

**PERCUTANEOUS  
CORONARY  
INTERVENTIONS  
(PCI)**

in New York State

2011-2013

September 2016



**Department  
of Health**



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# Message from Commissioner Zucker

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July 2016

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 2013. 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

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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 146,421 patients who underwent PCI in NYS hospitