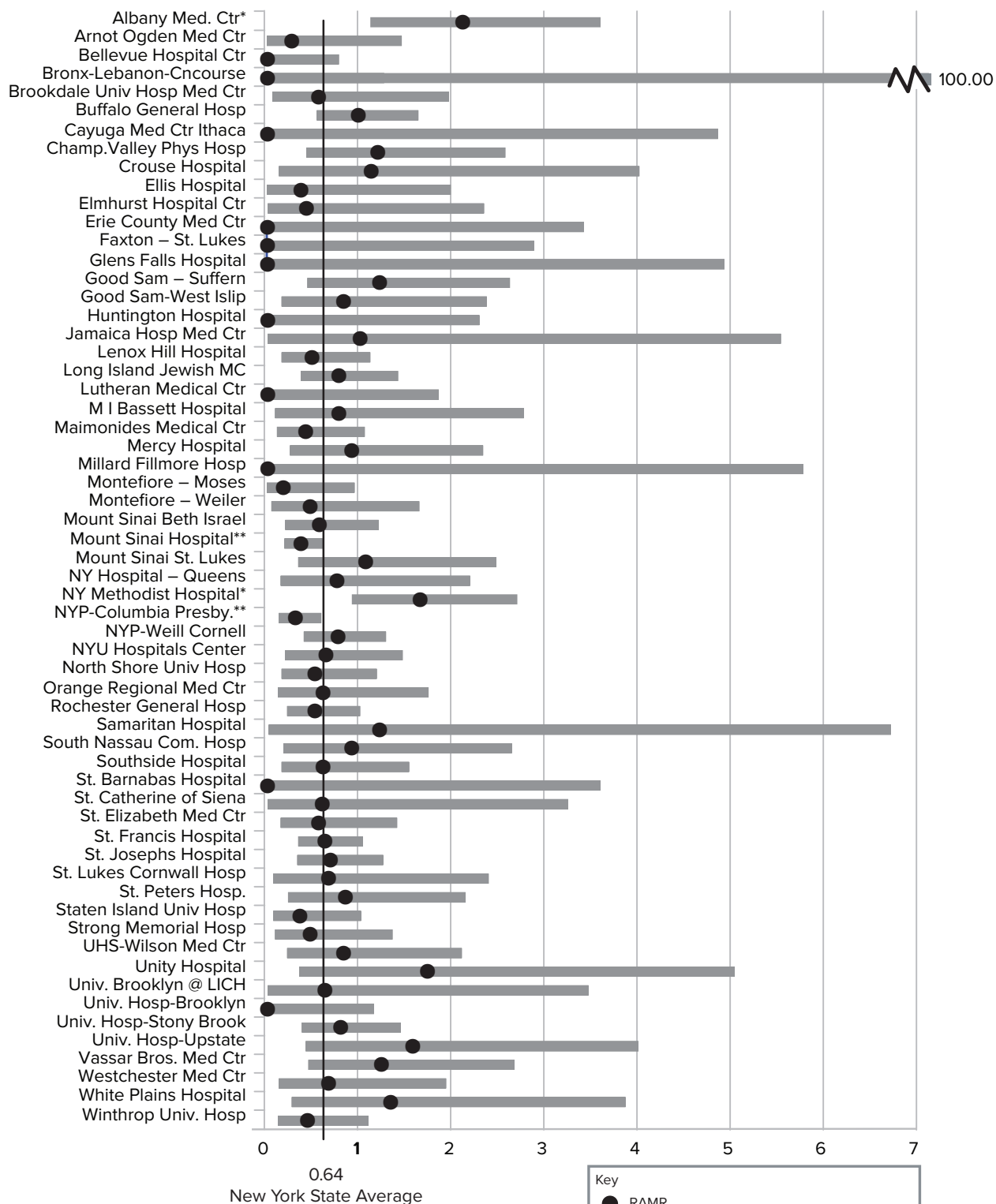


Table 2

Hospital Observed, Expected and Risk-Adjusted Readmission Rates for All PCI in New York State, 2012

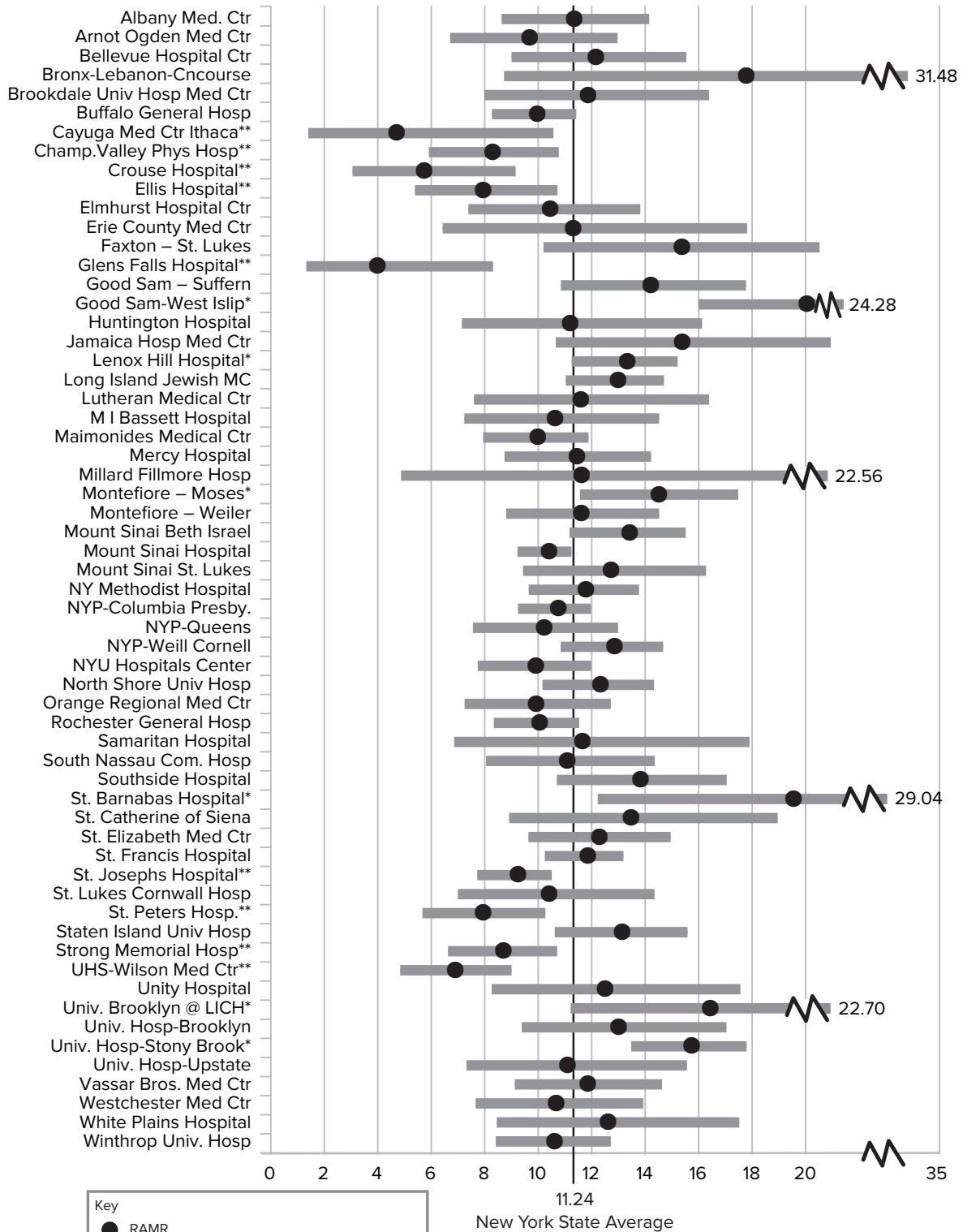
Hospital	Cases	Readmissions	ORR	All Cases		95% CI for RARR
				ERR	RARR	
Albany Med. Ctr	609	68	11.17	11.23	11.18	(8.68,14.18)
Arnot Ogden Med Ctr	418	39	9.33	11.03	9.51	(6.76,13.00)
Bellevue Hospital Ctr	416	56	13.46	12.63	11.98	(9.05,15.56)
Bronx-Lebanon-Cncourse	54	11	20.37	13.02	17.59	(8.77,31.48)
Brookdale Univ Hosp Med Ctr	211	33	15.64	15.05	11.69	(8.04,16.41)
Buffalo General Hosp	1660	156	9.40	10.78	9.80	(8.32,11.46)
Cayuga Med Ctr Ithaca	122	5	4.10	10.13	4.55 **	(1.47,10.61)
Champ.Valley Phys Hosp	585	47	8.03	11.11	8.13 **	(5.97,10.81)
Crouse Hospital	279	15	5.38	10.84	5.58 **	(3.12, 9.20)
Ellis Hospital	486	36	7.41	10.71	7.78 **	(5.45,10.76)
Elmhurst Hospital Ctr	440	43	9.77	10.68	10.28	(7.44,13.85)
Erie County Med Ctr	145	17	11.72	11.84	11.14	(6.48,17.83)
Faxton - St. Lukes	219	30	13.70	10.14	15.19	(10.2,21.68)
Glens Falls Hospital	187	6	3.21	9.39	3.84 **	(1.40, 8.36)
Good Sam - Suffern	444	68	15.32	12.27	14.03	(10.9,17.79)
Good Sam-West Islip	578	94	16.26	9.22	19.84 *	(16.0,24.28)
Huntington Hospital	265	26	9.81	10.01	11.02	(7.20,16.15)
Jamaica Hosp Med Ctr	232	37	15.95	11.79	15.20	(10.7,20.95)
Lenox Hill Hospital	1380	178	12.90	11.02	13.15 *	(11.3,15.24)
Long Island Jewish MC	1503	195	12.97	11.39	12.81	(11.1,14.73)
Lutheran Medical Ctr	244	29	11.89	11.70	11.42	(7.65,16.41)
M I Bassett Hospital	345	35	10.14	10.90	10.46	(7.29,14.55)
Maimonides Medical Ctr	928	101	10.88	12.47	9.81	(7.99,11.92)
Mercy Hospital	669	70	10.46	10.43	11.28	(8.79,14.25)
Millard Fillmore Hosp	76	8	10.53	10.34	11.45	(4.93,22.56)
Montefiore - Moses	643	96	14.93	11.72	14.33 *	(11.6,17.50)
Montefiore - Weiler	527	66	12.52	12.31	11.44	(8.85,14.55)
Mount Sinai Beth Israel	1197	150	12.53	10.64	13.24	(11.2,15.54)
Mount Sinai Hospital	4015	409	10.19	11.19	10.24	(9.27,11.28)
Mount Sinai St. Lukes	427	56	13.11	11.75	12.55	(9.48,16.30)
NY Hospital - Queens	616	57	9.25	10.35	10.05	(7.61,13.02)
NY Methodist Hospital	1121	128	11.42	11.06	11.61	(9.69,13.80)
NYP-Columbia Presby.	2207	242	10.97	11.65	10.58	(9.29,12.01)
NYP-Weill Cornell	1222	176	14.40	12.77	12.68	(10.9,14.70)
NYU Hospitals Center	1001	86	8.59	9.92	9.74	(7.79,12.02)
North Shore Univ Hosp	1178	137	11.63	10.77	12.15	(10.2,14.36)
Orange Regional Med Ctr	535	53	9.91	11.43	9.75	(7.30,12.75)
Rochester General Hosp	1588	155	9.76	11.10	9.88	(8.39,11.57)
Samaritan Hospital	191	19	9.95	9.75	11.48	(6.91,17.92)
South Nassau Com. Hosp	499	50	10.02	10.32	10.91	(8.10,14.39)
Southside Hospital	543	76	14.00	11.54	13.64	(10.7,17.07)
St. Barnabas Hospital	102	23	22.55	13.10	19.35 *	(12.3,29.04)
St. Catherine of Siena	234	30	12.82	10.85	13.29	(8.96,18.97)
St. Elizabeth Med Ctr	634	85	13.41	12.44	12.11	(9.68,14.98)
St. Francis Hospital	2156	253	11.73	11.29	11.68	(10.3,13.22)
St. Josephs Hospital	1851	171	9.24	11.44	9.08 **	(7.77,10.55)
St. Lukes Cornwall Hosp	307	33	10.75	11.80	10.24	(7.05,14.38)
St. Peters Hosp.	637	48	7.54	10.90	7.78 **	(5.73,10.31)
Staten Island Univ Hosp	887	111	12.51	10.86	12.96	(10.7,15.61)
Strong Memorial Hosp	894	72	8.05	10.61	8.53 **	(6.68,10.75)
UHS-Wilson Med Ctr	633	44	6.95	11.60	6.74 **	(4.90, 9.05)
Unity Hospital	267	30	11.24	10.26	12.32	(8.31,17.58)
Univ. Brooklyn @ LICH	216	34	15.74	10.89	16.24 *	(11.2,22.70)
Univ. Hosp-Brooklyn	325	47	14.46	12.67	12.83	(9.43,17.06)
Univ. Hosp-Stony Brook	1274	208	16.33	11.80	15.55 *	(13.5,17.81)
Univ. Hosp-Upstate	246	30	12.20	12.56	10.92	(7.37,15.59)
Vassar Bros. Med Ctr	647	74	11.44	11.01	11.68	(9.17,14.66)
Westchester Med Ctr	437	47	10.76	11.52	10.50	(7.71,13.96)
White Plains Hospital	256	32	12.50	11.31	12.43	(8.50,17.54)
Winthrop Univ. Hosp	928	96	10.34	11.14	10.44	(8.46,12.75)
Statewide Total	42936	4827	11.24			

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

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

Figure 3

30-Day Risk-Adjusted Readmission Rates for PCI in New York State, 2012 Discharges (All Cases)



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

2010-2012 HOSPITAL DATA FOR PCI

Table 3 provides the number of PCIs, the in-hospital/30-day OMR and RAMR for 2010-2012 for each of three types of PCI patients in the 60 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 2010-2012 are presented in Appendices 4-6, respectively.

As indicated in Table 3, the three-year observed in-hospital/30-day mortality rates for all PCI patients ranged from 0.42 percent to 4.28 percent, and the RAMRs ranged from 0.45 percent to 2.00 percent. Three hospitals (Albany Medical Center, Faxton-St. Lukes Healthcare in Utica, and Jamaica Hospital Medical Center) had RAMRs that were significantly higher than the statewide rate. Four hospitals (Maimonides Medical Center in Brooklyn, Mount Sinai Hospital in Manhattan, New York Presbyterian at Columbia 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 3 also presents the 3-year in-hospital/30-day RAMRs for non-emergency cases based on the model in Appendix 5. Non-emergency cases comprise 84.73 percent of cases for the period 2010-2012. The statewide in-hospital/30-day mortality rate for the 128,454 non-emergency cases during the 3-year period was 0.59 percent. Observed mortality rates for this group of patients ranged from 0.00 percent to 1.83

percent and the RAMRs ranged from 0.00 to 1.61 percent. Two hospitals (Albany Medical Center and University Hospital – Upstate in Syracuse) had RAMRs that were significantly higher than the statewide rate. Three hospitals (Maimonides Medical Center in Brooklyn, Mount Sinai Hospital in Manhattan and New York Presbyterian at Columbia in Manhattan) had RAMRs that were significantly lower than the statewide average for non-emergency cases.

The last three columns in Table 3 present data on emergency cases based on the model in Appendix 6. Emergency cases represented 15.27 percent of cases for the period 2010-2012. The statewide in-hospital/30-day mortality rate for the 23,151 emergency PCI cases during the 3-year period was 2.77 percent. Observed mortality rates for this group ranged from 0.00 percent to 7.10 percent and the RAMRs ranged from 0.00 percent to 5.79 percent. Two hospitals (Albany Medical Center and Jamaica Hospital Medical Center) had a RAMRs that were 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 3) for all 151,605 cases included in Table 3 was 0.55 percent. The in-hospital mortality rate was 0.27 percent for the 128,454 non-emergency cases and 2.12 percent for the 23,151 emergency cases. As stated above, all cases with shock and hypoxic brain injury mortalities discharged in 2010-2012 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.

Table 3**In-Hospital/30-Day Observed and Risk-Adjusted Mortality Rates for PCI in New York State, 2010-2012 Discharges**

Hospital	All Cases			Non-Emergency Cases			Emergency Cases		
	Cases	OMR	RAMR	Cases	OMR	RAMR	Cases	OMR	RAMR
Albany Med. Ctr	2990	1.71	2.00 *	2462	1.10	1.42 *	528	4.55	5.42 *
Arnot Ogden Med Ctr	1467	0.61	0.61	1127	0.18	0.19	340	2.06	2.58
Bellevue Hospital Ctr	1383	1.23	0.93	1068	0.66	0.51	315	3.17	3.25
Bronx – Lebanon – Concourse	187	4.28	1.83	15	0.00	0.00	172	4.65	5.79
Brookdale Univ Hosp Med Ctr	767	1.83	1.26	601	1.66	0.85	166	2.41	2.63
Buffalo General Hosp	4321	1.11	1.24	3719	0.81	0.87	602	2.99	3.49
Cayuga Med Ctr Ithaca	295	1.02	0.71	181	0.00	0.00	114	2.63	3.25
Champ.Valley Phys Hosp	1958	1.12	1.00	1580	0.63	0.67	378	3.17	2.86
Crouse Hospital	1057	1.04	0.99	824	0.49	0.64	233	3.00	2.73
Ellis Hospital	1539	0.78	0.71	1031	0.39	0.43	508	1.57	2.28
Elmhurst Hospital Ctr	1313	1.14	0.98	919	0.33	0.44	394	3.05	3.17
Erie County Med Ctr	454	0.88	0.45	220	0.00	0.00	234	1.71	1.64
Faxton – St. Lukes	773	1.68	1.93 *	641	0.94	1.36	132	5.30	5.21
Glens Falls Hospital	667	0.60	0.80	480	0.00	0.00	187	2.14	3.24
Good Sam – Suffern	1757	1.37	1.07	1299	0.92	0.79	458	2.62	2.62
Good Sam – West Islip	1988	0.80	1.44	1740	0.46	0.81	248	3.23	4.89
Huntington Hospital	619	0.65	0.66	416	0.72	0.88	203	0.49	0.81
Jamaica Hosp Med Ctr	659	3.49	1.66 *	185	1.62	1.61	474	4.22	4.64 *
Lenox Hill Hospital	6114	0.51	0.76	5830	0.36	0.43	284	3.52	2.88
Long Island Jewish MC	5510	0.69	0.85	4910	0.61	0.68	600	1.33	1.64
Lutheran Medical Ctr	881	1.14	0.82	698	0.43	0.42	183	3.83	2.69
M I Bassett Hospital	1053	1.14	1.15	763	0.39	0.46	290	3.10	4.10
Maimonides Medical Ctr	3266	0.92	0.58 **	2659	0.53	0.34 **	607	2.64	1.85
Mercy Hospital	2057	1.12	1.11	1514	0.86	1.01	543	1.84	2.49
Millard Fillmore Hosp	1575	0.57	0.63	1314	0.30	0.34	261	1.92	2.21
Montefiore – Moses	2081	0.72	0.82	1711	0.29	0.32	370	2.70	3.75
Montefiore – Weiler	1742	1.61	1.28	1353	0.89	0.86	389	4.11	3.79
Mount Sinai Beth Israel	4636	0.75	0.90	4267	0.47	0.56	369	4.07	3.21
Mount Sinai Hospital	14168	0.42	0.59 **	13841	0.37	0.38 **	327	2.75	1.84
Mount Sinai St. Lukes	1550	1.61	1.26	1292	0.85	0.83	258	5.43	3.56
NY Hospital – Queens	2066	0.82	0.85	1635	0.67	0.74	431	1.39	1.72
NY Methodist Hospital	4128	0.94	1.29	3945	0.66	0.74	183	7.10	4.87
NYP – Columbia Presby.	8666	0.67	0.69 **	8191	0.45	0.43 **	475	4.42	2.31
NYP – Weill Cornell	4172	1.29	0.94	3748	1.01	0.67	424	3.77	2.19
NYU Hospitals Center	3461	0.58	0.88	3292	0.36	0.46	169	4.73	4.14
North Shore Univ Hosp	4706	0.59	0.56 **	3808	0.47	0.46	898	1.11	1.18 **
Orange Regional Med Ctr	1615	0.87	0.94	1306	0.54	0.57	309	2.27	2.85
Rochester General Hosp	5173	1.06	1.08	4269	0.75	0.65	904	2.54	3.57
Samaritan Hospital	201	0.50	0.84	153	0.65	1.33	48	0.00	0.00
South Nassau Com. Hosp	1551	0.84	0.77	1210	0.50	0.46	341	2.05	2.15
Southside Hospital	1626	0.80	1.06	1391	0.65	0.75	235	1.70	2.67
St. Barnabas Hospital	165	1.21	1.21	121	0.83	0.57	44	2.27	3.99
St. Catherine of Siena	732	0.55	0.57	558	0.36	0.44	174	1.15	1.39
St. Elizabeth Med Ctr	2674	1.05	0.96	2285	0.66	0.63	389	3.34	2.77
St. Francis Hospital	7907	0.82	0.87	7381	0.68	0.58	526	2.85	2.56
St. Josephs Hospital	6514	0.86	0.89	5297	0.66	0.68	1217	1.73	2.01
St. Lukes Cornwall Hosp	977	1.13	0.91	789	0.76	0.67	188	2.66	2.16
St. Peters Hosp.	2205	1.04	0.99	1629	0.80	0.88	576	1.74	2.31
Staten Island Univ Hosp	3103	1.03	1.00	2638	0.53	0.55	465	3.87	3.32
Strong Memorial Hosp	2809	1.10	0.93	1962	0.56	0.63	847	2.36	2.57
UHS – Wilson Med Ctr	2168	1.01	0.72	1614	0.62	0.63	554	2.17	1.66
Unity Hospital	886	1.58	1.21	670	0.90	1.14	216	3.70	2.63
Univ. Brooklyn @ LICH	615	0.98	0.79	484	0.41	0.44	131	3.05	2.63
Univ. Hosp – Brooklyn	1379	1.09	1.10	1127	0.35	0.39	252	4.37	4.02
Univ. Hosp – Stony Brook	4631	1.51	1.17	3457	0.87	0.70	1174	3.41	3.74
Univ. Hosp – Upstate	781	2.69	1.42	492	1.83	1.35 *	289	4.15	3.70
Vassar Bros. Med Ctr	2003	1.10	1.03	1481	0.68	0.73	522	2.30	2.96
Westchester Med Ctr	2222	1.04	0.85	1747	0.80	0.68	475	1.89	2.00
White Plains Hospital	631	1.90	1.29	491	1.43	1.29	140	3.57	2.36
Winthrop Univ. Hosp	3011	0.73	0.68	2623	0.46	0.43	388	2.58	2.21
Statewide Total	151605	0.93		128454	0.59		23151	2.77	

*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.

2010-2012 HOSPITAL AND CARDIOLOGIST DATA FOR PCI

Table 4 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 2010-2012 for cardiologists in each of the 60 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 2010-2012, and/or (b) performed at least one PCI in each of the years 2010-2012. 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 2010-2012.

Also, cardiologists who met criterion (a) or (b) above and have performed PCI in two or more NYS hospitals are listed separately in Table 5.

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 4 and 5.

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 4

Cardiologist In-Hospital/30-Day Observed, Expected and Risk-Adjusted Mortality Rates for PCI in New York State, 2010–2012 Discharges

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
Statewide Total	151605	1405	0.93				128454	0.59
Albany Medical Center Hospital								
##Brady S	389	4	1.03	0.73	1.30	(0.35, 3.33)	307	0.60
##Delago A	1110	15	1.35	0.72	1.74 *	(0.98, 2.88)	992	1.54 *
El-Hajjar M	254	5	1.97	1.07	1.70	(0.55, 3.96)	181	1.77
##Esper D	189	5	2.65	0.81	3.02 *	(0.97, 7.05)	143	2.33
Houghton J	232	8	3.45	1.35	2.37 *	(1.02, 4.67)	155	1.73
##Khawaja H	86	4	4.65	0.62	6.94 *	(1.87,17.78)	64	0.00
Nappi A	266	5	1.88	0.88	1.97	(0.64, 4.60)	206	1.24
##Papaleo R	437	5	1.14	0.51	2.09	(0.67, 4.88)	406	0.94
##Papandrea L	14	0	0.00	1.29	0.00	(0.00,18.86)	6	0.00
All Others	13	0	0.00	0.97	0.00	(0.00,27.01)	2	0.00
TOTAL	2990	51	1.71	0.79	2.00 *	(1.49, 2.63)	2462	1.42 *
Arnot-Ogden Medical Center								
Amin N	452	2	0.44	0.92	0.45	(0.05, 1.62)	351	0.00
Grella R	503	3	0.60	1.01	0.55	(0.11, 1.60)	389	0.00
Yarkoni A	512	4	0.78	0.88	0.82	(0.22, 2.10)	387	0.62
TOTAL	1467	9	0.61	0.94	0.61	(0.28, 1.15)	1127	0.19
Bellevue Hospital Center								
##Attubato M	95	5	5.26	1.44	3.39 *	(1.09, 7.91)	78	1.80
##Babaev A	15	0	0.00	3.68	0.00	(0.00, 6.16)	1	0.00
#Bangalore S	239	3	1.26	1.54	0.75	(0.15, 2.20)	180	0.31
##Coppola J	61	1	1.64	0.98	1.54	(0.02, 8.59)	44	0.00
##Feit F	142	0	0.00	0.85	0.00	(0.00, 2.83)	111	0.00
#Hegde S	161	0	0.00	0.69	0.00	(0.00, 3.06)	159	0.00
##Iqbal S	348	3	0.86	1.07	0.75	(0.15, 2.18)	260	0.00
#Kurian D	29	1	3.45	0.54	5.93	(0.08,33.00)	27	4.02
##Serrano-Gomez C	8	0	0.00	2.20	0.00	(0.00,19.31)	.	.
##Slater J	25	0	0.00	1.63	0.00	(0.00, 8.34)	11	0.00
#Staniloae C	31	1	3.23	0.94	3.19	(0.04,17.76)	19	6.19
##Yatskar L	113	0	0.00	1.13	0.00	(0.00, 2.67)	96	0.00
All Others	116	3	2.59	2.07	1.16	(0.23, 3.39)	82	1.25
TOTAL	1383	17	1.23	1.23	0.93	(0.54, 1.49)	1068	0.51
Bronx-Lebanon Hospital Ctr Concourse Div								
##Amsalem Y	12	0	0.00	1.92	0.00	(0.00,14.72)	1	0.00
##Celaj S	30	2	6.67	2.22	2.79	(0.31,10.07)	.	.
##Johnson M	28	3	10.71	2.41	4.12	(0.83,12.03)	2	0.00
##Shaqra H	76	2	2.63	2.06	1.18	(0.13, 4.27)	5	0.00
All Others	41	1	2.44	2.23	1.01	(0.01, 5.63)	7	0.00
TOTAL	187	8	4.28	2.17	1.83	(0.79, 3.60)	15	0.00
Brookdale Univ. Hospital Medical Ctr								
#Castillo R	369	8	2.17	1.45	1.38	(0.60, 2.73)	276	1.11
#Chadow H	395	6	1.52	1.26	1.12	(0.41, 2.44)	322	0.55
##John S	1	0	0.00	0.30	0.00	(0.00,100.0)	1	0.00
All Others	2	0	0.00	0.17	0.00	(0.00,100.0)	2	0.00
TOTAL	767	14	1.83	1.35	1.26	(0.69, 2.11)	601	0.85
Buffalo General Hospital								
##Chaudhry E	35	0	0.00	0.88	0.00	(0.00,11.03)	24	0.00
Conley J	1086	11	1.01	0.86	1.09	(0.54, 1.95)	998	0.76
#Corbelli J	93	1	1.08	1.06	0.94	(0.01, 5.23)	67	0.00
#Dashkoff N	2	0	0.00	1.09	0.00	(0.00,100.0)	.	.
#Farhi E	691	5	0.72	0.79	0.85	(0.27, 1.99)	579	0.40

Table 4, continued

	Cases	Deaths	OMR	All Cases		95% CI for RAMR	Non-emergency	
				EMR	RAMR		Cases	RAMR
##Gelormini J	16	1	6.25	0.45	12.97	(0.17,72.18)	15	7.85
##Haq N	9	0	0.00	1.62	0.00	(0.00,23.29)	.	.
##Iyer V	349	5	1.43	1.03	1.29	(0.42, 3.01)	271	1.53
#Masud A	220	7	3.18	0.99	2.98 *	(1.19, 6.14)	198	1.68
##Morris W	1027	11	1.07	0.83	1.20	(0.60, 2.15)	916	0.90
##Phadke K	227	3	1.32	1.04	1.17	(0.24, 3.43)	154	0.77
##Sullivan P	59	1	1.69	0.70	2.24	(0.03,12.46)	43	0.00
#Visco J	421	2	0.48	0.31	1.44	(0.16, 5.21)	407	1.13
All Others	86	1	1.16	1.56	0.69	(0.01, 3.84)	47	0.00
TOTAL	4321	48	1.11	0.83	1.24	(0.91, 1.64)	3719	0.87
Cayuga Medical Center at Ithaca								
Goodwin S	130	3	2.31	1.51	1.42	(0.28, 4.14)	77	0.00
#Stefek P	165	0	0.00	1.18	0.00	(0.00, 1.74)	104	0.00
TOTAL	295	3	1.02	1.33	0.71	(0.14, 2.08)	181	0.00
Champlain Valley Physicians Hospital								
Bradley W	695	7	1.01	0.95	0.98	(0.39, 2.03)	566	0.38
Garrand T	549	6	1.09	1.40	0.72	(0.26, 1.57)	439	0.48
Gauthier E	714	9	1.26	0.84	1.39	(0.63, 2.63)	575	1.09
TOTAL	1958	22	1.12	1.04	1.00	(0.63, 1.52)	1580	0.67
Crouse Hospital								
#Battaglia J	616	6	0.97	0.81	1.12	(0.41, 2.43)	482	1.04
#George A	441	5	1.13	1.21	0.87	(0.28, 2.03)	342	0.00
TOTAL	1057	11	1.04	0.97	0.99	(0.49, 1.77)	824	0.64
Ellis Hospital								
Cospito P	378	3	0.79	1.18	0.62	(0.13, 1.82)	243	0.40
Dempsey S	62	0	0.00	0.53	0.00	(0.00,10.32)	61	0.00
Jordan M	325	2	0.62	0.98	0.58	(0.07, 2.11)	205	0.62
#Kufs W	65	0	0.00	0.42	0.00	(0.00,12.43)	62	0.00
Parkes R	462	6	1.30	0.95	1.26	(0.46, 2.75)	325	0.33
Weitz S	247	1	0.40	1.19	0.32	(0.00, 1.75)	135	0.79
TOTAL	1539	12	0.78	1.01	0.71	(0.37, 1.25)	1031	0.43
Elmhurst Hospital Center								
#Kamran M	946	5	0.53	0.73	0.67	(0.21, 1.56)	713	0.41
#Kim M	41	0	0.00	1.75	0.00	(0.00, 4.73)	2	0.00
##Pyo R	40	3	7.50	3.34	2.08	(0.42, 6.08)	4	0.00
##Serrano-Gomez C	7	0	0.00	0.31	0.00	(0.00,100.0)	7	0.00
##Yatskar L	254	5	1.97	1.74	1.05	(0.34, 2.45)	184	0.60
All Others	25	2	8.00	3.13	2.37	(0.27, 8.55)	9	0.00
TOTAL	1313	15	1.14	1.08	0.98	(0.55, 1.61)	919	0.44
Erie County Medical Center								
##Chaudhry E	1	0	0.00	0.06	0.00	(0.00,100.0)	1	0.00
#Dashkoff N	368	2	0.54	1.67	0.30	(0.03, 1.09)	204	0.00
#Emerson R	1	0	0.00	0.26	0.00	(0.00,100.0)	.	.
##Iyer V	48	0	0.00	2.60	0.00	(0.00, 2.72)	11	0.00
##Phadke K	8	0	0.00	4.29	0.00	(0.00, 9.91)	4	0.00
Young H	28	2	7.14	1.82	3.63	(0.41,13.10)	.	.
TOTAL	454	4	0.88	1.82	0.45	(0.12, 1.15)	220	0.00
Faxton-St. Lukes Hlthcare- St.Lukes Div								
#Kelberman M	16	1	6.25	1.88	3.08	(0.04,17.16)	11	0.00
#Kozman H	4	0	0.00	1.04	0.00	(0.00,81.33)	.	.
#Maclsaac H	55	3	5.45	2.27	2.23	(0.45, 6.50)	36	2.29
#Mathew T C	390	3	0.77	0.63	1.13	(0.23, 3.31)	336	0.53
#Nassif R	202	3	1.49	0.51	2.69	(0.54, 7.85)	178	3.63 *
#Patel A	17	1	5.88	1.27	4.30	(0.06,23.91)	7	0.00
#Sassower M	39	1	2.56	1.40	1.70	(0.02, 9.43)	28	0.00
#Varma P	21	1	4.76	0.99	4.48	(0.06,24.91)	18	3.46
All Others	29	0	0.00	0.73	0.00	(0.00,16.12)	27	0.00
TOTAL	773	13	1.68	0.81	1.93 *	(1.02, 3.29)	641	1.36

Table 4, *continued*

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
Glens Falls Hospital								
Bashir I	350	1	0.29	0.63	0.42	(0.01, 2.33)	265	0.00
##Brady S	1	0	0.00	0.51	0.00	(0.00,100.0)	.	.
##Delago A	1	0	0.00	0.63	0.00	(0.00,100.0)	.	.
Hogan R	290	2	0.69	0.64	1.00	(0.11, 3.62)	214	0.00
##Papaleo R	25	1	4.00	2.35	1.57	(0.02, 8.76)	1	0.00
TOTAL	667	4	0.60	0.70	0.80	(0.21, 2.04)	480	0.00
Good Samaritan Hosp Med Ctr- West Islip								
##Caselnova R	499	3	0.60	0.51	1.10	(0.22, 3.20)	460	1.01
##Deutsch E	114	3	2.63	0.69	3.56	(0.71,10.39)	89	0.00
##Hormozi S	439	3	0.68	0.56	1.13	(0.23, 3.30)	392	0.80
##Lee P J	466	6	1.29	0.45	2.64 *	(0.96, 5.75)	416	1.03
##Patel R B	118	0	0.00	0.68	0.00	(0.00, 4.24)	83	0.00
##Reich D	352	1	0.28	0.46	0.58	(0.01, 3.20)	300	0.74
TOTAL	1988	16	0.80	0.52	1.44	(0.82, 2.34)	1740	0.81
Good Samaritan Hospital - Suffern								
#Agarwal A	22	1	4.55	1.09	3.88	(0.05,21.57)	13	0.00
#Brogno D	338	4	1.18	0.90	1.22	(0.33, 3.13)	279	0.74
Hirsch C	285	3	1.05	0.77	1.26	(0.25, 3.69)	242	0.94
Innerfield M	185	1	0.54	1.35	0.37	(0.00, 2.07)	105	0.00
##Kandov R	17	1	5.88	3.18	1.72	(0.02, 9.55)	4	0.00
Kovar L	273	2	0.73	1.11	0.61	(0.07, 2.20)	221	0.61
##Pyo R	122	3	2.46	1.04	2.20	(0.44, 6.42)	110	1.48
##Royzman R	9	0	0.00	5.67	0.00	(0.00, 6.66)	2	0.00
#Shapira S	10	0	0.00	0.58	0.00	(0.00,58.42)	10	0.00
Shih A C	208	5	2.40	1.47	1.51	(0.49, 3.53)	127	1.70
All Others	288	4	1.39	1.49	0.87	(0.23, 2.22)	186	0.00
TOTAL	1757	24	1.37	1.18	1.07	(0.69, 1.60)	1299	0.79
Huntington Hospital								
##Bagga R	206	1	0.49	0.97	0.46	(0.01, 2.57)	130	0.75
##Caselnova R	1	0	0.00	0.63	0.00	(0.00,100.0)	1	0.00
##Ong L Y	26	0	0.00	0.54	0.00	(0.00,24.13)	23	0.00
##Patcha R	121	0	0.00	1.05	0.00	(0.00, 2.68)	75	0.00
##Polena S	168	3	1.79	0.67	2.46	(0.49, 7.18)	130	2.39
##Schwartz R	1	0	0.00	0.89	0.00	(0.00,100.0)	.	.
##Strizik B	96	0	0.00	1.06	0.00	(0.00, 3.35)	57	0.00
TOTAL	619	4	0.65	0.90	0.66	(0.18, 1.70)	416	0.88
Jamaica Hospital Medical Center								
##Gade C	1	0	0.00	4.78	0.00	(0.00,71.19)	.	.
#Jain S	189	6	3.17	1.88	1.57	(0.57, 3.41)	68	1.87
##Kaki A	13	2	15.38	1.49	9.54 *	(1.07,34.46)	1	0.00
#Kukar A	7	0	0.00	1.42	0.00	(0.00,34.20)	.	.
#Lasic Z	188	6	3.19	2.29	1.29	(0.47, 2.81)	51	1.82
#Puma A	12	2	16.67	1.64	9.41 *	(1.06,33.98)	.	.
#Raza J	184	6	3.26	1.86	1.63	(0.59, 3.54)	56	1.51
##Soffer D	11	0	0.00	1.05	0.00	(0.00,29.51)	.	.
##Yang Y	13	0	0.00	1.76	0.00	(0.00,14.86)	.	.
All Others	41	1	2.44	1.62	1.39	(0.02, 7.74)	9	0.00
TOTAL	659	23	3.49	1.95	1.66 *	(1.05, 2.50)	185	1.61
Lenox Hill Hospital								
#Aboufares A	251	2	0.80	0.87	0.84	(0.09, 3.05)	239	0.00
##Amsalem Y	48	2	4.17	1.38	2.79	(0.31,10.07)	39	2.42
##Attubato M	12	0	0.00	1.61	0.00	(0.00,17.63)	12	0.00
##Babaev A	3	0	0.00	1.88	0.00	(0.00,60.16)	3	0.00
Cohen H	330	1	0.30	0.64	0.44	(0.01, 2.42)	309	0.47
##Coppola J	2	0	0.00	0.25	0.00	(0.00,100.0)	2	0.00
##Dominguez-Echeva	50	0	0.00	0.36	0.00	(0.00,18.72)	49	0.00
##Feit F	2	0	0.00	0.19	0.00	(0.00,100.0)	2	0.00
##Fernaine G	24	0	0.00	0.73	0.00	(0.00,19.30)	24	0.00
##Gade C	78	0	0.00	0.42	0.00	(0.00,10.35)	75	0.00

Table 4, *continued*

	Cases	Deaths	OMR	All Cases		95% CI for RAMR	Non-emergency	
				EMR	RAMR		Cases	RAMR
Lenox Hill Hospital, <i>continued</i>								
Garratt K	455	3	0.66	0.71	0.86	(0.17, 2.52)	413	0.52
#Geizhals M	3	0	0.00	0.28	0.00	(0.00,100.0)	3	0.00
##Gustafson G	11	0	0.00	0.24	0.00	(0.00,100.0)	11	0.00
Hernandez-Vila E	210	1	0.48	0.66	0.67	(0.01, 3.73)	198	0.00
##Iqbal S	1	0	0.00	0.76	0.00	(0.00,100.0)	1	0.00
Iyer S	276	3	1.09	0.77	1.31	(0.26, 3.84)	249	1.13
#Jain S	320	0	0.00	0.67	0.00	(0.00, 1.58)	312	0.00
##Kaki A	119	0	0.00	0.67	0.00	(0.00, 4.29)	101	0.00
##Kesanakurthy S	306	1	0.33	0.48	0.63	(0.01, 3.50)	304	0.42
##Kim B	99	1	1.01	0.41	2.27	(0.03,12.61)	99	1.54
#Kukar A	278	2	0.72	0.67	1.00	(0.11, 3.60)	265	0.36
#Lasic Z	259	0	0.00	0.75	0.00	(0.00, 1.75)	252	0.00
#Palkhiwala S	17	0	0.00	0.17	0.00	(0.00,100.0)	17	0.00
##Papadakos S	247	1	0.40	0.43	0.88	(0.01, 4.87)	243	0.61
#Parikh M	288	1	0.35	0.77	0.42	(0.01, 2.34)	287	0.31
#Puma A	190	1	0.53	0.38	1.29	(0.02, 7.19)	186	0.92
#Raza J	349	3	0.86	0.51	1.55	(0.31, 4.52)	345	0.62
Reimers C	843	2	0.24	0.50	0.44	(0.05, 1.58)	804	0.37
##Rentrop K	10	0	0.00	0.26	0.00	(0.00,100.0)	10	0.00
##Roubin G	89	0	0.00	0.47	0.00	(0.00, 8.10)	86	0.00
##Seldon M	3	0	0.00	0.29	0.00	(0.00,100.0)	3	0.00
#Singh V	86	1	1.16	0.41	2.63	(0.03,14.63)	85	1.56
##Slater J	7	0	0.00	0.30	0.00	(0.00,100.0)	7	0.00
##Soffer D	157	0	0.00	0.50	0.00	(0.00, 4.36)	152	0.00
#Stathopoulos I	109	1	0.92	0.78	1.09	(0.01, 6.04)	107	0.80
##Wilentz J	171	0	0.00	0.76	0.00	(0.00, 2.63)	155	0.00
##Yang Y	200	1	0.50	0.47	0.99	(0.01, 5.53)	196	0.74
Zaric M	106	2	1.89	1.08	1.63	(0.18, 5.87)	87	0.00
All Others	105	2	1.90	0.62	2.83	(0.32,10.22)	98	2.79
TOTAL	6114	31	0.51	0.62	0.76	(0.52, 1.08)	5830	0.43
Long Island Jewish Medical Center								
##Arkonac B	533	12	2.25	1.33	1.57	(0.81, 2.75)	447	1.23
##Bagga R	143	0	0.00	0.52	0.00	(0.00, 4.55)	140	0.00
#Boutis L	29	1	3.45	4.09	0.78	(0.01, 4.35)	4	0.00
##Deutsch E	3	0	0.00	0.60	0.00	(0.00,100.0)	3	0.00
##Dhama B	397	3	0.76	0.73	0.96	(0.19, 2.82)	388	0.67
##Friedman G H	123	1	0.81	0.62	1.22	(0.02, 6.80)	116	1.12
#Green S	16	0	0.00	1.65	0.00	(0.00,12.89)	3	0.00
##Grunwald A	167	0	0.00	0.78	0.00	(0.00, 2.61)	159	0.00
#Gupta R	48	0	0.00	0.89	0.00	(0.00, 7.99)	46	0.00
##Hameedi A	777	0	0.00	0.23	0.00	(0.00, 1.86)	776	0.00
#Jauhar R	1416	7	0.49	0.68	0.67	(0.27, 1.38)	1241	0.62
#Kaplan B	1321	10	0.76	0.76	0.93	(0.44, 1.70)	1197	0.72
#Katz S	36	0	0.00	1.58	0.00	(0.00, 5.96)	7	0.00
##Kim B	36	0	0.00	0.27	0.00	(0.00,34.88)	36	0.00
##Koss J	204	2	0.98	0.76	1.20	(0.14, 4.34)	190	1.05
#Lee A	25	0	0.00	2.29	0.00	(0.00, 5.93)	2	0.00
#Marchant D	24	0	0.00	2.56	0.00	(0.00, 5.53)	3	0.00
#Musso J	7	0	0.00	0.26	0.00	(0.00,100.0)	7	0.00
##Ong L Y	10	0	0.00	1.60	0.00	(0.00,21.22)	4	0.00
##Polena S	23	0	0.00	1.04	0.00	(0.00,14.15)	23	0.00
#Rutkin B	23	0	0.00	1.26	0.00	(0.00,11.70)	1	0.00
##Strizik B	7	0	0.00	0.78	0.00	(0.00,61.87)	7	0.00
##Yadav S	28	0	0.00	0.28	0.00	(0.00,43.46)	27	0.00
All Others	114	2	1.75	1.02	1.59	(0.18, 5.75)	83	2.29
TOTAL	5510	38	0.69	0.75	0.85	(0.60, 1.16)	4910	0.68

Table 4, *continued*

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
Lutheran Medical Center								
##Dominguez-Echeva	86	0	0.00	0.88	0.00	(0.00, 4.48)	83	0.00
##Fernaine G	572	5	0.87	0.89	0.91	(0.29, 2.12)	502	0.62
##Hoyek W	78	2	2.56	1.40	1.70	(0.19, 6.12)	43	0.00
##Kandov R	48	2	4.17	3.51	1.10	(0.12, 3.98)	24	0.00
##Lee P C	53	0	0.00	1.79	0.00	(0.00, 3.58)	28	0.00
##Pyo R	3	0	0.00	3.45	0.00	(0.00,32.83)	.	.
##Royzman R	41	1	2.44	3.96	0.57	(0.01, 3.17)	18	0.00
TOTAL	881	10	1.14	1.28	0.82	(0.39, 1.51)	698	0.42
M I Bassett Hospital								
Laifer L	196	3	1.53	0.86	1.65	(0.33, 4.82)	120	0.99
McNulty P	276	4	1.45	1.01	1.32	(0.36, 3.39)	214	1.30
Menzies D	448	3	0.67	0.90	0.69	(0.14, 2.01)	332	0.00
All Others	133	2	1.50	0.89	1.57	(0.18, 5.68)	97	0.00
TOTAL	1053	12	1.14	0.92	1.15	(0.59, 2.00)	763	0.46
Maimonides Medical Center								
Ayzenberg S	645	9	1.40	2.04	0.63	(0.29, 1.20)	459	0.45
Borgen E	614	7	1.14	1.92	0.55	(0.22, 1.13)	444	0.28
Frankel R	501	3	0.60	0.95	0.59	(0.12, 1.71)	462	0.51
Friedman M	266	2	0.75	1.68	0.41	(0.05, 1.50)	182	0.00
##Kantowitz N	11	0	0.00	0.43	0.00	(0.00,71.38)	11	0.00
Malik B	827	8	0.97	1.21	0.74	(0.32, 1.45)	713	0.37
Shani J	374	1	0.27	1.00	0.25	(0.00, 1.38)	360	0.18
All Others	28	0	0.00	0.25	0.00	(0.00,48.05)	28	0.00
TOTAL	3266	30	0.92	1.47	0.58 **	(0.39, 0.83)	2659	0.34 **
Mercy Hospital of Buffalo								
#Calandra S	433	1	0.23	0.69	0.31	(0.00, 1.72)	335	0.40
##Chaudhry E	39	3	7.69	1.47	4.84 *	(0.97,14.13)	19	6.63
#Emerson R	218	3	1.38	1.12	1.14	(0.23, 3.32)	125	2.00
##Gelormini J	482	7	1.45	1.03	1.31	(0.52, 2.69)	369	1.40
Mercy Hospital of Buffalo, <i>continued</i>								
##Haq N	339	2	0.59	0.91	0.60	(0.07, 2.16)	261	0.37
Meltser H	440	3	0.68	0.96	0.66	(0.13, 1.92)	314	0.00
##Morris W	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
##Phadke K	1	0	0.00	0.10	0.00	(0.00,100.0)	1	0.00
##Sullivan P	20	0	0.00	0.56	0.00	(0.00,30.31)	12	0.00
All Others	84	4	4.76	1.00	4.41 *	(1.19,11.30)	77	3.10 *
TOTAL	2057	23	1.12	0.94	1.11	(0.70, 1.66)	1514	1.01
Millard Fillmore Hospital								
#Calandra S	12	0	0.00	0.20	0.00	(0.00,100.0)	12	0.00
##Chaudhry E	1	0	0.00	0.67	0.00	(0.00,100.0)	.	.
#Corbelli J	630	5	0.79	0.87	0.85	(0.27, 1.98)	556	0.50
#Farhi E	3	0	0.00	1.71	0.00	(0.00,66.22)	.	.
##Gelormini J	56	0	0.00	0.30	0.00	(0.00,20.06)	55	0.00
##Haq N	27	0	0.00	1.20	0.00	(0.00,10.48)	10	0.00
##Iyer V	10	0	0.00	0.98	0.00	(0.00,34.52)	2	0.00
#Masud A	205	1	0.49	0.70	0.64	(0.01, 3.57)	183	0.00
##Morris W	9	0	0.00	1.70	0.00	(0.00,22.23)	.	.
##Phadke K	607	2	0.33	0.86	0.35	(0.04, 1.28)	490	0.00
##Sullivan P	2	0	0.00	0.39	0.00	(0.00,100.0)	1	0.00
#Visco J	1	0	0.00	0.91	0.00	(0.00,100.0)	.	.
All Others	12	1	8.33	1.19	6.48	(0.08,36.05)	5	13.75
TOTAL	1575	9	0.57	0.83	0.63	(0.29, 1.21)	1314	0.34
Montefiore Medical Center - Moses								
##Amsalem Y	81	1	1.23	1.53	0.75	(0.01, 4.16)	67	0.00
##Celaj S	313	4	1.28	0.79	1.51	(0.40, 3.85)	257	0.44
#Goldman A Y	38	0	0.00	0.53	0.00	(0.00,16.86)	37	0.00
##Greenberg M	596	4	0.67	0.79	0.79	(0.21, 2.01)	485	0.25
##Johnson M	171	0	0.00	0.65	0.00	(0.00, 3.07)	147	0.00

Table 4, *continued*

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
Montefiore Medical Center - Moses, <i>continued</i>								
##Menegus M	563	6	1.07	0.94	1.05	(0.38, 2.29)	419	0.63
##Sehhat K	33	0	0.00	0.60	0.00	(0.00,17.08)	32	0.00
##Shaqra H	201	0	0.00	0.67	0.00	(0.00, 2.52)	183	0.00
##Shih A T	3	0	0.00	0.60	0.00	(0.00,100.0)	3	0.00
##Srinivas V	1	0	0.00	0.51	0.00	(0.00,100.0)	1	0.00
All Others	81	0	0.00	0.50	0.00	(0.00, 8.34)	80	0.00
TOTAL	2081	15	0.72	0.82	0.82	(0.46, 1.35)	1711	0.32
Montefiore Medical Center - Weiler								
##Celaj S	4	0	0.00	1.32	0.00	(0.00,64.35)	1	0.00
##Gotsis W	199	3	1.51	0.97	1.44	(0.29, 4.19)	160	0.62
##Greenberg M	29	0	0.00	2.09	0.00	(0.00, 5.62)	27	0.00
##Menegus M	6	1	16.67	0.85	18.24	(0.24,100.0)	5	0.00
Monrad E	518	6	1.16	1.09	0.98	(0.36, 2.14)	410	0.65
##Shaqra H	5	0	0.00	0.99	0.00	(0.00,68.85)	3	0.00
##Silverman G	188	6	3.19	0.77	3.85 *	(1.40, 8.37)	147	2.93
Sokol S	238	3	1.26	0.86	1.36	(0.27, 3.97)	179	0.78
##Srinivas V	433	8	1.85	1.38	1.24	(0.53, 2.45)	351	0.98
All Others	122	1	0.82	2.02	0.38	(0.00, 2.10)	70	0.00
TOTAL	1742	28	1.61	1.16	1.28	(0.85, 1.85)	1353	0.86
Mount Sinai Beth Israel								
##Aslam A K	300	0	0.00	0.17	0.00	(0.00, 6.71)	300	0.00
Fox J	1272	11	0.86	0.88	0.91	(0.45, 1.63)	1194	0.62
#Gowda R	746	7	0.94	0.98	0.89	(0.36, 1.84)	666	0.61
Kanei Y	251	2	0.80	1.31	0.56	(0.06, 2.03)	178	0.00
##Kantrowitz N	5	0	0.00	0.51	0.00	(0.00,100.0)	5	0.00
##Kim B	9	0	0.00	0.31	0.00	(0.00,100.0)	9	0.00
#Kwan T	764	1	0.13	0.40	0.30	(0.00, 1.68)	763	0.00
##Lee P C	26	0	0.00	0.28	0.00	(0.00,47.17)	26	0.00
#Liou M	164	1	0.61	0.55	1.03	(0.01, 5.73)	162	0.77
Nakra N	360	8	2.22	1.54	1.34	(0.58, 2.64)	273	1.01
Patel R H	112	0	0.00	0.33	0.00	(0.00, 9.28)	111	0.00
Punukollu G	194	0	0.00	0.34	0.00	(0.00, 5.18)	194	0.00
#Rosero H	389	4	1.03	0.67	1.41	(0.38, 3.62)	342	1.18
##Roubin G	1	0	0.00	0.13	0.00	(0.00,100.0)	1	0.00
##Sehhat K	2	0	0.00	0.09	0.00	(0.00,100.0)	2	0.00
##Seldon M	2	0	0.00	1.29	0.00	(0.00,100.0)	2	0.00
##Wilentz J	1	0	0.00	0.30	0.00	(0.00,100.0)	1	0.00
All Others	38	1	2.63	0.86	2.82	(0.04,15.69)	38	1.79
TOTAL	4636	35	0.75	0.77	0.90	(0.63, 1.26)	4267	0.56
Mount Sinai Hospital								
#Dangas G	279	0	0.00	1.19	0.00	(0.00, 1.02)	257	0.00
##Fernaine G	184	2	1.09	0.45	2.26	(0.25, 8.15)	184	1.58
##Hameedi A	73	0	0.00	0.21	0.00	(0.00,22.37)	73	0.00
#Hasan C	368	0	0.00	0.25	0.00	(0.00, 3.73)	367	0.00
#Jayasundera T	8	0	0.00	0.55	0.00	(0.00,77.54)	8	0.00
#Kamran M	37	0	0.00	0.57	0.00	(0.00,16.17)	37	0.00
##Kesanakurthy S	134	0	0.00	0.28	0.00	(0.00, 8.99)	133	0.00
#Kim M	1860	13	0.70	0.86	0.76	(0.40, 1.29)	1815	0.41
Kini A	2874	5	0.17	0.56	0.29 **	(0.09, 0.67)	2806	0.21 **
Krishnan P	303	2	0.66	0.86	0.71	(0.08, 2.56)	288	0.38
#Lee J	22	0	0.00	0.34	0.00	(0.00,46.04)	22	0.00
##Lee P C	56	0	0.00	0.67	0.00	(0.00, 9.03)	56	0.00
Limaye A	175	4	2.29	1.42	1.49	(0.40, 3.81)	145	1.42
Moreno P	1216	4	0.33	0.52	0.59	(0.16, 1.51)	1200	0.29
#Nguyen T	1	0	0.00	0.15	0.00	(0.00,100.0)	1	0.00
#Palkhiwala S	680	3	0.44	0.44	0.93	(0.19, 2.72)	678	0.56
##Pyo R	170	3	1.76	1.07	1.53	(0.31, 4.47)	158	1.38
##Serrano-Gomez C	48	0	0.00	0.32	0.00	(0.00,22.46)	48	0.00
Sharma S	4052	15	0.37	0.67	0.51 **	(0.29, 0.85)	4032	0.35 **
##Shih A T	18	0	0.00	0.39	0.00	(0.00,49.00)	17	0.00
#Simon C	11	0	0.00	0.35	0.00	(0.00,87.56)	11	0.00

Table 4, *continued*

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
Mount Sinai Hospital, <i>continued</i>								
##Soffer D	49	0	0.00	0.33	0.00	(0.00,21.07)	48	0.00
Suleman J	737	2	0.27	0.45	0.56	(0.06, 2.03)	735	0.36
Sweeny J	324	2	0.62	0.76	0.75	(0.08, 2.71)	287	0.72
Wiley J	111	3	2.70	2.04	1.23	(0.25, 3.59)	91	0.79
##Yadav S	28	0	0.00	0.20	0.00	(0.00,59.44)	28	0.00
All Others	350	2	0.57	1.13	0.47	(0.05, 1.69)	316	0.49
TOTAL	14168	60	0.42	0.66	0.59 **	(0.45, 0.76)	13841	0.38 **
Mount Sinai St. Lukes								
#Coven D	200	2	1.00	0.98	0.95	(0.11, 3.42)	151	1.40
#Goldman A Y	13	0	0.00	0.44	0.00	(0.00,58.90)	13	0.00
Hong M	337	4	1.19	0.84	1.31	(0.35, 3.35)	307	0.00
Husain S	37	0	0.00	0.34	0.00	(0.00,27.20)	35	0.00
Leber R	241	2	0.83	0.90	0.85	(0.10, 3.07)	198	0.61
Palazzo A	128	3	2.34	1.02	2.12	(0.43, 6.20)	97	0.00
##Roubin G	2	0	0.00	1.04	0.00	(0.00,100.0)	2	0.00
##Serrano-Gomez C	1	0	0.00	0.27	0.00	(0.00,100.0)	1	0.00
#Simon C	424	11	2.59	1.73	1.39	(0.69, 2.49)	367	1.26
##Slater J	10	0	0.00	0.27	0.00	(0.00,100.0)	10	0.00
Tamis-Holland J	157	3	1.91	1.59	1.12	(0.22, 3.26)	111	0.75
TOTAL	1550	25	1.61	1.18	1.26	(0.82, 1.87)	1292	0.83
NY Hospital Medical Ctr of Queens								
Chiu Sungkin	65	1	1.54	0.32	4.51	(0.06,25.09)	65	3.02
Chiu Sungwai	58	0	0.00	0.35	0.00	(0.00,16.80)	58	0.00
David M	110	0	0.00	0.29	0.00	(0.00,10.70)	110	0.00
##Dhama B	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
##Friedman G H	48	1	2.08	1.84	1.05	(0.01, 5.84)	34	0.00
##Geizhals M	120	2	1.67	1.18	1.31	(0.15, 4.74)	85	0.00
##Grunwald A	61	0	0.00	1.59	0.00	(0.00, 3.50)	40	0.00
#Gupta R	104	1	0.96	0.79	1.13	(0.01, 6.28)	99	0.78
##Gustafson G	371	3	0.81	0.78	0.96	(0.19, 2.81)	321	0.91
##Hameedi A	15	0	0.00	0.14	0.00	(0.00,100.0)	15	0.00
#Hasan C	1	0	0.00	0.08	0.00	(0.00,100.0)	1	0.00
##Kim B	7	0	0.00	0.12	0.00	(0.00,100.0)	7	0.00
##Koss J	32	0	0.00	1.16	0.00	(0.00, 9.16)	19	0.00
Lee H	21	0	0.00	0.27	0.00	(0.00,60.86)	21	0.00
Moustakakis E	430	2	0.47	1.16	0.37	(0.04, 1.34)	255	0.00
##Papadakos S	170	3	1.76	1.44	1.14	(0.23, 3.33)	137	1.08
Park C	447	4	0.89	0.66	1.26	(0.34, 3.22)	362	1.16
#Perry-Bottinger L	5	0	0.00	0.65	0.00	(0.00,100.0)	5	0.00
TOTAL	2066	17	0.82	0.90	0.85	(0.49, 1.36)	1635	0.74
NY Methodist Hospital								
##Aslam A K	300	1	0.33	0.21	1.49	(0.02, 8.27)	296	0.97
#Badero O	146	1	0.68	0.25	2.50	(0.03,13.92)	146	1.59
#Bhambhani G	284	0	0.00	0.24	0.00	(0.00, 4.90)	284	0.00
Brener S	525	11	2.10	1.64	1.19	(0.59, 2.12)	440	0.45
Chokshi A	130	0	0.00	0.42	0.00	(0.00, 6.21)	130	0.00
##Dominguez-Echeva	28	0	0.00	0.28	0.00	(0.00,43.40)	28	0.00
#Haq S	141	1	0.71	0.85	0.77	(0.01, 4.31)	139	0.49
##Hoyek W	235	3	1.28	0.44	2.72	(0.55, 7.94)	234	2.00
#Jasty B	106	1	0.94	0.54	1.62	(0.02, 9.03)	105	0.98
##John S	9	0	0.00	0.45	0.00	(0.00,84.00)	9	0.00
Palta S	135	0	0.00	0.17	0.00	(0.00,15.25)	135	0.00
Rouvelas P	155	1	0.65	0.44	1.36	(0.02, 7.58)	155	0.76
Sacchi T	1038	10	0.96	0.78	1.15	(0.55, 2.12)	960	0.61
Shah A	169	0	0.00	0.57	0.00	(0.00, 3.50)	165	0.00
Shaknovich A	181	1	0.55	0.66	0.78	(0.01, 4.32)	181	0.53
##Sherman W	19	0	0.00	0.30	0.00	(0.00,59.31)	19	0.00
#Slotwiner A	4	0	0.00	0.69	0.00	(0.00,100.0)	4	0.00
##Srivastava S	7	1	14.29	0.41	32.15	(0.42,100.0)	7	23.21
##Vidyarthi V	6	0	0.00	0.48	0.00	(0.00,100.0)	6	0.00
Wikramanayake T	107	4	3.74	1.19	2.90	(0.78, 7.44)	104	1.78

Table 4, *continued*

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
NY Methodist Hospital, <i>continued</i>								
##Yadav S	229	2	0.87	0.27	2.96	(0.33,10.68)	228	1.92
All Others	174	2	1.15	0.69	1.55	(0.17, 5.61)	170	1.03
TOTAL	4128	39	0.94	0.68	1.29	(0.91, 1.76)	3945	0.74
NYP Hospital - Columbia Presbyterian								
#Apfelbaum M	36	0	0.00	0.51	0.00	(0.00,18.68)	34	0.00
#Bliagos D	231	1	0.43	1.18	0.34	(0.00, 1.89)	220	0.28
#Brogno D	163	1	0.61	0.53	1.07	(0.01, 5.98)	162	0.85
Collins M	538	5	0.93	1.10	0.78	(0.25, 1.83)	509	0.52
#Dangas G	101	0	0.00	1.22	0.00	(0.00, 2.76)	93	0.00
##Dominguez-Echeva	222	0	0.00	0.62	0.00	(0.00, 2.46)	221	0.00
Goyal N	31	1	3.23	0.84	3.57	(0.05,19.84)	31	2.19
Gray W	110	3	2.73	2.84	0.89	(0.18, 2.60)	76	0.00
#Haq S	11	0	0.00	0.15	0.00	(0.00,100.0)	11	0.00
##Hjemdahl-Monsen	135	1	0.74	1.04	0.66	(0.01, 3.66)	127	0.00
#Irobunda C	125	1	0.80	0.46	1.60	(0.02, 8.91)	124	0.96
##Johnson M	100	0	0.00	0.56	0.00	(0.00, 6.03)	99	0.00
##Kalapatapu K	188	3	1.60	1.04	1.42	(0.29, 4.15)	179	0.39
##Kesanakurthy S	410	3	0.73	0.65	1.05	(0.21, 3.06)	403	0.76
Kirtane A	506	4	0.79	1.15	0.64	(0.17, 1.63)	458	0.46
#Kodali S	380	8	2.11	1.54	1.27	(0.54, 2.49)	349	0.97
Kreps E	157	3	1.91	1.23	1.44	(0.29, 4.21)	143	1.13
Leon M	128	2	1.56	0.72	2.01	(0.23, 7.25)	128	1.30
#Moses J	1438	3	0.21	0.52	0.37	(0.07, 1.08)	1436	0.28
#Parikh M	627	1	0.16	0.69	0.21	(0.00, 1.19)	605	0.17
#Perry-Bottinger L	63	0	0.00	0.33	0.00	(0.00,16.19)	63	0.00
#Pucillo A	116	0	0.00	0.59	0.00	(0.00, 5.01)	109	0.00
Rabbani L	609	3	0.49	0.97	0.47	(0.09, 1.37)	549	0.16
##Rentrop K	44	0	0.00	0.23	0.00	(0.00,32.93)	44	0.00
##Sehhat K	100	0	0.00	0.38	0.00	(0.00, 8.84)	100	0.00
##Sherman W	111	2	1.80	1.85	0.90	(0.10, 3.26)	88	0.00
#Singh V	1096	3	0.27	0.53	0.48	(0.10, 1.40)	1075	0.35
#Stathopoulos I	67	0	0.00	0.50	0.00	(0.00,10.20)	66	0.00
Stone G	21	0	0.00	1.08	0.00	(0.00,14.94)	20	0.00
#Weinberger J	29	0	0.00	0.31	0.00	(0.00,37.94)	29	0.00
Weisz G	348	3	0.86	1.36	0.59	(0.12, 1.72)	298	0.49
Williams M	155	2	1.29	2.39	0.50	(0.06, 1.80)	124	0.76
All Others	270	5	1.85	1.61	1.06	(0.34, 2.48)	218	0.37
TOTAL	8666	58	0.67	0.90	0.69 **	(0.52, 0.89)	8191	0.43 **
NYP Hospital - Weill Cornell								
#Aboufares A	27	0	0.00	0.49	0.00	(0.00,25.76)	27	0.00
Bergman G	575	7	1.22	1.47	0.77	(0.31, 1.58)	506	0.70
##Charney R	302	0	0.00	0.88	0.00	(0.00, 1.27)	296	0.00
Feldman D	570	5	0.88	1.47	0.55	(0.18, 1.29)	488	0.54
##Gade C	19	0	0.00	0.64	0.00	(0.00,27.76)	19	0.00
##Kaki A	19	0	0.00	0.33	0.00	(0.00,54.09)	19	0.00
##Kesanakurthy S	342	7	2.05	0.59	3.21 *	(1.29, 6.62)	338	2.01 *
##Messinger D	146	4	2.74	1.30	1.95	(0.52, 4.98)	144	1.19
Minutello R	645	12	1.86	1.50	1.15	(0.59, 2.00)	540	0.76
#Moses J	86	0	0.00	0.53	0.00	(0.00, 7.49)	86	0.00
Sharma A	120	2	1.67	1.49	1.04	(0.12, 3.74)	112	0.69
#Slotwiner A	219	3	1.37	2.23	0.57	(0.11, 1.67)	184	0.56
##Wilentz J	80	0	0.00	0.30	0.00	(0.00,14.38)	80	0.00
Wong S	659	7	1.06	0.87	1.13	(0.45, 2.32)	610	0.75
##Yang Y	38	0	0.00	0.37	0.00	(0.00,24.49)	38	0.00
All Others	325	7	2.15	2.08	0.96	(0.38, 1.98)	261	0.35
TOTAL	4172	54	1.29	1.28	0.94	(0.70, 1.22)	3748	0.67

Table 4, *continued*

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
NYU Hospitals Center								
##Attubato M	1019	7	0.69	0.85	0.75	(0.30, 1.54)	978	0.26
##Babaev A	541	1	0.18	0.40	0.43	(0.01, 2.39)	534	0.32
#Bangalore S	6	0	0.00	0.94	0.00	(0.00,60.38)	1	0.00
##Coppola J	163	1	0.61	0.48	1.19	(0.02, 6.61)	156	0.00
##Feit F	570	2	0.35	0.53	0.61	(0.07, 2.20)	532	0.26
##Iqbal S	36	0	0.00	0.92	0.00	(0.00,10.21)	24	0.00
#Jayasundera T	196	0	0.00	0.27	0.00	(0.00, 6.48)	196	0.00
Kokolis S	20	0	0.00	0.87	0.00	(0.00,19.59)	18	0.00
#Kurian D	18	1	5.56	0.58	8.91	(0.12,49.59)	17	10.55
#Lee J	4	0	0.00	0.15	0.00	(0.00,100.0)	4	0.00
#Liou M	93	0	0.00	0.33	0.00	(0.00,11.09)	93	0.00
#Nguyen T	33	0	0.00	0.23	0.00	(0.00,44.19)	33	0.00
##Rentrop K	4	0	0.00	0.13	0.00	(0.00,100.0)	4	0.00
##Seldon M	5	0	0.00	0.24	0.00	(0.00,100.0)	5	0.00
##Serrano-Gomez C	41	1	2.44	0.37	6.08	(0.08,33.84)	38	4.51
##Shih A T	2	0	0.00	0.42	0.00	(0.00,100.0)	2	0.00
##Slater J	429	5	1.17	0.75	1.43	(0.46, 3.34)	395	1.15
##Srivastava S	52	0	0.00	0.21	0.00	(0.00,30.85)	52	0.00
#Staniloae C	110	0	0.00	0.61	0.00	(0.00, 5.04)	105	0.00
#Weinberger J	5	0	0.00	0.18	0.00	(0.00,100.0)	5	0.00
##Yatskar L	85	0	0.00	0.48	0.00	(0.00, 8.34)	79	0.00
All Others	29	2	6.90	0.96	6.64	(0.75,23.96)	21	7.10 *
TOTAL	3461	20	0.58	0.61	0.88	(0.53, 1.35)	3292	0.46
North Shore University Hospital								
##Arkonac B	33	2	6.06	5.69	0.99	(0.11, 3.56)	.	.
##Bagga R	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
#Blumenthal S	84	0	0.00	0.33	0.00	(0.00,12.09)	83	0.00
#Boutis L	597	4	0.67	1.43	0.43	(0.12, 1.11)	432	0.32
##Caselnova R	16	0	0.00	0.41	0.00	(0.00,51.61)	16	0.00
##Deutsch E	10	0	0.00	0.22	0.00	(0.00,100.0)	10	0.00
##Dhama B	148	2	1.35	0.66	1.90	(0.21, 6.85)	143	1.13
#Freeman J	6	0	0.00	3.01	0.00	(0.00,18.85)	6	0.00
##Friedman G H	117	0	0.00	0.53	0.00	(0.00, 5.47)	111	0.00
##Gambino A	12	1	8.33	0.30	25.63	(0.33,100.0)	12	16.90
#Green S	434	2	0.46	1.18	0.36	(0.04, 1.31)	338	0.30
##Grunwald A	112	0	0.00	0.43	0.00	(0.00, 7.00)	106	0.00
##Gustafson G	10	0	0.00	0.34	0.00	(0.00,99.98)	10	0.00
##Hormozi S	59	0	0.00	0.49	0.00	(0.00,11.68)	58	0.00
#Jauhar R	30	0	0.00	1.67	0.00	(0.00, 6.77)	.	.
#Kaplan B	33	0	0.00	2.19	0.00	(0.00, 4.71)	.	.
#Katz S	358	4	1.12	0.98	1.06	(0.29, 2.71)	275	0.36
##Koss J	85	0	0.00	0.70	0.00	(0.00, 5.70)	77	0.00
Kruger A	101	1	0.99	0.69	1.32	(0.02, 7.36)	92	1.03
#Lederman S	9	0	0.00	0.44	0.00	(0.00,85.36)	9	0.00
#Lee A	448	4	0.89	1.15	0.72	(0.19, 1.85)	313	0.69
#Marchant D	204	0	0.00	1.34	0.00	(0.00, 1.25)	125	0.00
##Ong L Y	526	2	0.38	0.83	0.42	(0.05, 1.53)	455	0.51
##Papadakos S	227	0	0.00	0.52	0.00	(0.00, 2.88)	224	0.00
##Patcha R	94	1	1.06	0.57	1.73	(0.02, 9.63)	89	1.50
##Patel R B	4	0	0.00	0.61	0.00	(0.00,100.0)	4	0.00
##Polena S	75	0	0.00	0.71	0.00	(0.00, 6.40)	75	0.00
##Reich D	1	0	0.00	1.12	0.00	(0.00,100.0)	1	0.00
#Rutkin B	329	2	0.61	1.00	0.56	(0.06, 2.03)	235	0.48
##Schwartz R	42	0	0.00	0.79	0.00	(0.00,10.19)	41	0.00
##Strizik B	242	2	0.83	1.04	0.74	(0.08, 2.66)	222	0.59
##Vidyarathi V	1	0	0.00	0.16	0.00	(0.00,100.0)	1	0.00
Wachsman D	66	1	1.52	0.54	2.61	(0.03,14.49)	65	2.27
#Witkes D	125	0	0.00	0.50	0.00	(0.00, 5.41)	120	0.00
All Others	67	0	0.00	0.49	0.00	(0.00,10.41)	59	0.00
TOTAL	4706	28	0.59	0.99	0.56 **	(0.37, 0.81)	3808	0.46

Table 4, *continued*

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
Orange Regional Medical Center								
#Agarwal A	32	1	3.13	0.21	14.05	(0.18,78.19)	32	10.48
##Gotsis W	585	4	0.68	0.78	0.82	(0.22, 2.09)	474	0.26
##Kalapatapu K	250	3	1.20	0.68	1.64	(0.33, 4.79)	245	1.02
#Shapira S	412	4	0.97	1.06	0.85	(0.23, 2.17)	314	0.31
##Silverman G	336	2	0.60	0.92	0.60	(0.07, 2.15)	241	0.46
TOTAL	1615	14	0.87	0.85	0.94	(0.51, 1.58)	1306	0.57
Rochester General Hospital								
##Chockalingam S	279	5	1.79	1.01	1.65	(0.53, 3.86)	242	0.96
#Doling M	4	0	0.00	0.28	0.00	(0.00,100.0)	4	0.00
Fitzpatrick P	316	3	0.95	1.01	0.87	(0.18, 2.55)	214	1.26
Gacioch G	585	4	0.68	1.04	0.61	(0.16, 1.57)	394	0.00
Mathew T M	265	2	0.75	0.54	1.29	(0.14, 4.65)	247	0.56
#Ong L S	1593	18	1.13	0.93	1.13	(0.67, 1.78)	1440	0.72
#Patel T	301	9	2.99	1.19	2.33 *	(1.06, 4.42)	282	1.37
Scortichini D	193	1	0.52	0.43	1.12	(0.01, 6.23)	189	0.81
#Singer G	284	1	0.35	0.76	0.43	(0.01, 2.40)	260	0.32
#Stefek P	14	0	0.00	0.24	0.00	(0.00,100.0)	14	0.00
#Stuver T	1193	12	1.01	0.91	1.03	(0.53, 1.80)	881	0.33
All Others	146	0	0.00	0.88	0.00	(0.00, 2.65)	102	0.00
TOTAL	5173	55	1.06	0.91	1.08	(0.82, 1.41)	4269	0.65
Samaritan Hospital								
#Bishop G	3	0	0.00	0.81	0.00	(0.00,100.0)	2	0.00
##Brady S	33	0	0.00	0.58	0.00	(0.00,17.81)	24	0.00
##Delago A	7	0	0.00	0.66	0.00	(0.00,73.20)	4	0.00
##Esper D	8	0	0.00	1.01	0.00	(0.00,42.20)	2	0.00
##Khawaja H	6	0	0.00	0.47	0.00	(0.00,100.0)	6	0.00
#Martinelli M	1	0	0.00	0.56	0.00	(0.00,100.0)	.	.
##Papaleo R	141	1	0.71	0.52	1.27	(0.02, 7.08)	113	1.81
##Papandrea L	2	0	0.00	0.16	0.00	(0.00,100.0)	2	0.00
TOTAL	201	1	0.50	0.55	0.84	(0.01, 4.66)	153	1.33
South Nassau Communities Hospital								
#Berke A	10	1	10.00	13.38	0.69	(0.01, 3.85)	.	.
#Freeman J	849	7	0.82	0.85	0.90	(0.36, 1.85)	675	0.50
##Hormozi S	32	0	0.00	2.17	0.00	(0.00, 4.90)	11	0.00
#Lituchy A	14	0	0.00	1.14	0.00	(0.00,21.24)	6	0.00
#Petrossian G	57	1	1.75	0.43	3.74	(0.05,20.80)	56	2.41
#Rehman A	219	3	1.37	1.36	0.93	(0.19, 2.73)	139	1.01
##Zisfein J	370	1	0.27	0.83	0.30	(0.00, 1.69)	323	0.00
TOTAL	1551	13	0.84	1.01	0.77	(0.41, 1.31)	1210	0.46
Southside Hospital								
##Arkonac B	26	1	3.85	2.81	1.27	(0.02, 7.07)	24	0.00
##Caselnova R	39	0	0.00	1.19	0.00	(0.00, 7.30)	13	0.00
##Deutsch E	409	2	0.49	0.49	0.92	(0.10, 3.34)	376	0.40
##Hormozi S	328	2	0.61	0.81	0.70	(0.08, 2.53)	270	0.66
##Lee P J	366	4	1.09	0.60	1.69	(0.45, 4.32)	327	1.32
##Patel R B	215	3	1.40	0.68	1.91	(0.38, 5.57)	170	2.19
##Reich D	243	1	0.41	0.76	0.50	(0.01, 2.80)	211	0.00
TOTAL	1626	13	0.80	0.70	1.06	(0.57, 1.82)	1391	0.75
St. Barnabas Hospital								
##Celaj S	140	1	0.71	0.84	0.79	(0.01, 4.39)	117	0.59
##Greenberg M	9	1	11.11	1.79	5.76	(0.08,32.07)	2	0.00
##Menegus M	12	0	0.00	1.31	0.00	(0.00,21.64)	1	0.00
##Shaqra H	3	0	0.00	1.05	0.00	(0.00,100.0)	1	0.00
##Srinivas V	1	0	0.00	1.23	0.00	(0.00,100.0)	.	.
TOTAL	165	2	1.21	0.93	1.21	(0.14, 4.36)	121	0.57

Table 4, continued

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
St. Catherine of Siena Hospital								
##Deutsch E	160	1	0.63	0.66	0.88	(0.01, 4.90)	135	0.92
##Hormozi S	133	0	0.00	0.85	0.00	(0.00, 3.00)	102	0.00
#Khan S	63	0	0.00	1.00	0.00	(0.00, 5.40)	39	0.00
#Madrid A	8	0	0.00	2.36	0.00	(0.00,18.02)	.	.
##Patel R B	163	2	1.23	0.92	1.23	(0.14, 4.45)	137	0.94
#Rosenband M	102	1	0.98	0.99	0.91	(0.01, 5.08)	83	0.00
#Tsiamtsiouris T	11	0	0.00	2.01	0.00	(0.00,15.35)	.	.
#Weinstein J	82	0	0.00	0.82	0.00	(0.00, 5.06)	53	0.00
All Others	10	0	0.00	0.90	0.00	(0.00,37.81)	9	0.00
TOTAL	732	4	0.55	0.89	0.57	(0.15, 1.46)	558	0.44
St. Elizabeth Medical Center								
#Kelberman M	375	1	0.27	0.78	0.32	(0.00, 1.75)	314	0.32
#Maclsaac H	662	8	1.21	1.29	0.87	(0.37, 1.71)	567	0.57
#Mathew T C	57	0	0.00	1.09	0.00	(0.00, 5.46)	39	0.00
#Nassif R	49	2	4.08	0.66	5.70	(0.64,20.59)	41	0.00
#Patel A	296	0	0.00	1.18	0.00	(0.00, 0.97)	240	0.00
#Sassower M	925	12	1.30	0.80	1.51	(0.78, 2.63)	821	0.86
#Varma P	300	5	1.67	1.18	1.30	(0.42, 3.04)	253	0.95
All Others	10	0	0.00	0.37	0.00	(0.00,91.06)	10	0.00
TOTAL	2674	28	1.05	1.01	0.96	(0.64, 1.39)	2285	0.63
St. Francis Hospital								
Abittan M	320	2	0.63	0.78	0.74	(0.08, 2.69)	310	0.51
#Berke A	282	3	1.06	1.25	0.79	(0.16, 2.30)	252	0.75
##Deutsch E	2	0	0.00	6.99	0.00	(0.00,24.31)	2	0.00
Ezratty A	208	2	0.96	1.34	0.66	(0.07, 2.39)	173	0.00
##Friedman G H	134	0	0.00	0.94	0.00	(0.00, 2.71)	109	0.00
##Gambino A	2	0	0.00	0.28	0.00	(0.00,100.0)	2	0.00
Goldman A B	101	0	0.00	0.88	0.00	(0.00, 3.83)	79	0.00
##Grunwald A	89	2	2.25	0.88	2.36	(0.27, 8.53)	74	1.27
Gulotta R	192	2	1.04	0.88	1.10	(0.12, 3.98)	183	0.79
##Koss J	76	1	1.32	1.76	0.69	(0.01, 3.86)	53	2.76
##Lee P J	68	1	1.47	0.56	2.42	(0.03,13.48)	68	1.44
#Lituchy A	519	2	0.39	0.83	0.43	(0.05, 1.55)	483	0.17
#Madrid A	226	2	0.88	1.03	0.80	(0.09, 2.88)	197	0.00
Mezzafonte S	376	6	1.60	1.09	1.35	(0.49, 2.94)	313	1.38
Minadeo J	193	5	2.59	1.98	1.21	(0.39, 2.83)	152	1.01
Oruci E	175	3	1.71	0.79	2.01	(0.40, 5.88)	166	0.90
Pappas T	304	0	0.00	0.74	0.00	(0.00, 1.52)	296	0.00
##Patcha R	24	1	4.17	0.32	12.00	(0.16,66.78)	23	12.05
#Petrossian G	969	8	0.83	0.88	0.87	(0.37, 1.71)	940	0.65
#Rehman A	261	4	1.53	0.85	1.67	(0.45, 4.28)	241	0.64
##Reich D	78	0	0.00	0.42	0.00	(0.00,10.41)	78	0.00
Shlofmitz R	2571	13	0.51	0.58	0.81	(0.43, 1.39)	2537	0.50
#Tsiamtsiouris T	405	5	1.23	1.34	0.86	(0.28, 2.00)	356	0.62
Venditto J	206	0	0.00	1.04	0.00	(0.00, 1.59)	180	0.00
##Vidyarthi V	4	0	0.00	0.17	0.00	(0.00,100.0)	4	0.00
##Yadav S	4	1	25.00	2.55	9.09	(0.12,50.58)	4	5.58
##Zisfein J	52	1	1.92	1.68	1.06	(0.01, 5.92)	51	0.85
All Others	66	1	1.52	1.56	0.90	(0.01, 5.01)	55	0.00
TOTAL	7907	65	0.82	0.87	0.87	(0.67, 1.11)	7381	0.58
St. Josephs Hospital								
Bhan R	517	6	1.16	0.65	1.65	(0.60, 3.60)	459	1.00
Caputo R	1277	12	0.94	0.89	0.98	(0.51, 1.71)	1047	0.75
El-Khally Z	1222	11	0.90	0.89	0.94	(0.47, 1.69)	1052	0.69
Fischi M	1138	9	0.79	0.96	0.76	(0.35, 1.44)	910	0.86
Giambartolomei A	244	5	2.05	1.01	1.88	(0.61, 4.39)	175	1.72
Iskander A	847	7	0.83	1.02	0.75	(0.30, 1.55)	665	0.30
O'Hern M	397	4	1.01	1.04	0.89	(0.24, 2.29)	325	0.60
Reger M	193	0	0.00	0.58	0.00	(0.00, 3.04)	179	0.00
Simons A	639	2	0.31	0.78	0.37	(0.04, 1.35)	452	0.27
All Others	40	0	0.00	0.53	0.00	(0.00,16.09)	33	0.00
TOTAL	6514	56	0.86	0.89	0.89	(0.68, 1.16)	5297	0.68

Table 4, *continued*

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
St. Lukes Cornwall Hospital - Newburgh								
#Gosselin R	186	1	0.54	0.74	0.67	(0.01, 3.73)	132	0.00
#Hadid A	285	6	2.11	1.12	1.75	(0.64, 3.80)	247	1.29
#Hadid A B	201	0	0.00	1.00	0.00	(0.00, 1.70)	157	0.00
#Jafar M	17	0	0.00	0.34	0.00	(0.00,59.38)	17	0.00
#Shah N	288	4	1.39	1.57	0.82	(0.22, 2.10)	236	0.53
TOTAL	977	11	1.13	1.14	0.91	(0.46, 1.64)	789	0.67
St. Peters Hospital								
#Bishop G	333	4	1.20	1.06	1.05	(0.28, 2.68)	202	0.42
##Brady S	94	3	3.19	0.55	5.33 *	(1.07,15.58)	78	4.30
##Delago A	66	1	1.52	2.49	0.56	(0.01, 3.14)	52	0.00
Desantis J	50	0	0.00	0.63	0.00	(0.00,10.80)	23	0.00
##Esper D	373	2	0.54	0.79	0.63	(0.07, 2.27)	337	0.34
##Khawaja H	43	0	0.00	0.73	0.00	(0.00,10.85)	35	0.00
#Kufs W	59	0	0.00	0.38	0.00	(0.00,15.24)	57	0.00
#Martinelli M	503	4	0.80	0.80	0.92	(0.25, 2.36)	370	1.52
##Papaleo R	14	0	0.00	0.80	0.00	(0.00,30.22)	7	0.00
##Papandrea L	148	2	1.35	0.54	2.33	(0.26, 8.42)	130	2.22
Roccario E	521	7	1.34	1.36	0.91	(0.37, 1.88)	338	0.75
All Others	1	0	0.00	1.79	0.00	(0.00,100.0)	.	.
TOTAL	2205	23	1.04	0.98	0.99	(0.63, 1.48)	1629	0.88
Staten Island University Hospital- North								
Duvvuri S	311	3	0.96	0.92	0.97	(0.20, 2.85)	267	0.00
Farid A	218	3	1.38	0.44	2.93	(0.59, 8.56)	202	1.40
Gala B	215	3	1.40	1.39	0.93	(0.19, 2.71)	174	0.45
##Hoyek W	189	2	1.06	0.96	1.02	(0.11, 3.69)	154	1.19
##Kandov R	233	3	1.29	1.61	0.74	(0.15, 2.16)	169	0.49
Malpeso J	249	3	1.20	1.37	0.81	(0.16, 2.37)	188	0.45
McCord D	328	3	0.91	0.55	1.55	(0.31, 4.53)	315	1.17
##Royzman R	176	0	0.00	1.46	0.00	(0.00, 1.33)	104	0.00
Snyder S	185	3	1.62	0.92	1.64	(0.33, 4.80)	155	0.98
Swamy S	118	0	0.00	0.46	0.00	(0.00, 6.24)	118	0.00
Tamburrino F	504	5	0.99	1.01	0.91	(0.29, 2.12)	450	0.38
Vazzana T	95	1	1.05	0.32	3.09	(0.04,17.17)	93	2.26
Warchol A	94	2	2.13	0.81	2.44	(0.27, 8.82)	69	0.00
All Others	188	1	0.53	0.61	0.81	(0.01, 4.50)	180	0.53
TOTAL	3103	32	1.03	0.96	1.00	(0.68, 1.41)	2638	0.55
Strong Memorial Hospital								
Chaudhary I	164	4	2.44	1.66	1.36	(0.37, 3.48)	88	2.64
##Chockalingam S	1	0	0.00	0.25	0.00	(0.00,100.0)	1	0.00
Cove C	458	5	1.09	1.11	0.91	(0.29, 2.13)	320	1.36
##Doling M	626	9	1.44	1.05	1.27	(0.58, 2.41)	498	0.44
Garringer J	193	2	1.04	0.93	1.03	(0.12, 3.73)	145	0.00
Gassler J	409	3	0.73	1.08	0.63	(0.13, 1.83)	261	0.48
#Ling F	438	5	1.14	1.39	0.76	(0.25, 1.78)	300	0.29
#Narins C	486	2	0.41	0.75	0.51	(0.06, 1.83)	333	0.00
All Others	34	1	2.94	1.65	1.66	(0.02, 9.21)	16	6.20
TOTAL	2809	31	1.10	1.10	0.93	(0.63, 1.32)	1962	0.63
UHS - Wilson Medical Center								
Ahmed O	269	3	1.12	1.33	0.78	(0.16, 2.28)	176	0.59
Jamal N	494	4	0.81	1.79	0.42	(0.11, 1.08)	382	0.85
Kashou H	568	6	1.06	0.95	1.03	(0.38, 2.24)	453	0.72
Rehman A U	213	2	0.94	1.59	0.55	(0.06, 1.98)	137	0.00
Stamato N	242	4	1.65	1.62	0.95	(0.25, 2.42)	166	0.67
Traverse P	382	3	0.79	0.80	0.91	(0.18, 2.65)	300	0.39
TOTAL	2168	22	1.01	1.30	0.72	(0.45, 1.10)	1614	0.63

Table 4, continued

	Cases	Deaths	OMR	All Cases		95% CI for RAMR	Non-emergency	
				EMR	RAMR		Cases	RAMR
Unity Hospital of Rochester								
##Chockalingam S	44	1	2.27	1.82	1.16	(0.02, 6.43)	23	3.80
##Doling M	22	1	4.55	0.59	7.13	(0.09,39.69)	20	8.18
#Ling F	11	1	9.09	2.64	3.19	(0.04,17.77)	8	0.00
#Narins C	28	0	0.00	0.43	0.00	(0.00,28.25)	26	0.00
#Ong L S	34	0	0.00	1.80	0.00	(0.00, 5.54)	25	0.00
#Patel T	714	9	1.26	1.16	1.01	(0.46, 1.91)	541	0.72
#Singer G	32	2	6.25	1.24	4.68	(0.53,16.88)	27	2.19
#Stuver T	1	0	0.00	3.30	0.00	(0.00,100.0)	.	.
TOTAL	886	14	1.58	1.21	1.21	(0.66, 2.04)	670	1.14
University Hospital - Brooklyn								
#Badero O	23	0	0.00	0.22	0.00	(0.00,67.82)	23	0.00
#Bhambhani G	86	0	0.00	0.59	0.00	(0.00, 6.67)	85	0.00
#Castillo R	26	3	11.54	2.96	3.61	(0.73,10.56)	3	44.43
Cavusoglu E	304	3	0.99	0.94	0.97	(0.20, 2.84)	250	0.42
#Chadow H	34	1	2.94	1.46	1.86	(0.02,10.35)	12	0.00
Feit A	273	4	1.47	0.81	1.68	(0.45, 4.31)	227	0.00
#Hegde S	37	1	2.70	1.82	1.37	(0.02, 7.64)	6	0.00
#Jasty B	35	0	0.00	0.41	0.00	(0.00,23.87)	35	0.00
##John S	145	1	0.69	0.82	0.78	(0.01, 4.34)	130	0.00
##Kantrowitz N	3	0	0.00	0.85	0.00	(0.00,100.0)	3	0.00
Marmur J	318	2	0.63	0.79	0.74	(0.08, 2.66)	264	0.91
All Others	95	0	0.00	1.24	0.00	(0.00, 2.90)	89	0.00
TOTAL	1379	15	1.09	0.92	1.10	(0.62, 1.82)	1127	0.39
University Hospital - Brooklyn @ LICH								
##Aslam A K	10	0	0.00	0.41	0.00	(0.00,82.55)	8	0.00
#Coven D	4	1	25.00	3.94	5.88	(0.08,32.71)	.	.
#Gowda R	255	2	0.78	1.44	0.51	(0.06, 1.83)	224	0.36
##Kantrowitz N	226	3	1.33	1.01	1.22	(0.24, 3.55)	157	0.91
#Kwan T	43	0	0.00	0.49	0.00	(0.00,16.25)	42	0.00
#Rosero H	23	0	0.00	0.66	0.00	(0.00,22.52)	15	0.00
##Srivastava S	12	0	0.00	0.71	0.00	(0.00,40.03)	12	0.00
All Others	42	0	0.00	1.07	0.00	(0.00, 7.54)	26	0.00
TOTAL	615	6	0.98	1.15	0.79	(0.29, 1.72)	484	0.44
University Hospital - SUNY Upstate								
#Battaglia J	2	0	0.00	0.52	0.00	(0.00,100.0)	2	0.00
Ford T	155	3	1.94	1.23	1.46	(0.29, 4.26)	89	1.00
#George A	3	0	0.00	0.30	0.00	(0.00,100.0)	3	0.00
#Kozman H	207	7	3.38	1.90	1.65	(0.66, 3.40)	114	2.09
Pratap T	82	2	2.44	2.27	1.00	(0.11, 3.60)	55	1.79
Siddiqui D	332	9	2.71	1.80	1.39	(0.64, 2.65)	229	1.10
TOTAL	781	21	2.69	1.75	1.42	(0.88, 2.17)	492	1.35 *
University Hospital - Stony Brook								
Chernilas J	335	8	2.39	1.49	1.49	(0.64, 2.94)	182	1.67
Dervan J	241	1	0.41	0.73	0.53	(0.01, 2.93)	230	0.35
Gruberg L	598	13	2.17	1.58	1.27	(0.68, 2.17)	360	0.69
Jeremias A	485	7	1.44	1.24	1.08	(0.43, 2.22)	278	0.82
Joseph S	139	0	0.00	0.79	0.00	(0.00, 3.10)	136	0.00
#Khan S	210	3	1.43	0.72	1.84	(0.37, 5.37)	204	1.25
Korlipara G	194	0	0.00	0.67	0.00	(0.00, 2.62)	180	0.00
Lawson W	520	15	2.88	1.66	1.61	(0.90, 2.65)	296	0.26
#Lederman S	221	1	0.45	0.86	0.49	(0.01, 2.72)	208	0.00
Mani A	607	12	1.98	1.57	1.17	(0.60, 2.04)	387	0.99
Montellese D	184	0	0.00	0.57	0.00	(0.00, 3.27)	172	0.00
#Rosenband M	213	4	1.88	0.76	2.28	(0.61, 5.85)	201	2.02
#Weinstein J	554	4	0.72	0.96	0.70	(0.19, 1.78)	510	0.60
All Others	130	2	1.54	1.10	1.29	(0.15, 4.67)	113	0.83
TOTAL	4631	70	1.51	1.20	1.17	(0.91, 1.47)	3457	0.70

Table 4, continued

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
Vassar Brothers Medical Center								
Gorwara S	477	2	0.42	1.22	0.32	(0.04, 1.15)	335	0.27
#Gosselin R	111	1	0.90	0.80	1.05	(0.01, 5.84)	90	1.16
#Jafar M	630	6	0.95	0.86	1.02	(0.37, 2.22)	490	0.49
Kantaros L	376	6	1.60	1.03	1.43	(0.52, 3.11)	274	0.98
#Shah N	22	0	0.00	1.06	0.00	(0.00,14.58)	21	0.00
Yen M	386	7	1.81	0.89	1.89	(0.76, 3.89)	270	1.53
All Others	1	0	0.00	0.06	0.00	(0.00,100.0)	1	0.00
TOTAL	2003	22	1.10	0.98	1.03	(0.65, 1.57)	1481	0.73
Westchester Medical Center								
##Charney R	56	1	1.79	0.41	4.06	(0.05,22.59)	52	0.00
#Cohen M B	212	2	0.94	1.43	0.61	(0.07, 2.21)	154	0.00
#Cuomo L	363	2	0.55	1.27	0.40	(0.05, 1.46)	266	0.68
##Gotsis W	95	1	1.05	1.23	0.79	(0.01, 4.41)	61	0.00
#Hadid A	5	0	0.00	0.28	0.00	(0.00,100.0)	5	0.00
#Hadid A B	14	0	0.00	0.37	0.00	(0.00,65.59)	14	0.00
##Hjemdahl-Monsen	276	3	1.09	1.03	0.97	(0.20, 2.84)	239	0.94
##Kalapatapu K	447	2	0.45	0.91	0.46	(0.05, 1.65)	388	0.44
##Messinger D	45	1	2.22	0.71	2.89	(0.04,16.11)	45	1.82
#Pucillo A	172	4	2.33	1.11	1.94	(0.52, 4.97)	143	1.63
##Shih A T	150	1	0.67	0.87	0.71	(0.01, 3.94)	140	0.54
##Silverman G	53	2	3.77	1.16	3.01	(0.34,10.88)	29	2.86
All Others	334	4	1.20	1.50	0.74	(0.20, 1.89)	211	0.39
TOTAL	2222	23	1.04	1.13	0.85	(0.54, 1.27)	1747	0.68
White Plains Hospital								
#Apfelbaum M	78	2	2.56	2.38	1.00	(0.11, 3.61)	40	3.83
#Bliagos D	304	5	1.64	1.42	1.07	(0.35, 2.50)	258	1.26
##Charney R	21	1	4.76	1.29	3.42	(0.04,19.04)	14	0.00
#Cohen M B	34	0	0.00	0.53	0.00	(0.00,18.79)	27	0.00
#Cuomo L	13	0	0.00	0.52	0.00	(0.00,50.35)	13	0.00
##Hjemdahl-Monsen	21	0	0.00	1.42	0.00	(0.00,11.43)	20	0.00
#Irobunda C	7	0	0.00	0.78	0.00	(0.00,62.47)	3	0.00
##Johnson M	9	0	0.00	0.98	0.00	(0.00,38.50)	2	0.00
##Kalapatapu K	48	0	0.00	0.60	0.00	(0.00,11.71)	41	0.00
#Kodali S	9	0	0.00	0.67	0.00	(0.00,56.07)	4	0.00
##Messinger D	31	0	0.00	1.00	0.00	(0.00,10.92)	24	0.00
##Sherman W	5	1	20.00	2.28	8.13	(0.11,45.22)	5	6.13
All Others	51	3	5.88	1.37	3.97	(0.80,11.59)	40	5.06
TOTAL	631	12	1.90	1.36	1.29	(0.67, 2.26)	491	1.29
Winthrop University Hospital								
Angelopoulos P	74	2	2.70	1.06	2.36	(0.26, 8.51)	49	2.13
#Blumenthal S	4	0	0.00	0.34	0.00	(0.00,100.0)	4	0.00
##Caselnova R	273	3	1.10	0.97	1.05	(0.21, 3.08)	245	0.74
Donohue D	272	3	1.10	1.24	0.82	(0.17, 2.40)	229	0.35
##Gambino A	680	6	0.88	0.71	1.15	(0.42, 2.50)	603	0.63
##Hormozi S	7	0	0.00	0.53	0.00	(0.00,91.43)	6	0.00
Marzo K	286	1	0.35	0.90	0.36	(0.00, 2.01)	237	0.00
#Musso J	6	0	0.00	0.23	0.00	(0.00,100.0)	6	0.00
Naidu S	357	4	1.12	1.57	0.66	(0.18, 1.69)	286	0.64
##Schwartz R	967	3	0.31	0.98	0.29 **	(0.06, 0.86)	876	0.22
#Witkes D	82	0	0.00	0.59	0.00	(0.00, 7.07)	79	0.00
##Zisfein J	3	0	0.00	0.91	0.00	(0.00,100.0)	3	0.00
TOTAL	3011	22	0.73	0.99	0.68	(0.43, 1.03)	2623	0.43
Statewide Total	151605	1405	0.93				128454	0.59

* 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 5

Summary Information for Cardiologists Practicing at More Than One Hospital, 2010–2012 Discharges (Listed Alphabetically by Hospital)

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
Aboufares A	278	2	0.72	0.84	0.80	(0.09, 2.87)	266	0.00
Lenox Hill Hospital	251	2	0.80	0.87	0.84	(0.09, 3.05)	239	0.00
NYP-Weill Cornell	27	0	0.00	0.49	0.00	(0.00,25.76)	27	0.00
Agarwal A	54	2	3.70	0.56	6.08	(0.68,21.94)	45	3.87
Good Sam - Suffern	22	1	4.55	1.09	3.88	(0.05,21.57)	13	0.00
Orange Regional Med Ctr	32	1	3.13	0.21	14.05	(0.18,78.19)	32	10.48
Amsalem Y	141	3	2.13	1.51	1.30	(0.26, 3.80)	107	0.68
Bronx-Lebanon-Cncourse	12	0	0.00	1.92	0.00	(0.00,14.72)	1	0.00
Lenox Hill Hospital	48	2	4.17	1.38	2.79	(0.31,10.07)	39	2.42
Montefiore - Moses	81	1	1.23	1.53	0.75	(0.01, 4.16)	67	0.00
Apfelbaum M	114	2	1.75	1.79	0.91	(0.10, 3.29)	74	2.21
NYP-Columbia Presby.	36	0	0.00	0.51	0.00	(0.00,18.68)	34	0.00
White Plains Hospital	78	2	2.56	2.38	1.00	(0.11, 3.61)	40	3.83
Arkonac B	592	15	2.53	1.64	1.44	(0.80, 2.37)	471	1.12
Long Island Jewish MC	533	12	2.25	1.33	1.57	(0.81, 2.75)	447	1.23
North Shore Univ Hosp	33	2	6.06	5.69	0.99	(0.11, 3.56)	.	.
Southside Hospital	26	1	3.85	2.81	1.27	(0.02, 7.07)	24	0.00
Aslam A K	610	1	0.16	0.19	0.79	(0.01, 4.40)	604	0.52
Mount Sinai Beth Israel	300	0	0.00	0.17	0.00	(0.00, 6.71)	300	0.00
NY Methodist Hospital	300	1	0.33	0.21	1.49	(0.02, 8.27)	296	0.97
Univ. Brooklyn @ LICH	10	0	0.00	0.41	0.00	(0.00,82.55)	8	0.00
Attubato M	1126	12	1.07	0.91	1.08	(0.56, 1.89)	1068	0.38
Bellevue Hospital Ctr	95	5	5.26	1.44	3.39 *	(1.09, 7.91)	78	1.80
Lenox Hill Hospital	12	0	0.00	1.61	0.00	(0.00,17.63)	12	0.00
NYU Hospitals Center	1019	7	0.69	0.85	0.75	(0.30, 1.54)	978	0.26
Babaev A	559	1	0.18	0.50	0.33	(0.00, 1.86)	538	0.30
Bellevue Hospital Ctr	15	0	0.00	3.68	0.00	(0.00, 6.16)	1	0.00
Lenox Hill Hospital	3	0	0.00	1.88	0.00	(0.00,60.16)	3	0.00
NYU Hospitals Center	541	1	0.18	0.40	0.43	(0.01, 2.39)	534	0.32
Badero O	169	1	0.59	0.25	2.20	(0.03,12.26)	169	1.41
NY Methodist Hospital	146	1	0.68	0.25	2.50	(0.03,13.92)	146	1.59
Univ. Hosp-Brooklyn	23	0	0.00	0.22	0.00	(0.00,67.82)	23	0.00
Bagga R	350	1	0.29	0.79	0.34	(0.00, 1.87)	271	0.38
Huntington Hospital	206	1	0.49	0.97	0.46	(0.01, 2.57)	130	0.75
Long Island Jewish MC	143	0	0.00	0.52	0.00	(0.00, 4.55)	140	0.00
North Shore Univ Hosp	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
Bangalore S	245	3	1.22	1.53	0.74	(0.15, 2.17)	181	0.31
Bellevue Hospital Ctr	239	3	1.26	1.54	0.75	(0.15, 2.20)	180	0.31
NYU Hospitals Center	6	0	0.00	0.94	0.00	(0.00,60.38)	1	0.00
Battaglia J	618	6	0.97	0.81	1.11	(0.41, 2.43)	484	1.03
Crouse Hospital	616	6	0.97	0.81	1.12	(0.41, 2.43)	482	1.04
Univ. Hosp-Upstate	2	0	0.00	0.52	0.00	(0.00,100.0)	2	0.00
Berke A	292	4	1.37	1.67	0.76	(0.20, 1.95)	252	0.75
South Nassau Com. Hosp	10	1	10.00	13.38	0.69	(0.01, 3.85)	.	.
St. Francis Hospital	282	3	1.06	1.25	0.79	(0.16, 2.30)	252	0.75

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
Bhambhani G	370	0	0.00	0.33	0.00	(0.00, 2.83)	369	0.00
NY Methodist Hospital	284	0	0.00	0.24	0.00	(0.00, 4.90)	284	0.00
Univ. Hosp-Brooklyn	86	0	0.00	0.59	0.00	(0.00, 6.67)	85	0.00
Bishop G	336	4	1.19	1.06	1.04	(0.28, 2.66)	204	0.42
Samaritan Hospital	3	0	0.00	0.81	0.00	(0.00,100.0)	2	0.00
St. Peters Hosp.	333	4	1.20	1.06	1.05	(0.28, 2.68)	202	0.42
Bliagos D	535	6	1.12	1.32	0.79	(0.29, 1.72)	478	0.75
NYP-Columbia Presby.	231	1	0.43	1.18	0.34	(0.00, 1.89)	220	0.28
White Plains Hospital	304	5	1.64	1.42	1.07	(0.35, 2.50)	258	1.26
Blumenthal S	88	0	0.00	0.34	0.00	(0.00,11.53)	87	0.00
North Shore Univ Hosp	84	0	0.00	0.33	0.00	(0.00,12.09)	83	0.00
Winthrop Univ. Hosp	4	0	0.00	0.34	0.00	(0.00,100.0)	4	0.00
Boutis L	626	5	0.80	1.55	0.48	(0.15, 1.11)	436	0.32
Long Island Jewish MC	29	1	3.45	4.09	0.78	(0.01, 4.35)	4	0.00
North Shore Univ Hosp	597	4	0.67	1.43	0.43	(0.12, 1.11)	432	0.32
Brady S	517	7	1.35	0.69	1.82	(0.73, 3.75)	409	1.34
Albany Med. Ctr	389	4	1.03	0.73	1.30	(0.35, 3.33)	307	0.60
Glens Falls Hospital	1	0	0.00	0.51	0.00	(0.00,100.0)	.	.
Samaritan Hospital	33	0	0.00	0.58	0.00	(0.00,17.81)	24	0.00
St. Peters Hosp.	94	3	3.19	0.55	5.33 *	(1.07,15.58)	78	4.30
Brogno D	501	5	1.00	0.78	1.19	(0.38, 2.78)	441	0.78
Good Sam - Suffern	338	4	1.18	0.90	1.22	(0.33, 3.13)	279	0.74
NYP-Columbia Presby.	163	1	0.61	0.53	1.07	(0.01, 5.98)	162	0.85
Calandra S	445	1	0.22	0.68	0.31	(0.00, 1.71)	347	0.39
Mercy Hospital	433	1	0.23	0.69	0.31	(0.00, 1.72)	335	0.40
Millard Fillmore Hosp	12	0	0.00	0.20	0.00	(0.00,100.0)	12	0.00
Caselnova R	828	6	0.72	0.69	0.97	(0.36, 2.12)	735	0.86
Good Sam-West Islip	499	3	0.60	0.51	1.10	(0.22, 3.20)	460	1.01
Huntington Hospital	1	0	0.00	0.63	0.00	(0.00,100.0)	1	0.00
North Shore Univ Hosp	16	0	0.00	0.41	0.00	(0.00,51.61)	16	0.00
Southside Hospital	39	0	0.00	1.19	0.00	(0.00, 7.30)	13	0.00
Winthrop Univ. Hosp	273	3	1.10	0.97	1.05	(0.21, 3.08)	245	0.74
Castillo R	395	11	2.78	1.55	1.66	(0.83, 2.98)	279	1.26
Brookdale Univ Hosp Med Ctr	369	8	2.17	1.45	1.38	(0.60, 2.73)	276	1.11
Univ. Hosp-Brooklyn	26	3	11.54	2.96	3.61	(0.73,10.56)	3	44.43
Celaj S	487	7	1.44	0.89	1.49	(0.60, 3.07)	375	0.50
Bronx-Lebanon-Cncourse	30	2	6.67	2.22	2.79	(0.31,10.07)	.	.
Montefiore - Moses	313	4	1.28	0.79	1.51	(0.40, 3.85)	257	0.44
Montefiore - Weiler	4	0	0.00	1.32	0.00	(0.00,64.35)	1	0.00
St. Barnabas Hospital	140	1	0.71	0.84	0.79	(0.01, 4.39)	117	0.59
Chadow H	429	7	1.63	1.27	1.19	(0.48, 2.45)	334	0.55
Brookdale Univ Hosp Med Ctr	395	6	1.52	1.26	1.12	(0.41, 2.44)	322	0.55
Univ. Hosp-Brooklyn	34	1	2.94	1.46	1.86	(0.02,10.35)	12	0.00
Charney R	379	2	0.53	0.84	0.58	(0.07, 2.11)	362	0.00
NYP-Weill Cornell	302	0	0.00	0.88	0.00	(0.00, 1.27)	296	0.00
Westchester Med Ctr	56	1	1.79	0.41	4.06	(0.05,22.59)	52	0.00
White Plains Hospital	21	1	4.76	1.29	3.42	(0.04,19.04)	14	0.00
Chaudhry E	76	3	3.95	1.17	3.12	(0.63, 9.12)	44	2.91
Buffalo General Hosp	35	0	0.00	0.88	0.00	(0.00,11.03)	24	0.00
Erie County Med Ctr	1	0	0.00	0.06	0.00	(0.00,100.0)	1	0.00
Mercy Hospital	39	3	7.69	1.47	4.84 *	(0.97,14.13)	19	6.63
Millard Fillmore Hosp	1	0	0.00	0.67	0.00	(0.00,100.0)	.	.

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
Chockalingam S	324	6	1.85	1.11	1.54	(0.56, 3.35)	266	1.18
Rochester General Hosp	279	5	1.79	1.01	1.65	(0.53, 3.86)	242	0.96
Strong Memorial Hosp	1	0	0.00	0.25	0.00	(0.00,100.0)	1	0.00
Unity Hospital	44	1	2.27	1.82	1.16	(0.02, 6.43)	23	3.80
Cohen M B	246	2	0.81	1.31	0.58	(0.06, 2.08)	181	0.00
Westchester Med Ctr	212	2	0.94	1.43	0.61	(0.07, 2.21)	154	0.00
White Plains Hospital	34	0	0.00	0.53	0.00	(0.00,18.79)	27	0.00
Coppola J	226	2	0.88	0.61	1.34	(0.15, 4.83)	202	0.00
Bellevue Hospital Ctr	61	1	1.64	0.98	1.54	(0.02, 8.59)	44	0.00
Lenox Hill Hospital	2	0	0.00	0.25	0.00	(0.00,100.0)	2	0.00
NYU Hospitals Center	163	1	0.61	0.48	1.19	(0.02, 6.61)	156	0.00
Corbelli J	723	6	0.83	0.89	0.86	(0.31, 1.88)	623	0.45
Buffalo General Hosp	93	1	1.08	1.06	0.94	(0.01, 5.23)	67	0.00
Millard Fillmore Hosp	630	5	0.79	0.87	0.85	(0.27, 1.98)	556	0.50
Coven D	204	3	1.47	1.04	1.31	(0.26, 3.84)	151	1.40
Mount Sinai St. Lukes	200	2	1.00	0.98	0.95	(0.11, 3.42)	151	1.40
Univ. Brooklyn @ LICH	4	1	25.00	3.94	5.88	(0.08,32.71)	.	.
Cuomo L	376	2	0.53	1.24	0.40	(0.04, 1.44)	279	0.65
Westchester Med Ctr	363	2	0.55	1.27	0.40	(0.05, 1.46)	266	0.68
White Plains Hospital	13	0	0.00	0.52	0.00	(0.00,50.35)	13	0.00
Dangas G	380	0	0.00	1.20	0.00 **	(0.00, 0.75)	350	0.00
Mount Sinai Hospital	279	0	0.00	1.19	0.00	(0.00, 1.02)	257	0.00
NYP-Columbia Presby.	101	0	0.00	1.22	0.00	(0.00, 2.76)	93	0.00
Dashkoff N	370	2	0.54	1.67	0.30	(0.03, 1.09)	204	0.00
Buffalo General Hosp	2	0	0.00	1.09	0.00	(0.00,100.0)	.	.
Erie County Med Ctr	368	2	0.54	1.67	0.30	(0.03, 1.09)	204	0.00
Delago A	1184	16	1.35	0.82	1.53	(0.88, 2.49)	1048	1.45 *
Albany Med. Ctr	1110	15	1.35	0.72	1.74 *	(0.98, 2.88)	992	1.54 *
Glens Falls Hospital	1	0	0.00	0.63	0.00	(0.00,100.0)	.	.
Samaritan Hospital	7	0	0.00	0.66	0.00	(0.00,73.20)	4	0.00
St. Peters Hosp.	66	1	1.52	2.49	0.56	(0.01, 3.14)	52	0.00
Deutsch E	698	6	0.86	0.58	1.38	(0.51, 3.01)	615	0.46
Good Sam-West Islip	114	3	2.63	0.69	3.56	(0.71,10.39)	89	0.00
Long Island Jewish MC	3	0	0.00	0.60	0.00	(0.00,100.0)	3	0.00
North Shore Univ Hosp	10	0	0.00	0.22	0.00	(0.00,100.0)	10	0.00
Southside Hospital	409	2	0.49	0.49	0.92	(0.10, 3.34)	376	0.40
St. Catherine of Siena	160	1	0.63	0.66	0.88	(0.01, 4.90)	135	0.92
St. Francis Hospital	2	0	0.00	6.99	0.00	(0.00,24.31)	2	0.00
Dhama B	546	5	0.92	0.71	1.20	(0.39, 2.80)	532	0.80
Long Island Jewish MC	397	3	0.76	0.73	0.96	(0.19, 2.82)	388	0.67
NY Hospital - Queens	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
North Shore Univ Hosp	148	2	1.35	0.66	1.90	(0.21, 6.85)	143	1.13
Doling M	652	10	1.53	1.03	1.38	(0.66, 2.54)	522	0.63
Rochester General Hosp	4	0	0.00	0.28	0.00	(0.00,100.0)	4	0.00
Strong Memorial Hosp	626	9	1.44	1.05	1.27	(0.58, 2.41)	498	0.44
Unity Hospital	22	1	4.55	0.59	7.13	(0.09,39.69)	20	8.18
Dominguez-Echevarria A	386	0	0.00	0.62	0.00	(0.00, 1.42)	381	0.00
Lenox Hill Hospital	50	0	0.00	0.36	0.00	(0.00,18.72)	49	0.00
Lutheran Medical Ctr	86	0	0.00	0.88	0.00	(0.00, 4.48)	83	0.00
NY Methodist Hospital	28	0	0.00	0.28	0.00	(0.00,43.40)	28	0.00
NYP-Columbia Presby.	222	0	0.00	0.62	0.00	(0.00, 2.46)	221	0.00

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
Emerson R	219	3	1.37	1.12	1.14	(0.23, 3.32)	125	2.00
Erie County Med Ctr	1	0	0.00	0.26	0.00	(0.00,100.0)	.	.
Mercy Hospital	218	3	1.38	1.12	1.14	(0.23, 3.32)	125	2.00
Esper D	570	7	1.23	0.80	1.42	(0.57, 2.93)	482	0.79
Albany Med. Ctr	189	5	2.65	0.81	3.02 *	(0.97, 7.05)	143	2.33
Samaritan Hospital	8	0	0.00	1.01	0.00	(0.00,42.20)	2	0.00
St. Peters Hosp.	373	2	0.54	0.79	0.63	(0.07, 2.27)	337	0.34
Farhi E	694	5	0.72	0.79	0.84	(0.27, 1.97)	579	0.40
Buffalo General Hosp	691	5	0.72	0.79	0.85	(0.27, 1.99)	579	0.40
Millard Fillmore Hosp	3	0	0.00	1.71	0.00	(0.00,66.22)	.	.
Feit F	714	2	0.28	0.59	0.44	(0.05, 1.58)	645	0.21
Bellevue Hospital Ctr	142	0	0.00	0.85	0.00	(0.00, 2.83)	111	0.00
Lenox Hill Hospital	2	0	0.00	0.19	0.00	(0.00,100.0)	2	0.00
NYU Hospitals Center	570	2	0.35	0.53	0.61	(0.07, 2.20)	532	0.26
Fernaine G	780	7	0.90	0.78	1.06	(0.43, 2.19)	710	0.79
Lenox Hill Hospital	24	0	0.00	0.73	0.00	(0.00,19.30)	24	0.00
Lutheran Medical Ctr	572	5	0.87	0.89	0.91	(0.29, 2.12)	502	0.62
Mount Sinai Hospital	184	2	1.09	0.45	2.26	(0.25, 8.15)	184	1.58
Freeman J	855	7	0.82	0.86	0.88	(0.35, 1.81)	681	0.48
North Shore Univ Hosp	6	0	0.00	3.01	0.00	(0.00,18.85)	6	0.00
South Nassau Com. Hosp	849	7	0.82	0.85	0.90	(0.36, 1.85)	675	0.50
Friedman G H	422	2	0.47	0.83	0.53	(0.06, 1.90)	370	0.33
Long Island Jewish MC	123	1	0.81	0.62	1.22	(0.02, 6.80)	116	1.12
NY Hospital - Queens	48	1	2.08	1.84	1.05	(0.01, 5.84)	34	0.00
North Shore Univ Hosp	117	0	0.00	0.53	0.00	(0.00, 5.47)	111	0.00
St. Francis Hospital	134	0	0.00	0.94	0.00	(0.00, 2.71)	109	0.00
Gade C	98	0	0.00	0.51	0.00	(0.00, 6.82)	94	0.00
Jamaica Hosp Med Ctr	1	0	0.00	4.78	0.00	(0.00,71.19)	.	.
Lenox Hill Hospital	78	0	0.00	0.42	0.00	(0.00,10.35)	75	0.00
NYP-Weill Cornell	19	0	0.00	0.64	0.00	(0.00,27.76)	19	0.00
Gambino A	694	7	1.01	0.70	1.33	(0.53, 2.73)	617	0.82
North Shore Univ Hosp	12	1	8.33	0.30	25.63	(0.33,100.0)	12	16.90
St. Francis Hospital	2	0	0.00	0.28	0.00	(0.00,100.0)	2	0.00
Winthrop Univ. Hosp	680	6	0.88	0.71	1.15	(0.42, 2.50)	603	0.63
Geizhals M	123	2	1.63	1.15	1.30	(0.15, 4.71)	88	0.00
Lenox Hill Hospital	3	0	0.00	0.28	0.00	(0.00,100.0)	3	0.00
NY Hospital - Queens	120	2	1.67	1.18	1.31	(0.15, 4.74)	85	0.00
Gelormini J	554	8	1.44	0.94	1.42	(0.61, 2.81)	439	1.52
Buffalo General Hosp	16	1	6.25	0.45	12.97	(0.17,72.18)	15	7.85
Mercy Hospital	482	7	1.45	1.03	1.31	(0.52, 2.69)	369	1.40
Millard Fillmore Hosp	56	0	0.00	0.30	0.00	(0.00,20.06)	55	0.00
George A	444	5	1.13	1.20	0.87	(0.28, 2.03)	345	0.00
Crouse Hospital	441	5	1.13	1.21	0.87	(0.28, 2.03)	342	0.00
Univ. Hosp-Upstate	3	0	0.00	0.30	0.00	(0.00,100.0)	3	0.00
Goldman A Y	51	0	0.00	0.51	0.00	(0.00,13.11)	50	0.00
Montefiore - Moses	38	0	0.00	0.53	0.00	(0.00,16.86)	37	0.00
Mount Sinai St. Lukes	13	0	0.00	0.44	0.00	(0.00,58.90)	13	0.00
Gosselin R	297	2	0.67	0.76	0.82	(0.09, 2.96)	222	0.55
St. Lukes Cornwall Hosp	186	1	0.54	0.74	0.67	(0.01, 3.73)	132	0.00
Vassar Bros. Med Ctr	111	1	0.90	0.80	1.05	(0.01, 5.84)	90	1.16

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
Gotsis W	879	8	0.91	0.87	0.97	(0.42, 1.91)	695	0.33
Montefiore - Weiler	199	3	1.51	0.97	1.44	(0.29, 4.19)	160	0.62
Orange Regional Med Ctr	585	4	0.68	0.78	0.82	(0.22, 2.09)	474	0.26
Westchester Med Ctr	95	1	1.05	1.23	0.79	(0.01, 4.41)	61	0.00
Gowda R	1001	9	0.90	1.09	0.76	(0.35, 1.45)	890	0.54
Mount Sinai Beth Israel	746	7	0.94	0.98	0.89	(0.36, 1.84)	666	0.61
Univ. Brooklyn @ LICH	255	2	0.78	1.44	0.51	(0.06, 1.83)	224	0.36
Green S	450	2	0.44	1.19	0.34	(0.04, 1.25)	341	0.29
Long Island Jewish MC	16	0	0.00	1.65	0.00	(0.00,12.89)	3	0.00
North Shore Univ Hosp	434	2	0.46	1.18	0.36	(0.04, 1.31)	338	0.30
Greenberg M	634	5	0.79	0.86	0.85	(0.27, 1.97)	514	0.22
Montefiore - Moses	596	4	0.67	0.79	0.79	(0.21, 2.01)	485	0.25
Montefiore - Weiler	29	0	0.00	2.09	0.00	(0.00, 5.62)	27	0.00
St. Barnabas Hospital	9	1	11.11	1.79	5.76	(0.08,32.07)	2	0.00
Grunwald A	429	2	0.47	0.83	0.52	(0.06, 1.89)	379	0.25
Long Island Jewish MC	167	0	0.00	0.78	0.00	(0.00, 2.61)	159	0.00
NY Hospital - Queens	61	0	0.00	1.59	0.00	(0.00, 3.50)	40	0.00
North Shore Univ Hosp	112	0	0.00	0.43	0.00	(0.00, 7.00)	106	0.00
St. Francis Hospital	89	2	2.25	0.88	2.36	(0.27, 8.53)	74	1.27
Gupta R	152	1	0.66	0.82	0.74	(0.01, 4.14)	145	0.54
Long Island Jewish MC	48	0	0.00	0.89	0.00	(0.00, 7.99)	46	0.00
NY Hospital - Queens	104	1	0.96	0.79	1.13	(0.01, 6.28)	99	0.78
Gustafson G	392	3	0.77	0.75	0.94	(0.19, 2.75)	342	0.88
Lenox Hill Hospital	11	0	0.00	0.24	0.00	(0.00,100.0)	11	0.00
NY Hospital - Queens	371	3	0.81	0.78	0.96	(0.19, 2.81)	321	0.91
North Shore Univ Hosp	10	0	0.00	0.34	0.00	(0.00,99.98)	10	0.00
Hadid A	290	6	2.07	1.10	1.74	(0.64, 3.79)	252	1.28
St. Lukes Cornwall Hosp	285	6	2.11	1.12	1.75	(0.64, 3.80)	247	1.29
Westchester Med Ctr	5	0	0.00	0.28	0.00	(0.00,100.0)	5	0.00
Hadid A B	215	0	0.00	0.96	0.00	(0.00, 1.65)	171	0.00
St. Lukes Cornwall Hosp	201	0	0.00	1.00	0.00	(0.00, 1.70)	157	0.00
Westchester Med Ctr	14	0	0.00	0.37	0.00	(0.00,65.59)	14	0.00
Hameedi A	865	0	0.00	0.23	0.00	(0.00, 1.70)	864	0.00
Long Island Jewish MC	777	0	0.00	0.23	0.00	(0.00, 1.86)	776	0.00
Mount Sinai Hospital	73	0	0.00	0.21	0.00	(0.00,22.37)	73	0.00
NY Hospital - Queens	15	0	0.00	0.14	0.00	(0.00,100.0)	15	0.00
Haq N	375	2	0.53	0.95	0.52	(0.06, 1.88)	271	0.36
Buffalo General Hosp	9	0	0.00	1.62	0.00	(0.00,23.29)	.	.
Mercy Hospital	339	2	0.59	0.91	0.60	(0.07, 2.16)	261	0.37
Millard Fillmore Hosp	27	0	0.00	1.20	0.00	(0.00,10.48)	10	0.00
Haq S	152	1	0.66	0.80	0.76	(0.01, 4.25)	150	0.49
NY Methodist Hospital	141	1	0.71	0.85	0.77	(0.01, 4.31)	139	0.49
NYP-Columbia Presby.	11	0	0.00	0.15	0.00	(0.00,100.0)	11	0.00
Hasan C	369	0	0.00	0.25	0.00	(0.00, 3.73)	368	0.00
Mount Sinai Hospital	368	0	0.00	0.25	0.00	(0.00, 3.73)	367	0.00
NY Hospital - Queens	1	0	0.00	0.08	0.00	(0.00,100.0)	1	0.00
Hegde S	198	1	0.51	0.90	0.52	(0.01, 2.89)	165	0.00
Bellevue Hospital Ctr	161	0	0.00	0.69	0.00	(0.00, 3.06)	159	0.00
Univ. Hosp-Brooklyn	37	1	2.70	1.82	1.37	(0.02, 7.64)	6	0.00

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
Hjemdahl-Monsen C	432	4	0.93	1.06	0.81	(0.22, 2.08)	386	0.54
NYP-Columbia Presby.	135	1	0.74	1.04	0.66	(0.01, 3.66)	127	0.00
Westchester Med Ctr	276	3	1.09	1.03	0.97	(0.20, 2.84)	239	0.94
White Plains Hospital	21	0	0.00	1.42	0.00	(0.00,11.43)	20	0.00
Hormozi S	998	5	0.50	0.73	0.64	(0.21, 1.49)	839	0.55
Good Sam-West Islip	439	3	0.68	0.56	1.13	(0.23, 3.30)	392	0.80
North Shore Univ Hosp	59	0	0.00	0.49	0.00	(0.00,11.68)	58	0.00
South Nassau Com. Hosp	32	0	0.00	2.17	0.00	(0.00, 4.90)	11	0.00
Southside Hospital	328	2	0.61	0.81	0.70	(0.08, 2.53)	270	0.66
St. Catherine of Siena	133	0	0.00	0.85	0.00	(0.00, 3.00)	102	0.00
Winthrop Univ. Hosp	7	0	0.00	0.53	0.00	(0.00,91.43)	6	0.00
Hoyek W	502	7	1.39	0.78	1.65	(0.66, 3.40)	431	1.48
Lutheran Medical Ctr	78	2	2.56	1.40	1.70	(0.19, 6.12)	43	0.00
NY Methodist Hospital	235	3	1.28	0.44	2.72	(0.55, 7.94)	234	2.00
Staten Island Univ Hosp	189	2	1.06	0.96	1.02	(0.11, 3.69)	154	1.19
Iqbal S	385	3	0.78	1.06	0.68	(0.14, 2.00)	285	0.00
Bellevue Hospital Ctr	348	3	0.86	1.07	0.75	(0.15, 2.18)	260	0.00
Lenox Hill Hospital	1	0	0.00	0.76	0.00	(0.00,100.0)	1	0.00
NYU Hospitals Center	36	0	0.00	0.92	0.00	(0.00,10.21)	24	0.00
robunda C	132	1	0.76	0.48	1.46	(0.02, 8.15)	127	0.96
NYP-Columbia Presby.	125	1	0.80	0.46	1.60	(0.02, 8.91)	124	0.96
White Plains Hospital	7	0	0.00	0.78	0.00	(0.00,62.47)	3	0.00
Iyer V	407	5	1.23	1.21	0.94	(0.30, 2.19)	284	1.46
Buffalo General Hosp	349	5	1.43	1.03	1.29	(0.42, 3.01)	271	1.53
Erie County Med Ctr	48	0	0.00	2.60	0.00	(0.00, 2.72)	11	0.00
Millard Fillmore Hosp	10	0	0.00	0.98	0.00	(0.00,34.52)	2	0.00
Jafar M	647	6	0.93	0.85	1.01	(0.37, 2.20)	507	0.48
St. Lukes Cornwall Hosp	17	0	0.00	0.34	0.00	(0.00,59.38)	17	0.00
Vassar Bros. Med Ctr	630	6	0.95	0.86	1.02	(0.37, 2.22)	490	0.49
Jain S	509	6	1.18	1.12	0.98	(0.36, 2.12)	380	0.26
Jamaica Hosp Med Ctr	189	6	3.17	1.88	1.57	(0.57, 3.41)	68	1.87
Lenox Hill Hospital	320	0	0.00	0.67	0.00	(0.00, 1.58)	312	0.00
Jasty B	141	1	0.71	0.51	1.30	(0.02, 7.22)	140	0.78
NY Methodist Hospital	106	1	0.94	0.54	1.62	(0.02, 9.03)	105	0.98
Univ. Hosp-Brooklyn	35	0	0.00	0.41	0.00	(0.00,23.87)	35	0.00
Jauhar R	1446	7	0.48	0.70	0.64	(0.26, 1.31)	1241	0.62
Long Island Jewish MC	1416	7	0.49	0.68	0.67	(0.27, 1.38)	1241	0.62
North Shore Univ Hosp	30	0	0.00	1.67	0.00	(0.00, 6.77)	.	.
Jayasundera T	204	0	0.00	0.28	0.00	(0.00, 5.98)	204	0.00
Mount Sinai Hospital	8	0	0.00	0.55	0.00	(0.00,77.54)	8	0.00
NYU Hospitals Center	196	0	0.00	0.27	0.00	(0.00, 6.48)	196	0.00
John S	155	1	0.65	0.79	0.75	(0.01, 4.19)	140	0.00
Brookdale Univ Hosp Med Ctr	1	0	0.00	0.30	0.00	(0.00,100.0)	1	0.00
NY Methodist Hospital	9	0	0.00	0.45	0.00	(0.00,84.00)	9	0.00
Univ. Hosp-Brooklyn	145	1	0.69	0.82	0.78	(0.01, 4.34)	130	0.00
Johnson M	308	3	0.97	0.79	1.14	(0.23, 3.34)	250	0.00
Bronx-Lebanon-Cncourse	28	3	10.71	2.41	4.12	(0.83,12.03)	2	0.00
Montefiore - Moses	171	0	0.00	0.65	0.00	(0.00, 3.07)	147	0.00
NYP-Columbia Presby.	100	0	0.00	0.56	0.00	(0.00, 6.03)	99	0.00
White Plains Hospital	9	0	0.00	0.98	0.00	(0.00,38.50)	2	0.00

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
Kaki A	151	2	1.32	0.69	1.77	(0.20, 6.38)	121	0.00
Jamaica Hosp Med Ctr	13	2	15.38	1.49	9.54 *	(1.07,34.46)	1	0.00
Lenox Hill Hospital	119	0	0.00	0.67	0.00	(0.00, 4.29)	101	0.00
NYP-Weill Cornell	19	0	0.00	0.33	0.00	(0.00,54.09)	19	0.00
Kalapatapu K	933	8	0.86	0.86	0.93	(0.40, 1.83)	853	0.58
NYP-Columbia Presby.	188	3	1.60	1.04	1.42	(0.29, 4.15)	179	0.39
Orange Regional Med Ctr	250	3	1.20	0.68	1.64	(0.33, 4.79)	245	1.02
Westchester Med Ctr	447	2	0.45	0.91	0.46	(0.05, 1.65)	388	0.44
White Plains Hospital	48	0	0.00	0.60	0.00	(0.00,11.71)	41	0.00
Kamran M	983	5	0.51	0.73	0.65	(0.21, 1.51)	750	0.38
Elmhurst Hospital Ctr	946	5	0.53	0.73	0.67	(0.21, 1.56)	713	0.41
Mount Sinai Hospital	37	0	0.00	0.57	0.00	(0.00,16.17)	37	0.00
Kandov R	298	6	2.01	2.01	0.93	(0.34, 2.02)	197	0.42
Good Sam - Suffern	17	1	5.88	3.18	1.72	(0.02, 9.55)	4	0.00
Lutheran Medical Ctr	48	2	4.17	3.51	1.10	(0.12, 3.98)	24	0.00
Staten Island Univ Hosp	233	3	1.29	1.61	0.74	(0.15, 2.16)	169	0.49
Kantrowitz N	245	3	1.22	0.97	1.17	(0.23, 3.41)	176	0.78
Maimonides Medical Ctr	11	0	0.00	0.43	0.00	(0.00,71.38)	11	0.00
Mount Sinai Beth Israel	5	0	0.00	0.51	0.00	(0.00,100.0)	5	0.00
Univ. Brooklyn @ LICH	226	3	1.33	1.01	1.22	(0.24, 3.55)	157	0.91
Univ. Hosp-Brooklyn	3	0	0.00	0.85	0.00	(0.00,100.0)	3	0.00
Kaplan B	1354	10	0.74	0.79	0.86	(0.41, 1.59)	1197	0.72
Long Island Jewish MC	1321	10	0.76	0.76	0.93	(0.44, 1.70)	1197	0.72
North Shore Univ Hosp	33	0	0.00	2.19	0.00	(0.00, 4.71)		
Katz S	394	4	1.02	1.03	0.91	(0.25, 2.33)	282	0.35
Long Island Jewish MC	36	0	0.00	1.58	0.00	(0.00, 5.96)	7	0.00
North Shore Univ Hosp	358	4	1.12	0.98	1.06	(0.29, 2.71)	275	0.36
Kelberman M	391	2	0.51	0.83	0.57	(0.06, 2.06)	325	0.29
Faxton - St. Lukes	16	1	6.25	1.88	3.08	(0.04,17.16)	11	0.00
St. Elizabeth Med Ctr	375	1	0.27	0.78	0.32	(0.00, 1.75)	314	0.32
Kesanakurthy S	1192	11	0.92	0.55	1.56	(0.78, 2.79)	1178	1.06
Lenox Hill Hospital	306	1	0.33	0.48	0.63	(0.01, 3.50)	304	0.42
Mount Sinai Hospital	134	0	0.00	0.28	0.00	(0.00, 8.99)	133	0.00
NYP-Columbia Presby.	410	3	0.73	0.65	1.05	(0.21, 3.06)	403	0.76
NYP-Weill Cornell	342	7	2.05	0.59	3.21 *	(1.29, 6.62)	338	2.01 *
Khan S	273	3	1.10	0.78	1.30	(0.26, 3.79)	243	1.08
St. Catherine of Siena	63	0	0.00	1.00	0.00	(0.00, 5.40)	39	0.00
Univ. Hosp-Stony Brook	210	3	1.43	0.72	1.84	(0.37, 5.37)	204	1.25
Khawaja H	135	4	2.96	0.65	4.23 *	(1.14,10.84)	105	0.00
Albany Med. Ctr	86	4	4.65	0.62	6.94 *	(1.87,17.78)	64	0.00
Samaritan Hospital	6	0	0.00	0.47	0.00	(0.00,100.0)	6	0.00
St. Peters Hosp.	43	0	0.00	0.73	0.00	(0.00,10.85)	35	0.00
Kim B	151	1	0.66	0.36	1.71	(0.02, 9.51)	151	1.18
Lenox Hill Hospital	99	1	1.01	0.41	2.27	(0.03,12.61)	99	1.54
Long Island Jewish MC	36	0	0.00	0.27	0.00	(0.00,34.88)	36	0.00
Mount Sinai Beth Israel	9	0	0.00	0.31	0.00	(0.00,100.0)	9	0.00
NY Hospital - Queens	7	0	0.00	0.12	0.00	(0.00,100.0)	7	0.00
Kim M	1901	13	0.68	0.88	0.72	(0.39, 1.24)	1817	0.41
Elmhurst Hospital Ctr	41	0	0.00	1.75	0.00	(0.00, 4.73)	2	0.00
Mount Sinai Hospital	1860	13	0.70	0.86	0.76	(0.40, 1.29)	1815	0.41

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
Kodali S	389	8	2.06	1.52	1.25	(0.54, 2.47)	353	0.96
NYP-Columbia Presby.	380	8	2.11	1.54	1.27	(0.54, 2.49)	349	0.97
White Plains Hospital	9	0	0.00	0.67	0.00	(0.00,56.07)	4	0.00
Koss J	397	3	0.76	0.97	0.72	(0.15, 2.11)	339	0.97
Long Island Jewish MC	204	2	0.98	0.76	1.20	(0.14, 4.34)	190	1.05
NY Hospital - Queens	32	0	0.00	1.16	0.00	(0.00, 9.16)	19	0.00
North Shore Univ Hosp	85	0	0.00	0.70	0.00	(0.00, 5.70)	77	0.00
St. Francis Hospital	76	1	1.32	1.76	0.69	(0.01, 3.86)	53	2.76
Kozman H	211	7	3.32	1.88	1.63	(0.65, 3.36)	114	2.09
Faxton - St. Lukes	4	0	0.00	1.04	0.00	(0.00,81.33)	.	.
Univ. Hosp-Upstate	207	7	3.38	1.90	1.65	(0.66, 3.40)	114	2.09
Kufs W	124	0	0.00	0.40	0.00	(0.00, 6.85)	119	0.00
Ellis Hospital	65	0	0.00	0.42	0.00	(0.00,12.43)	62	0.00
St. Peters Hosp.	59	0	0.00	0.38	0.00	(0.00,15.24)	57	0.00
Kukar A	285	2	0.70	0.69	0.95	(0.11, 3.42)	265	0.36
Jamaica Hosp Med Ctr	7	0	0.00	1.42	0.00	(0.00,34.20)	.	.
Lenox Hill Hospital	278	2	0.72	0.67	1.00	(0.11, 3.60)	265	0.36
Kurian D	47	2	4.26	0.55	7.12	(0.80,25.71)	44	5.82 *
Bellevue Hospital Ctr	29	1	3.45	0.54	5.93	(0.08,33.00)	27	4.02
NYU Hospitals Center	18	1	5.56	0.58	8.91	(0.12,49.59)	17	10.55
Kwan T	807	1	0.12	0.41	0.28	(0.00, 1.57)	805	0.00
Mount Sinai Beth Israel	764	1	0.13	0.40	0.30	(0.00, 1.68)	763	0.00
Univ. Brooklyn @ LICH	43	0	0.00	0.49	0.00	(0.00,16.25)	42	0.00
Lasic Z	447	6	1.34	1.40	0.89	(0.32, 1.94)	303	0.26
Jamaica Hosp Med Ctr	188	6	3.19	2.29	1.29	(0.47, 2.81)	51	1.82
Lenox Hill Hospital	259	0	0.00	0.75	0.00	(0.00, 1.75)	252	0.00
Lederman S	230	1	0.43	0.84	0.48	(0.01, 2.66)	217	0.00
North Shore Univ Hosp	9	0	0.00	0.44	0.00	(0.00,85.36)	9	0.00
Univ. Hosp-Stony Brook	221	1	0.45	0.86	0.49	(0.01, 2.72)	208	0.00
Lee A	473	4	0.85	1.21	0.65	(0.17, 1.66)	315	0.69
Long Island Jewish MC	25	0	0.00	2.29	0.00	(0.00, 5.93)	2	0.00
North Shore Univ Hosp	448	4	0.89	1.15	0.72	(0.19, 1.85)	313	0.69
Lee J	26	0	0.00	0.31	0.00	(0.00,42.51)	26	0.00
Mount Sinai Hospital	22	0	0.00	0.34	0.00	(0.00,46.04)	22	0.00
NYU Hospitals Center	4	0	0.00	0.15	0.00	(0.00,100.0)	4	0.00
Lee P C	135	0	0.00	1.04	0.00	(0.00, 2.43)	110	0.00
Lutheran Medical Ctr	53	0	0.00	1.79	0.00	(0.00, 3.58)	28	0.00
Mount Sinai Beth Israel	26	0	0.00	0.28	0.00	(0.00,47.17)	26	0.00
Mount Sinai Hospital	56	0	0.00	0.67	0.00	(0.00, 9.03)	56	0.00
Lee P J	900	11	1.22	0.52	2.18 *	(1.08, 3.89)	811	1.22
Good Sam-West Islip	466	6	1.29	0.45	2.64 *	(0.96, 5.75)	416	1.03
Southside Hospital	366	4	1.09	0.60	1.69	(0.45, 4.32)	327	1.32
St. Francis Hospital	68	1	1.47	0.56	2.42	(0.03,13.48)	68	1.44
Ling F	449	6	1.34	1.42	0.87	(0.32, 1.90)	308	0.29
Strong Memorial Hosp	438	5	1.14	1.39	0.76	(0.25, 1.78)	300	0.29
Unity Hospital	11	1	9.09	2.64	3.19	(0.04,17.77)	8	0.00
Liou M	257	1	0.39	0.47	0.77	(0.01, 4.27)	255	0.58
Mount Sinai Beth Israel	164	1	0.61	0.55	1.03	(0.01, 5.73)	162	0.77
NYU Hospitals Center	93	0	0.00	0.33	0.00	(0.00,11.09)	93	0.00

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
Lituchy A	533	2	0.38	0.84	0.41	(0.05, 1.49)	489	0.17
South Nassau Com. Hosp	14	0	0.00	1.14	0.00	(0.00,21.24)	6	0.00
St. Francis Hospital	519	2	0.39	0.83	0.43	(0.05, 1.55)	483	0.17
Maclsaac H	717	11	1.53	1.37	1.04	(0.52, 1.86)	603	0.68
Faxton - St. Lukes	55	3	5.45	2.27	2.23	(0.45, 6.50)	36	2.29
St. Elizabeth Med Ctr	662	8	1.21	1.29	0.87	(0.37, 1.71)	567	0.57
Madrid A	234	2	0.85	1.08	0.74	(0.08, 2.66)	197	0.00
St. Catherine of Siena	8	0	0.00	2.36	0.00	(0.00,18.02)	.	.
St. Francis Hospital	226	2	0.88	1.03	0.80	(0.09, 2.88)	197	0.00
Marchant D	228	0	0.00	1.47	0.00	(0.00, 1.02)	128	0.00
Long Island Jewish MC	24	0	0.00	2.56	0.00	(0.00, 5.53)	3	0.00
North Shore Univ Hosp	204	0	0.00	1.34	0.00	(0.00, 1.25)	125	0.00
Martinelli M	504	4	0.79	0.80	0.92	(0.25, 2.36)	370	1.52
Samaritan Hospital	1	0	0.00	0.56	0.00	(0.00,100.0)	.	.
St. Peters Hosp.	503	4	0.80	0.80	0.92	(0.25, 2.36)	370	1.52
Masud A	425	8	1.88	0.85	2.05	(0.88, 4.03)	381	0.90
Buffalo General Hosp	220	7	3.18	0.99	2.98 *	(1.19, 6.14)	198	1.68
Millard Fillmore Hosp	205	1	0.49	0.70	0.64	(0.01, 3.57)	183	0.00
Mathew T C	447	3	0.67	0.69	0.90	(0.18, 2.64)	375	0.46
Faxton - St. Lukes	390	3	0.77	0.63	1.13	(0.23, 3.31)	336	0.53
St. Elizabeth Med Ctr	57	0	0.00	1.09	0.00	(0.00, 5.46)	39	0.00
Menegus M	581	7	1.20	0.95	1.18	(0.47, 2.43)	425	0.63
Montefiore - Moses	563	6	1.07	0.94	1.05	(0.38, 2.29)	419	0.63
Montefiore - Weiler	6	1	16.67	0.85	18.24	(0.24,100.0)	5	0.00
St. Barnabas Hospital	12	0	0.00	1.31	0.00	(0.00,21.64)	1	0.00
Messinger D	222	5	2.25	1.14	1.83	(0.59, 4.26)	213	1.20
NYP-Weill Cornell	146	4	2.74	1.30	1.95	(0.52, 4.98)	144	1.19
Westchester Med Ctr	45	1	2.22	0.71	2.89	(0.04,16.11)	45	1.82
White Plains Hospital	31	0	0.00	1.00	0.00	(0.00,10.92)	24	0.00
Morris W	1037	11	1.06	0.83	1.18	(0.59, 2.11)	917	0.90
Buffalo General Hosp	1027	11	1.07	0.83	1.20	(0.60, 2.15)	916	0.90
Mercy Hospital	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
Millard Fillmore Hosp	9	0	0.00	1.70	0.00	(0.00,22.23)	.	.
Moses J	1524	3	0.20	0.52	0.35	(0.07, 1.02)	1522	0.26
NYP-Columbia Presby.	1438	3	0.21	0.52	0.37	(0.07, 1.08)	1436	0.28
NYP-Weill Cornell	86	0	0.00	0.53	0.00	(0.00, 7.49)	86	0.00
Musso J	13	0	0.00	0.24	0.00	(0.00,100.0)	13	0.00
Long Island Jewish MC	7	0	0.00	0.26	0.00	(0.00,100.0)	7	0.00
Winthrop Univ. Hosp	6	0	0.00	0.23	0.00	(0.00,100.0)	6	0.00
Narins C	514	2	0.39	0.74	0.49	(0.06, 1.77)	359	0.00
Strong Memorial Hosp	486	2	0.41	0.75	0.51	(0.06, 1.83)	333	0.00
Unity Hospital	28	0	0.00	0.43	0.00	(0.00,28.25)	26	0.00
Nassif R	251	5	1.99	0.54	3.41 *	(1.10, 7.95)	219	2.64
Faxton - St. Lukes	202	3	1.49	0.51	2.69	(0.54, 7.85)	178	3.63 *
St. Elizabeth Med Ctr	49	2	4.08	0.66	5.70	(0.64,20.59)	41	0.00
Nguyen T	34	0	0.00	0.23	0.00	(0.00,43.33)	34	0.00
Mount Sinai Hospital	1	0	0.00	0.15	0.00	(0.00,100.0)	1	0.00
NYU Hospitals Center	33	0	0.00	0.23	0.00	(0.00,44.19)	33	0.00

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
Ong L S	1627	18	1.11	0.95	1.08	(0.64, 1.71)	1465	0.72
Rochester General Hosp	1593	18	1.13	0.93	1.13	(0.67, 1.78)	1440	0.72
Unity Hospital	34	0	0.00	1.80	0.00	(0.00, 5.54)	25	0.00
Ong L Y	562	2	0.36	0.83	0.40	(0.04, 1.43)	482	0.48
Huntington Hospital	26	0	0.00	0.54	0.00	(0.00,24.13)	23	0.00
Long Island Jewish MC	10	0	0.00	1.60	0.00	(0.00,21.22)	4	0.00
North Shore Univ Hosp	526	2	0.38	0.83	0.42	(0.05, 1.53)	455	0.51
Palkhiwala S	697	3	0.43	0.43	0.92	(0.19, 2.70)	695	0.56
Lenox Hill Hospital	17	0	0.00	0.17	0.00	(0.00,100.0)	17	0.00
Mount Sinai Hospital	680	3	0.44	0.44	0.93	(0.19, 2.72)	678	0.56
Papadakos S	644	4	0.62	0.73	0.79	(0.21, 2.03)	604	0.64
Lenox Hill Hospital	247	1	0.40	0.43	0.88	(0.01, 4.87)	243	0.61
NY Hospital - Queens	170	3	1.76	1.44	1.14	(0.23, 3.33)	137	1.08
North Shore Univ Hosp	227	0	0.00	0.52	0.00	(0.00, 2.88)	224	0.00
Papaleo R	617	7	1.13	0.59	1.78	(0.71, 3.67)	527	1.11
Albany Med. Ctr	437	5	1.14	0.51	2.09	(0.67, 4.88)	406	0.94
Glens Falls Hospital	25	1	4.00	2.35	1.57	(0.02, 8.76)	1	0.00
Samaritan Hospital	141	1	0.71	0.52	1.27	(0.02, 7.08)	113	1.81
St. Peters Hosp.	14	0	0.00	0.80	0.00	(0.00,30.22)	7	0.00
Papandrea L	164	2	1.22	0.60	1.89	(0.21, 6.84)	138	2.13
Albany Med. Ctr	14	0	0.00	1.29	0.00	(0.00,18.86)	6	0.00
Samaritan Hospital	2	0	0.00	0.16	0.00	(0.00,100.0)	2	0.00
St. Peters Hosp.	148	2	1.35	0.54	2.33	(0.26, 8.42)	130	2.22
Parikh M	915	2	0.22	0.72	0.28	(0.03, 1.02)	892	0.22
Lenox Hill Hospital	288	1	0.35	0.77	0.42	(0.01, 2.34)	287	0.31
NYP-Columbia Presby.	627	1	0.16	0.69	0.21	(0.00, 1.19)	605	0.17
Patcha R	239	2	0.84	0.79	0.99	(0.11, 3.56)	187	1.71
Huntington Hospital	121	0	0.00	1.05	0.00	(0.00, 2.68)	75	0.00
North Shore Univ Hosp	94	1	1.06	0.57	1.73	(0.02, 9.63)	89	1.50
St. Francis Hospital	24	1	4.17	0.32	12.00	(0.16,66.78)	23	12.05
Patel A	313	1	0.32	1.19	0.25	(0.00, 1.39)	247	0.00
Faxton - St. Lukes	17	1	5.88	1.27	4.30	(0.06,23.91)	7	0.00
St. Elizabeth Med Ctr	296	0	0.00	1.18	0.00	(0.00, 0.97)	240	0.00
Patel R B	500	5	1.00	0.76	1.22	(0.39, 2.85)	394	1.32
Good Sam-West Islip	118	0	0.00	0.68	0.00	(0.00, 4.24)	83	0.00
North Shore Univ Hosp	4	0	0.00	0.61	0.00	(0.00,100.0)	4	0.00
Southside Hospital	215	3	1.40	0.68	1.91	(0.38, 5.57)	170	2.19
St. Catherine of Siena	163	2	1.23	0.92	1.23	(0.14, 4.45)	137	0.94
Patel T	1015	18	1.77	1.17	1.40	(0.83, 2.22)	823	1.08
Rochester General Hosp	301	9	2.99	1.19	2.33 *	(1.06, 4.42)	282	1.37
Unity Hospital	714	9	1.26	1.16	1.01	(0.46, 1.91)	541	0.72
Perry-Bottinger L	68	0	0.00	0.36	0.00	(0.00,14.01)	68	0.00
NY Hospital - Queens	5	0	0.00	0.65	0.00	(0.00,100.0)	5	0.00
NYP-Columbia Presby.	63	0	0.00	0.33	0.00	(0.00,16.19)	63	0.00
Petrossian G	1026	9	0.88	0.85	0.95	(0.43, 1.81)	996	0.70
South Nassau Com. Hosp	57	1	1.75	0.43	3.74	(0.05,20.80)	56	2.41
St. Francis Hospital	969	8	0.83	0.88	0.87	(0.37, 1.71)	940	0.65
Phadke K	843	5	0.59	0.94	0.58	(0.19, 1.36)	649	0.19
Buffalo General Hosp	227	3	1.32	1.04	1.17	(0.24, 3.43)	154	0.77
Erie County Med Ctr	8	0	0.00	4.29	0.00	(0.00, 9.91)	4	0.00
Mercy Hospital	1	0	0.00	0.10	0.00	(0.00,100.0)	1	0.00
Millard Fillmore Hosp	607	2	0.33	0.86	0.35	(0.04, 1.28)	490	0.00

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
Polena S	266	3	1.13	0.71	1.46	(0.29, 4.27)	228	0.94
Huntington Hospital	168	3	1.79	0.67	2.46	(0.49, 7.18)	130	2.39
Long Island Jewish MC	23	0	0.00	1.04	0.00	(0.00,14.15)	23	0.00
North Shore Univ Hosp	75	0	0.00	0.71	0.00	(0.00, 6.40)	75	0.00
Pucillo A	288	4	1.39	0.90	1.43	(0.39, 3.67)	252	1.15
NYP-Columbia Presby.	116	0	0.00	0.59	0.00	(0.00, 5.01)	109	0.00
Westchester Med Ctr	172	4	2.33	1.11	1.94	(0.52, 4.97)	143	1.63
Puma A	202	3	1.49	0.45	3.04	(0.61, 8.88)	186	0.92
Jamaica Hosp Med Ctr	12	2	16.67	1.64	9.41*	(1.06,33.98)	.	.
Lenox Hill Hospital	190	1	0.53	0.38	1.29	(0.02, 7.19)	186	0.92
Pyo R	335	9	2.69	1.35	1.84	(0.84, 3.50)	272	1.41
Elmhurst Hospital Ctr	40	3	7.50	3.34	2.08	(0.42, 6.08)	4	0.00
Good Sam - Suffern	122	3	2.46	1.04	2.20	(0.44, 6.42)	110	1.48
Lutheran Medical Ctr	3	0	0.00	3.45	0.00	(0.00,32.83)	.	.
Mount Sinai Hospital	170	3	1.76	1.07	1.53	(0.31, 4.47)	158	1.38
Raza J	533	9	1.69	0.98	1.60	(0.73, 3.03)	401	0.77
Jamaica Hosp Med Ctr	184	6	3.26	1.86	1.63	(0.59, 3.54)	56	1.51
Lenox Hill Hospital	349	3	0.86	0.51	1.55	(0.31, 4.52)	345	0.62
Rehman A	480	7	1.46	1.08	1.25	(0.50, 2.57)	380	0.73
South Nassau Com. Hosp	219	3	1.37	1.36	0.93	(0.19, 2.73)	139	1.01
St. Francis Hospital	261	4	1.53	0.85	1.67	(0.45, 4.28)	241	0.64
Reich D	674	2	0.30	0.56	0.49	(0.05, 1.77)	590	0.24
Good Sam-West Islip	352	1	0.28	0.46	0.58	(0.01, 3.20)	300	0.74
North Shore Univ Hosp	1	0	0.00	1.12	0.00	(0.00,100.0)	1	0.00
Southside Hospital	243	1	0.41	0.76	0.50	(0.01, 2.80)	211	0.00
St. Francis Hospital	78	0	0.00	0.42	0.00	(0.00,10.41)	78	0.00
Rentrop K	58	0	0.00	0.23	0.00	(0.00,25.20)	58	0.00
Lenox Hill Hospital	10	0	0.00	0.26	0.00	(0.00,100.0)	10	0.00
NYP-Columbia Presby.	44	0	0.00	0.23	0.00	(0.00,32.93)	44	0.00
NYU Hospitals Center	4	0	0.00	0.13	0.00	(0.00,100.0)	4	0.00
Rosenband M	315	5	1.59	0.84	1.76	(0.57, 4.10)	284	1.56
St. Catherine of Siena	102	1	0.98	0.99	0.91	(0.01, 5.08)	83	0.00
Univ. Hosp-Stony Brook	213	4	1.88	0.76	2.28	(0.61, 5.85)	201	2.02
Rosero H	412	4	0.97	0.67	1.34	(0.36, 3.42)	357	1.13
Mount Sinai Beth Israel	389	4	1.03	0.67	1.41	(0.38, 3.62)	342	1.18
Univ. Brooklyn @ LICH	23	0	0.00	0.66	0.00	(0.00,22.52)	15	0.00
Roubin G	92	0	0.00	0.48	0.00	(0.00, 7.69)	89	0.00
Lenox Hill Hospital	89	0	0.00	0.47	0.00	(0.00, 8.10)	86	0.00
Mount Sinai Beth Israel	1	0	0.00	0.13	0.00	(0.00,100.0)	1	0.00
Mount Sinai St. Lukes	2	0	0.00	1.04	0.00	(0.00,100.0)	2	0.00
Royzman R	226	1	0.44	2.08	0.20	(0.00, 1.10)	124	0.00
Good Sam - Suffern	9	0	0.00	5.67	0.00	(0.00, 6.66)	2	0.00
Lutheran Medical Ctr	41	1	2.44	3.96	0.57	(0.01, 3.17)	18	0.00
Staten Island Univ Hosp	176	0	0.00	1.46	0.00	(0.00, 1.33)	104	0.00
Rutkin B	352	2	0.57	1.02	0.52	(0.06, 1.87)	236	0.48
Long Island Jewish MC	23	0	0.00	1.26	0.00	(0.00,11.70)	1	0.00
North Shore Univ Hosp	329	2	0.61	1.00	0.56	(0.06, 2.03)	235	0.48
Sassower M	964	13	1.35	0.82	1.52	(0.81, 2.60)	849	0.82
Faxton - St. Lukes	39	1	2.56	1.40	1.70	(0.02, 9.43)	28	0.00
St. Elizabeth Med Ctr	925	12	1.30	0.80	1.51	(0.78, 2.63)	821	0.86

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
Schwartz R	1010	3	0.30	0.97	0.28 **	(0.06, 0.83)	917	0.21
Huntington Hospital	1	0	0.00	0.89	0.00	(0.00,100.0)	.	.
North Shore Univ Hosp	42	0	0.00	0.79	0.00	(0.00,10.19)	41	0.00
Winthrop Univ. Hosp	967	3	0.31	0.98	0.29 **	(0.06, 0.86)	876	0.22
Sehhat K	135	0	0.00	0.43	0.00	(0.00, 5.81)	134	0.00
Montefiore - Moses	33	0	0.00	0.60	0.00	(0.00,17.08)	32	0.00
Mount Sinai Beth Israel	2	0	0.00	0.09	0.00	(0.00,100.0)	2	0.00
NYP-Columbia Presby.	100	0	0.00	0.38	0.00	(0.00, 8.84)	100	0.00
Seldon M	10	0	0.00	0.46	0.00	(0.00,73.46)	10	0.00
Lenox Hill Hospital	3	0	0.00	0.29	0.00	(0.00,100.0)	3	0.00
Mount Sinai Beth Israel	2	0	0.00	1.29	0.00	(0.00,100.0)	2	0.00
NYU Hospitals Center	5	0	0.00	0.24	0.00	(0.00,100.0)	5	0.00
Serrano-Gomez C	105	1	0.95	0.48	1.84	(0.02,10.23)	94	1.88
Bellevue Hospital Ctr	8	0	0.00	2.20	0.00	(0.00,19.31)	.	.
Elmhurst Hospital Ctr	7	0	0.00	0.31	0.00	(0.00,100.0)	7	0.00
Mount Sinai Hospital	48	0	0.00	0.32	0.00	(0.00,22.46)	48	0.00
Mount Sinai St. Lukes	1	0	0.00	0.27	0.00	(0.00,100.0)	1	0.00
NYU Hospitals Center	41	1	2.44	0.37	6.08	(0.08,33.84)	38	4.51
Shah N	310	4	1.29	1.54	0.78	(0.21, 1.99)	257	0.48
St. Lukes Cornwall Hosp	288	4	1.39	1.57	0.82	(0.22, 2.10)	236	0.53
Vassar Bros. Med Ctr	22	0	0.00	1.06	0.00	(0.00,14.58)	21	0.00
Shapira S	422	4	0.95	1.05	0.84	(0.23, 2.14)	324	0.30
Good Sam - Suffern	10	0	0.00	0.58	0.00	(0.00,58.42)	10	0.00
Orange Regional Med Ctr	412	4	0.97	1.06	0.85	(0.23, 2.17)	314	0.31
Shaqra H	285	2	0.70	1.05	0.62	(0.07, 2.23)	192	0.00
Bronx-Lebanon-Cncourse	76	2	2.63	2.06	1.18	(0.13, 4.27)	5	0.00
Montefiore - Moses	201	0	0.00	0.67	0.00	(0.00, 2.52)	183	0.00
Montefiore - Weiler	5	0	0.00	0.99	0.00	(0.00,68.85)	3	0.00
St. Barnabas Hospital	3	0	0.00	1.05	0.00	(0.00,100.0)	1	0.00
Sherman W	135	3	2.22	1.65	1.25	(0.25, 3.65)	112	0.68
NY Methodist Hospital	19	0	0.00	0.30	0.00	(0.00,59.31)	19	0.00
NYP-Columbia Presby.	111	2	1.80	1.85	0.90	(0.10, 3.26)	88	0.00
White Plains Hospital	5	1	20.00	2.28	8.13	(0.11,45.22)	5	6.13
Shih A T	173	1	0.58	0.81	0.66	(0.01, 3.67)	162	0.50
Montefiore - Moses	3	0	0.00	0.60	0.00	(0.00,100.0)	3	0.00
Mount Sinai Hospital	18	0	0.00	0.39	0.00	(0.00,49.00)	17	0.00
NYU Hospitals Center	2	0	0.00	0.42	0.00	(0.00,100.0)	2	0.00
Westchester Med Ctr	150	1	0.67	0.87	0.71	(0.01, 3.94)	140	0.54
Silverman G	577	10	1.73	0.90	1.79	(0.86, 3.30)	417	1.40
Montefiore - Weiler	188	6	3.19	0.77	3.85 *	(1.40, 8.37)	147	2.93
Orange Regional Med Ctr	336	2	0.60	0.92	0.60	(0.07, 2.15)	241	0.46
Westchester Med Ctr	53	2	3.77	1.16	3.01	(0.34,10.88)	29	2.86
Simon C	435	11	2.53	1.69	1.39	(0.69, 2.48)	378	1.24
Mount Sinai Hospital	11	0	0.00	0.35	0.00	(0.00,87.56)	11	0.00
Mount Sinai St. Lukes	424	11	2.59	1.73	1.39	(0.69, 2.49)	367	1.26
Singer G	316	3	0.95	0.81	1.09	(0.22, 3.19)	287	0.55
Rochester General Hosp	284	1	0.35	0.76	0.43	(0.01, 2.40)	260	0.32
Unity Hospital	32	2	6.25	1.24	4.68	(0.53,16.88)	27	2.19
Singh V	1182	4	0.34	0.52	0.60	(0.16, 1.54)	1160	0.47
Lenox Hill Hospital	86	1	1.16	0.41	2.63	(0.03,14.63)	85	1.56
NYP-Columbia Presby.	1096	3	0.27	0.53	0.48	(0.10, 1.40)	1075	0.35

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
Slater J	471	5	1.06	0.78	1.26	(0.40, 2.93)	423	1.08
Bellevue Hospital Ctr	25	0	0.00	1.63	0.00	(0.00, 8.34)	11	0.00
Lenox Hill Hospital	7	0	0.00	0.30	0.00	(0.00,100.0)	7	0.00
Mount Sinai St. Lukes	10	0	0.00	0.27	0.00	(0.00,100.0)	10	0.00
NYU Hospitals Center	429	5	1.17	0.75	1.43	(0.46, 3.34)	395	1.15
Slotwiner A	223	3	1.35	2.20	0.57	(0.11, 1.66)	188	0.56
NY Methodist Hospital	4	0	0.00	0.69	0.00	(0.00,100.0)	4	0.00
NYP-Weill Cornell	219	3	1.37	2.23	0.57	(0.11, 1.67)	184	0.56
Soffer D	217	0	0.00	0.49	0.00	(0.00, 3.22)	200	0.00
Jamaica Hosp Med Ctr	11	0	0.00	1.05	0.00	(0.00,29.51)	.	.
Lenox Hill Hospital	157	0	0.00	0.50	0.00	(0.00, 4.36)	152	0.00
Mount Sinai Hospital	49	0	0.00	0.33	0.00	(0.00,21.07)	48	0.00
Srinivas V	435	8	1.84	1.38	1.24	(0.53, 2.44)	352	0.98
Montefiore - Moses	1	0	0.00	0.51	0.00	(0.00,100.0)	1	0.00
Montefiore - Weiler	433	8	1.85	1.38	1.24	(0.53, 2.45)	351	0.98
St. Barnabas Hospital	1	0	0.00	1.23	0.00	(0.00,100.0)	.	.
Srivastava S	71	1	1.41	0.32	4.14	(0.05,23.03)	71	2.77
NY Methodist Hospital	7	1	14.29	0.41	32.15	(0.42,100.0)	7	23.21
NYU Hospitals Center	52	0	0.00	0.21	0.00	(0.00,30.85)	52	0.00
Univ. Brooklyn @ LICH	12	0	0.00	0.71	0.00	(0.00,40.03)	12	0.00
Staniloae C	141	1	0.71	0.68	0.96	(0.01, 5.34)	124	1.06
Bellevue Hospital Ctr	31	1	3.23	0.94	3.19	(0.04,17.76)	19	6.19
NYU Hospitals Center	110	0	0.00	0.61	0.00	(0.00, 5.04)	105	0.00
Stathopoulos I	176	1	0.57	0.67	0.78	(0.01, 4.35)	173	0.54
Lenox Hill Hospital	109	1	0.92	0.78	1.09	(0.01, 6.04)	107	0.80
NYP-Columbia Presby.	67	0	0.00	0.50	0.00	(0.00,10.20)	66	0.00
Stefek P	179	0	0.00	1.11	0.00	(0.00, 1.71)	118	0.00
Cayuga Med Ctr Ithaca	165	0	0.00	1.18	0.00	(0.00, 1.74)	104	0.00
Rochester General Hosp	14	0	0.00	0.24	0.00	(0.00,100.0)	14	0.00
Strizik B	345	2	0.58	1.04	0.52	(0.06, 1.87)	286	0.49
Huntington Hospital	96	0	0.00	1.06	0.00	(0.00, 3.35)	57	0.00
Long Island Jewish MC	7	0	0.00	0.78	0.00	(0.00,61.87)	7	0.00
North Shore Univ Hosp	242	2	0.83	1.04	0.74	(0.08, 2.66)	222	0.59
Stuver T	1194	12	1.01	0.91	1.03	(0.53, 1.79)	881	0.33
Rochester General Hosp	1193	12	1.01	0.91	1.03	(0.53, 1.80)	881	0.33
Unity Hospital	1	0	0.00	3.30	0.00	(0.00,100.0)	.	.
Sullivan P	81	1	1.23	0.66	1.74	(0.02, 9.66)	56	0.00
Buffalo General Hosp	59	1	1.69	0.70	2.24	(0.03,12.46)	43	0.00
Mercy Hospital	20	0	0.00	0.56	0.00	(0.00,30.31)	12	0.00
Millard Fillmore Hosp	2	0	0.00	0.39	0.00	(0.00,100.0)	1	0.00
Tsiamtsiouris T	416	5	1.20	1.35	0.82	(0.27, 1.92)	356	0.62
St. Catherine of Siena	11	0	0.00	2.01	0.00	(0.00,15.35)	.	.
St. Francis Hospital	405	5	1.23	1.34	0.86	(0.28, 2.00)	356	0.62
Varma P	321	6	1.87	1.17	1.48	(0.54, 3.22)	271	1.16
Faxton - St. Lukes	21	1	4.76	0.99	4.48	(0.06,24.91)	18	3.46
St. Elizabeth Med Ctr	300	5	1.67	1.18	1.30	(0.42, 3.04)	253	0.95
Vidyarathi V	11	0	0.00	0.34	0.00	(0.00,91.05)	11	0.00
NY Methodist Hospital	6	0	0.00	0.48	0.00	(0.00,100.0)	6	0.00
North Shore Univ Hosp	1	0	0.00	0.16	0.00	(0.00,100.0)	1	0.00
St. Francis Hospital	4	0	0.00	0.17	0.00	(0.00,100.0)	4	0.00

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
Visco J	422	2	0.47	0.31	1.43	(0.16, 5.17)	407	1.13
Buffalo General Hosp	421	2	0.48	0.31	1.44	(0.16, 5.21)	407	1.13
Millard Fillmore Hosp	1	0	0.00	0.91	0.00	(0.00,100.0)	.	.
Weinberger J	34	0	0.00	0.29	0.00	(0.00,34.56)	34	0.00
NYP-Columbia Presby.	29	0	0.00	0.31	0.00	(0.00,37.94)	29	0.00
NYU Hospitals Center	5	0	0.00	0.18	0.00	(0.00,100.0)	5	0.00
Weinstein J	636	4	0.63	0.94	0.62	(0.17, 1.58)	563	0.57
St. Catherine of Siena	82	0	0.00	0.82	0.00	(0.00, 5.06)	53	0.00
Univ. Hosp-Stony Brook	554	4	0.72	0.96	0.70	(0.19, 1.78)	510	0.60
Wilentz J	252	0	0.00	0.61	0.00	(0.00, 2.22)	236	0.00
Lenox Hill Hospital	171	0	0.00	0.76	0.00	(0.00, 2.63)	155	0.00
Mount Sinai Beth Israel	1	0	0.00	0.30	0.00	(0.00,100.0)	1	0.00
NYP-Weill Cornell	80	0	0.00	0.30	0.00	(0.00,14.38)	80	0.00
Witkes D	207	0	0.00	0.54	0.00	(0.00, 3.07)	199	0.00
North Shore Univ Hosp	125	0	0.00	0.50	0.00	(0.00, 5.41)	120	0.00
Winthrop Univ. Hosp	82	0	0.00	0.59	0.00	(0.00, 7.07)	79	0.00
Yadav S	289	3	1.04	0.30	3.22	(0.65, 9.41)	287	2.10
Long Island Jewish MC	28	0	0.00	0.28	0.00	(0.00,43.46)	27	0.00
Mount Sinai Hospital	28	0	0.00	0.20	0.00	(0.00,59.44)	28	0.00
NY Methodist Hospital	229	2	0.87	0.27	2.96	(0.33,10.68)	228	1.92
St. Francis Hospital	4	1	25.00	2.55	9.09	(0.12,50.58)	4	5.58
Yang Y	251	1	0.40	0.52	0.71	(0.01, 3.96)	234	0.61
Jamaica Hosp Med Ctr	13	0	0.00	1.76	0.00	(0.00,14.86)	.	.
Lenox Hill Hospital	200	1	0.50	0.47	0.99	(0.01, 5.53)	196	0.74
NYP-Weill Cornell	38	0	0.00	0.37	0.00	(0.00,24.49)	38	0.00
Yatskar L	452	5	1.11	1.35	0.76	(0.24, 1.77)	359	0.32
Bellevue Hospital Ctr	113	0	0.00	1.13	0.00	(0.00, 2.67)	96	0.00
Elmhurst Hospital Ctr	254	5	1.97	1.74	1.05	(0.34, 2.45)	184	0.60
NYU Hospitals Center	85	0	0.00	0.48	0.00	(0.00, 8.34)	79	0.00
Zisfein J	425	2	0.47	0.93	0.47	(0.05, 1.69)	377	0.23
South Nassau Com. Hosp	370	1	0.27	0.83	0.30	(0.00, 1.69)	323	0.00
St. Francis Hospital	52	1	1.92	1.68	1.06	(0.01, 5.92)	51	0.85
Winthrop Univ. Hosp	3	0	0.00	0.91	0.00	(0.00,100.0)	3	0.00

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

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

CRITERIA USED IN REPORTING SIGNIFICANT RISK FACTORS (2012)

Based on Documentation in Medical Record

Patient Risk Factor	Definitions
Demographic	
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>
Body Mass Index	<p>Body Mass Index (BMI) is a measure of body fat that is the ratio of the weight of the body in kilograms to the square of its height in meters and is considered an indication of nutritional status of the body.</p> <p>The formula for BMI is: $BMI = \text{Weight} / \text{Height}^2$ where Height is height in centimeters (cm) and Weight is weight in grams (g).</p>
Hemodynamic State	
Unstable	<p>Determined just prior to the intervention.</p> <p>Patient requires pharmacologic or mechanical support to maintain blood pressure or cardiac output.</p>
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	
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. 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>
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. 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>

Comorbidities, continued

Chronic Lung Disease	The patient has chronic lung disease with pre-operative findings of one of the following: <ul style="list-style-type: none">• FEV₁ < 75% of predicted• Chronic inhaled or oral bronchodilators or steroid therapy• Room Air pO₂ < 60 or Room Air pCO₂ > 50.
Diabetes	The patient has a history of diabetes diagnosed and/or treated by a physician.
Malignant Ventricular Arrhythmia	Recent (within the past 14 days) sustained ventricular tachycardia requiring electrical defibrillation or conversion with intravenous antiarrhythmic agents or ventricular fibrillation requiring electrical defibrillation. Excludes V-Tach or V-Fib occurring within 6 hours of the diagnosis of a myocardial infarction and responding well to treatment.
Peripheral Vascular Disease	Angiographic demonstration of at least 50% 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.

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.

2012 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 or 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 or 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.

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 thrombectomy 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

2012 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 2012 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 “Chronic Lung Disease” is 2.032. This means that a patient with Chronic Lung Disease is approximately 2.032 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 Chronic Lung Disease who has the same other significant risk factors. The risk factors Unstable, Left Main Disease and One or More Previous PCIS 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 55 is more likely to die in the hospital or after discharge but within 30 days than another patient who is one year younger, all other significant risk factors being the same. Thus, a patient undergoing PCI who is 58 years old has approximately 1.061 times the chance of dying in the hospital or within 30 days that a 57 year-old patient has, all other risk factors being the same. All patients aged 55 years or younger have roughly the same odds of dying in the hospital or after discharge but within 30 days, if their other risk factors are identical.

Body Mass Index (BMI) is a relationship of weight to height. It is a measure of body fat that is the ratio of the weight of the body in kilograms to the square of its height in meters and is considered an indication of nutritional status of the body. This model contains four levels representing various categories of BMI. There reference category is BMI between 25 and 35 kg/m².

Ejection Fraction, which is the percentage of blood in the heart’s left ventricle that is expelled when it contracts (with more denoting a healthier heart), is subdivided into four ranges (less than 20 percent, 20 percent to 29 percent, 30 percent to 39 percent, and 40 percent or more). The last range is referred to as the reference category. This means that the odds ratio that appears for the other Ejection Fraction categories in the table is relative to patients with an ejection fraction of 40 percent or more. Thus, a PCI patient with an ejection fraction of less than 20 percent is about 5.241 times as likely to die in the hospital or within 30 days as a patient with an ejection fraction of 40 percent or higher, all other significant risk factors being the same.

Previous MI is subdivided into 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 fourteen days prior; and no MI within fourteen days prior to the procedure). The last range is referred to as the reference category. The odds ratio for the Previous MI ranges are relative to patients who have not had an MI within fourteen days prior to PCI.

Congestive Heart Failure is divided into three groups (patients with CHF in the past two weeks, patients with CHF within six months 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.

Renal Failure is subdivided into five groups. Three 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, 2012 (All Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: number of years greater than 55	—	0.0588	<.0001	1.061
Body Mass Index (BMI)	—			—
25 to < 35 kg/m ²	62.60	— Reference —		1.000
< 18.5 kg/m ²	0.84	0.7453	0.0124	2.107
18.5 to < 25 kg/m ²	20.87	0.4332	<.0001	1.542
> 35 and higher kg/m ²	15.69	0.3649	0.0172	1.440
Hemodynamic State				
Unstable	0.56	1.7802	<.0001	5.931
Ventricular Function				
Ejection Fraction				
Ejection Fraction 40% or greater	87.7	— Reference —		1.000
Ejection Fraction less than 20%	0.82	1.6565	<.0001	5.241
Ejection Fraction 20-29%	3.91	1.3470	<.0001	3.846
Ejection Fraction 30-39%	7.57	0.6533	<.0001	1.922
Pre-Procedural MI				
No MI within 14 days	66.67	— Reference —		1.000
MI with ST Elevation				
MI < 6 hrs	10.05	1.9406	<.0001	6.963
MI 6-11 hrs	1.72	2.0309	<.0001	7.621
MI 12 – 23 hrs	0.95	1.5499	<.0001	4.711
MI without ST Elevation				
MI < 6 hrs	0.81	1.0735	0.0209	2.926
MI 6-11 hrs	1.21	1.8403	<.0001	6.298
MI 12 – 23 hrs	2.73	0.7907	0.0147	2.205
MI with or without ST Elevation				
MI 1-14 days	15.86	1.1462	<.0001	3.146
Comorbidities				
Congestive Heart Failure (CHF)				
No CHF within 6 months	90.55	— Reference —		1.000
CHF, Current (within 2 weeks)	5.91	0.5736	<.0001	1.775
CHF, Past but not current (2 wks - 6 mon)	3.54	0.4268	0.0356	1.532
Chronic Lung Disease	5.81	0.7089	<.0001	2.032
Renal Failure				
No Renal Failure	90.14	— Reference —		1.000
Renal Failure, Creatinine 1.6 – 2.0 mg/dl	5.07	0.6910	<.0001	1.996
Renal Failure, Creatinine 2.1 – 2.5 mg/dl	1.11	0.7362	0.0057	2.088
Renal Failure, Creatinine > 2.5 mg/dl	0.97	1.0925	<.0001	2.982
Renal Failure, Requiring Dialysis	2.71	1.4138	<.0001	4.112
Vessels Diseased				
Left Main Disease	4.17	0.6085	0.0001	1.838
Previous Procedures				
One or More Previous PCIs	44.04	-0.4753	<.0001	0.622

Intercept = -7.0198

C Statistic = 0.868

Appendix 2

2012 Risk Factors For In-Hospital/30-Day Mortality For Non-Emergency PCI

Appendix 2 contains the significant pre-procedural risk factors for 2012 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 Congestive Heart Failure and Left Main Disease 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 is only one category for Previous MI, one to fourteen days prior to PCI.

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 Ejection Fraction, but the explanation is otherwise the same as presented in Appendix 1. Likewise, Renal Failure is interpreted in the same way as Appendix 1, although there are only four categories in this model.

The Sum of Risk Factors Squared term is merely the square of the number of risk factors in Appendix 2 that a patient has (not counting age), and is used to improve the ability of the model to predict mortality.

Appendix 2

Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2012 (Non-Emergency Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: number of years greater than 65	—	0.0548	<.0001	1.056
Ventricular Function				
Ejection Fraction				
Ejection Fraction 40% or greater	89.95	— Reference —		1.000
Ejection Fraction less than 30%	4.04	1.3773	<.0001	3.964
Ejection Fraction 30-39%	6.01	0.9393	<.0001	2.558
Pre-Procedural MI				
MI 1-14 days	19.13	1.4359	<.0001	4.203
Comorbidities				
Congestive Heart Failure (CHF)				
No CHF within 6 months	89.94	— Reference —		1.000
CHF, Current (within 2 weeks)	6.11	1.2244	<.0001	3.402
CHF, Past but not current (2 wks - 6 mon)	3.95	0.7978	0.0032	2.221
Chronic Lung Disease	6.10	1.2623	<.0001	3.534
Renal Failure				
No Renal Failure	89.64	— Reference —		1.000
Renal Failure, Creatinine 1.6 – 2.0 mg/dl	5.25	0.7894	0.0021	2.202
Renal Failure, Creatinine > 2.0 mg/dl	2.05	0.9383	0.0044	2.556
Renal Failure, Requiring Dialysis	3.06	1.6477	<.0001	5.195
Vessels Diseased				
Left Main Disease	4.44	0.8834	0.0008	2.419
Sum of Risk Factors Squared	—	-0.0695	0.0454	—

Intercept = -6.6954

C Statistic = 0.829

Appendix 3

2012 Risk Factors For 30-Day Readmission For PCI

The significant pre-procedural risk factors for 30-day readmissions following PCI in 2012 are presented in the table that follows. The interpretation for many of the variables in this model was described in Appendix 1 or 2. This includes Body Mass Index, Ejection Fraction, Pre-Procedural MI, Chronic Lung Disease, Congestive Heart Failure, Renal Failure, and Left Main Disease.

The interpretation for Female Gender, Cerebrovascular Disease, Diabetes, Peripheral Vascular Disease, Malignant Ventricular Arrhythmia and Two or Three Vessels Diseased is similar for that described for Chronic Lung

Disease in Appendix 1.

Age has a more complicated relationship with readmission rate, and is represented by both a linear and a quadratic (squared) term. This represents the fact that as patients age, their risk of 30-day readmission increases at an increasing rate. This functional form is used to improve the model's ability to predict readmissions, but it means that the odds ratios for these terms do not have a straightforward interpretation. Therefore these odds ratios are not contained in the table.

Appendix 3

2012 Risk Factors for 30-Day Readmissions for All PCI

Patient Risk Factors	Prevalence (%)	Coefficient	P-Value	Odds Ratio
Demographic				
Age	—	-0.0418	0.0002	—
Age - squared	—	0.0377	<.0001	—
Female	30.58	0.2719	<.0001	1.312
Body Mass Index kg/m ²				
≥ 25.0 kg/m ²	78.51	— Reference —		1.000
< 18.5 kg/m ²	0.16	0.9647	0.0005	2.624
≥ 18.5 and < 25.0 kg/m ²	21.33	0.0990	0.0087	1.104
Ventricular Function				
Ejection Fraction				
Ejection Fraction 50% or greater	71.98	— Reference —		1.00
Ejection Fraction less than 20%	0.78	0.5672	<.0001	1.763
Ejection Fraction 20-29%	3.78	0.3035	<.0001	1.355
Ejection Fraction 30-39%	7.47	0.2560	<.0001	1.292
Ejection Fraction 40-49%	15.98	0.0961	0.0277	1.101
Pre-Procedural MI				
No MI within 14 days	65.89	— Reference —		1.000
MI with ST Elevation				
MI within 24 hours	12.99	0.3564	<.0001	1.428
MI without ST Elevation				
MI within 24 hours	4.90	0.1811	0.0143	1.199
MI with or without ST Elevation				
MI 1-20 days	16.22	0.3044	<.0001	1.356
Comorbidities				
Cerebrovascular Disease	10.12	0.3219	<.0001	1.380
Chronic Lung Disease	5.84	0.5184	<.0001	1.679
Congestive Heart Failure (CHF)				
No CHF within 6 months	90.60	— Reference —		1.000
CHF, Current (within 2 weeks)	5.86	0.4377	<.0001	1.549
CHF, Past but not Current (6 mon – 2 wks)	3.54	0.3663	<.0001	1.442
Diabetes	35.59	0.2175	<.0001	1.243
Peripheral Vascular Disease	9.06	0.3358	<.0001	1.399
Malignant Ventricular Arrhythmia	0.70	0.3859	0.0107	1.471
Renal Failure				
No Renal Failure	70.56	— Reference —		1.000
Creatinine 1.2 - 1.5 mg/dL	19.71	0.1155	0.0047	1.122
Creatinine 1.6 - 2.0 mg/dL	4.97	0.3232	<.0001	1.382
Creatinine 2.1 - 3.0 mg/dL	1.50	0.3471	0.0013	1.415
Creatinine > 3.0 mg/dL	0.53	0.8073	<.0001	2.242
Renal Failure Requiring Dialysis	2.71	1.1236	<.0001	3.076
Coronary Arteries Diseased				
Left Main Disease	3.98	0.2111	0.0026	1.235
Two or Three Vessel Diseased	45.70	0.1432	<.0001	1.154

Intercept = -1.7276

C Statistic = 0.657

Appendix 4

2010-2012 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 2010-2012 time period are presented in the table that follows. The interpretation of this table is similar to the interpretation of Appendices 1, 2 and 3 that are described previously. All variables except Body Surface Area, Number of Vessels Diseased, and Previous Organ Transplant are interpreted as described previously.

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.

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.

Previous Organ Transplant is interpreted in the same way as Chronic Lung Disease in Appendix 1.

Appendix 4

Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2012 (All Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age	—	0.00130	0.9523	—
Age-Squared	—	0.0333	0.0341	—
Body Surface Area	—	-2.8278	<.0001	—
Body Surface Area - Squared	—	0.6029	<.0001	—
Hemodynamic State				
Unstable	0.50	1.7151	<.0001	5.557
Ventricular Function				
Ejection Fraction				
Ejection Fraction 50% or greater	73.24	— Reference —		1.000
Ejection Fraction less than 20%	0.77	1.5284	<.0001	4.611
Ejection Fraction 20-29%	3.72	1.0385	<.0001	2.825
Ejection Fraction 30-39%	7.16	0.5343	<.0001	1.706
Ejection Fraction 40-49%	15.11	0.2870	0.0002	1.332
Pre-Procedural MI				
No MI within 20 days	70.45	— Reference —		1.000
MI with ST Elevation				
MI < 6 hrs (st1)	8.74	1.9756	<.0001	7.211
MI 6-11 hrs (st3)	1.62	2.0078	<.0001	7.447
MI 12 – 23 hrs (st5)	0.94	2.2289	<.0001	9.290
MI without ST Elevation				
MI < 6 hrs (st2)	0.73	1.3852	<.0001	3.996
MI 6-11 hrs (st4)	1.03	1.4399	<.0001	4.220
MI 12 – 23 hrs (st6)	2.11	1.0135	<.0001	2.755
MI with or without ST Elevation				
MI 1-14 days	13.99	1.0457	<.0001	2.845
MI 15-20 days	0.39	0.7503	0.0222	2.118
Comorbidities				
Congestive Heart Failure (CHF)				
No CHF within 6 months	91.20	— Reference —		1.000
CHF, Current (within 2 weeks)	5.58	0.8034	<.0001	2.233
CHF, Past but not current (2 wks - 6 mon)	3.22	0.4606	0.0002	1.585
Chronic Lung Disease	6.31	0.5757	<.0001	1.778
Malignant Ventricular Arrhythmia	0.65	0.7463	<.0001	2.109
Peripheral Vascular Disease	9.08	0.2055	0.0092	1.228
Renal Failure				
No Renal Failure	90.05	— Reference —		1.000
Renal Failure, Creatinine 1.6 – 2.0 mg/dl	5.30	0.6092	<.0001	1.839
Renal Failure, Creatinine 2.1 – 2.5 mg/dl	1.19	0.8360	<.0001	2.307
Renal Failure, Creatinine > 2.5 mg/dl	0.98	0.9987	<.0001	2.715
Renal Failure, Requiring Dialysis	2.48	1.3992	<.0001	4.052
Vessels Diseased				
Number of Vessels Diseased				
Fewer than Two Vessels Diseased	54.47	— Reference —		1.000
Two Vessels Diseased	32.04	0.2254	0.0004	1.253
Three Vessels Diseased	13.49	0.3521	<.0001	1.422
Left Main Disease	4.00	0.4423	<.0001	1.556
Previous Procedures				
One or More Previous PCIs	44.27	-0.3112	<.0001	0.733
Previous Organ Transplant	0.51	0.7540	0.0032	2.125

Intercept = -4.7035

C Statistic = 0.862

Appendix 5

2010-2012 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 2010-2012 time period are presented in the Appendix 5 table below. The interpretation for this appendix is similar to the interpretation of Appendices 1-5 described previously.

Appendix 5

Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2010-2012 (Non-Emergency Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age	—	-0.0573	0.0487	—
Age-squared	—	0.0678	0.0012	—
Body Surface Area	—	-2.8576	<.0001	—
Body Surface Area - squared	—	0.5686	0.0004	—
Ventricular Function				
Ejection Fraction				
Ejection Fraction 50% or greater	77.39	— Reference —	—	1.000
Ejection Fraction less than 30%	3.89	1.3837	<.0001	3.990
Ejection Fraction 30-49%	18.72	1.0604	<.0001	2.887
Pre-Procedural MI				
MI 1-14 days	16.43	1.5068	<.0001	4.512
Comorbidities				
Congestive Heart Failure (CHF)				
No CHF within 6 months	90.72	— Reference —	—	1.000
CHF, Current (within 2 weeks)	5.73	1.4757	<.0001	4.374
CHF, Past but not current (2 wks - 6 mon)	3.55	1.0316	<.0001	2.805
Chronic Lung Disease	6.65	1.2534	<.0001	3.502
Malignant Ventricular Arrhythmia	0.43	1.6642	<.0001	5.281
Renal Failure				
No Renal Failure	89.63	— Reference —	—	1.000
Renal Failure, Creatinine 1.6 – 2.0 mg/dl	5.44	1.0931	<.0001	2.984
Renal Failure, Creatinine > 2.0 mg/dl	2.19	1.3371	<.0001	3.808
Renal Failure, Requiring Dialysis	2.74	1.8414	<.0001	6.305
Vessels Diseased				
Number of Vessels Diseased				
Fewer than Two Vessels Diseased	54.34	— Reference —	—	1.000
Two Vessels Diseased	32.25	0.6713	<.0001	1.957
Three Vessels Diseased	13.41	0.7713	<.0001	2.163
Previous Procedures				
Previous Organ Transplant	0.54	1.5146	<.0001	4.547
Sum of Risk Factors Squared	—	-0.0904	<.0001	—

Intercept = -2.7028

C Statistic = 0.833

Appendix 6

2010-2012 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 2010-2012 time period are presented in the Appendix 6 table below. The interpretation of this table is similar to the interpretation of Appendices 1-5.

Appendix 6

Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2010-2012 (Emergency Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: Number of years greater than 50	—	0.0629	<.0001	1.065
Body Mass Index				
18.5 – 40 kg/m ²	94.06	— Reference —		1.000
< 18.5 kg/m ²	0.97	1.2439	<.0001	3.469
> 40 kg/m ²	4.97	0.8997	0.0002	2.459
Ventricular Function				
Ejection Fraction				
Ejection Fraction 40% or greater	78.03	— Reference —		1.000
Ejection Fraction less than 20%	1.36	2.3261	<.0001	10.238
Ejection Fraction 20 – 29%	6.44	1.5477	<.0001	4.701
Ejection Fraction 30 – 39%	14.17	0.7480	<.0001	2.113
Pre-Procedural MI				
ST Elevation with 24 hrs	73.99	1.2263	<.0001	3.408
Hemodynamic State				
Unstable	3.25	2.1037	<.0001	8.196
Comorbidities				
Congestive Heart Failure (CHF) within 2 weeks	4.76	1.2415	<.0001	3.461
Malignant Ventricular Arrhythmia	1.86	1.2219	<.0001	3.394
Renal Failure				
No Renal Failure	71.0	— Reference —		1.000
Renal Failure, Creatinine 1.2 – 1.5 mg/dl	21.07	0.6424	<.0001	1.901
Renal Failure, Creatinine 1.6 – 2.0 mg/dl	4.53	1.1035	<.0001	3.015
Renal Failure, Creatinine 2.1 – 2.5 mg/dl	1.06	1.4729	<.0001	4.362
Renal Failure, Creatinine 2.6 – 3.0 mg/dl	0.42	1.5557	<.0001	4.738
Renal Failure, Creatinine > 3.0 mg/dl	0.57	1.7703	<.0001	5.872
Renal Failure, Requiring Dialysis	1.05	1.8446	<.0001	6.326
Vessels Diseased				
Three Vessels Diseased	13.97	0.7830	<.0001	2.188
Left Main Disease	2.74	1.2351	<.0001	3.439
Sum of Risk Factors Squared	—	-0.0837	0.0006	—

Intercept = -6.5750

C Statistic = 0.847

NEW YORK STATE PERCUTANEOUS CORONARY INTERVENTION CENTERS

Albany Medical Center
New Scotland Avenue
Albany, New York 12208

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

Bassett Medical Center
Atwell Road
Cooperstown, New York 13326

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

Bronx-Lebanon Hospital Center*
1650 Grand Concourse
Bronx, New York 10456

Brookdale University Hospital
and Medical Center
Linden Boulevard @ Brookdale Plaza
Brooklyn, New York 11212

Brookhaven Memorial Hospital Medical Center***
101 Hospital Road
Patchogue, New York 11772

Buffalo General Medical Center
100 High Street
Buffalo, New York 14203

Cayuga Medical Center at Ithaca*
101 Dates Drive
Ithaca, New York 14850

Champlain Valley Physicians Hospital*
75 Beekman Street
Plattsburgh, New York 12901

Crouse Hospital
736 Irving Avenue
Syracuse, New York 132

Ellis Hospital
1101 Nott Street
Schenectady, New York 12308

Elmhurst Hospital Center*
79-01 Broadway
Elmhurst, New York 11373

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

Faxton-St. Luke's Healthcare
(St. Luke's Division) **
Box 479
Utica, New York 13503

Glens Falls Hospital*
100 Park Street
Glens Falls, New York 12801

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

Good Samaritan Hospital of Suffern
255 Lafayette Avenue
Suffern, New York 10901

Huntington Hospital*
270 Park Avenue
Huntington, New York 11743

Jamaica Hospital Medical Center*
89th Avenue and Van Wyck Expressway
Jamaica, New York 11418

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

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

Lutheran Medical Center*
150 55th Street
Brooklyn, New York 11220

Maimonides Medical Center
4802 Tenth Avenue
Brooklyn, New York 11219

Mercy Hospital of Buffalo
565 Abbott Road
Buffalo, New York 14220

Millard Fillmore Hospital **
3 Gates Circle
Buffalo, New York 14209

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

Montefiore Medical Center @ Jack D. Weiler
Hospital of A. Einstein College
1825 Eastchester Road
Bronx, New York 10461

Mount Sinai Beth Israel
10 Nathan D. Perlman Place
New York, New York 10003

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

Mount Sinai St. Luke's
11-11 Amsterdam Avenue at 114th Street
New York, New York 10025

NY Presbyterian – Queens
56-45 Main Street
Flushing, New York 11355

New York Methodist Hospital
506 Sixth Street
Brooklyn, New York 11215

NY Presbyterian Hospital @ Columbia
Presbyterian Center
161 Fort Washington Avenue
New York, New York 10032

NY Presbyterian @ Lawrence Hospital
55 Palmer Avenue
Bronxville, New York 10708

NY Presbyterian Hospital @ New York Weill –
Cornell College
525 East 68th Street
New York, New York 10021

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

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

Olean General Hospital***
515 Main Street
Olean, New York 14760

Orange Regional Medical Center*
707 East Main Street
Middletown, New York 10940

Richmond University Medical Center
355 Bard Avenue
Staten Island, New York 10310

Rochester General Hospital
1425 Portland Avenue
Rochester, New York 14621

Samaritan Hospital***
2215 Burdett Avenue
Troy, NY 12180

Saratoga Hospital
211 Church Street
Saratoga Springs, New York 12866

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

Southside Hospital
301 East Main Street
Bayshore, New York 11706

St. Barnabas Hospital*
4422 3rd Avenue
Bronx, New York 10457

St. Catherine of Siena Medical Center*
50 Route 25A
Smithtown, New York 11787

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

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

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

St. Luke's Cornwall Hospital*
70 Dubois Street
Newburgh, New York 12550

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

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

Strong Memorial Hospital
601 Elmwood Avenue
Rochester, New York 14642

SUNY Downstate Medical Center at Long Island
College Hospital**
340 Henry Street
Brooklyn, New York 11201

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

UHS Wilson Medical Center
33-57 Harrison Street
Johnson City, New York 13790

The Unity Hospital of Rochester*
1555 Long Pond Road
Rochester, New York 14626

University Hospital at Stony Brook
Stony Brook, New York 11794-8410

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

Upstate University Hospital –
State University of New York
750 East Adams Street
Syracuse, New York 13210

Vassar Brothers Medical Center
45 Reade Place
Poughkeepsie, New York 12601

Westchester Medical Center
Grasslands Road
Valhalla, New York 10595

White Plains Hospital*
41 East Post Road
White Plains, NY 10601

Winthrop University Hospital
259 First Street
Mineola, New York 11501

* Hospital performs PCI without cardiac surgery on-site

** Hospital Closed or No Longer Performs PCI

†† Hospital started PCI after 2012

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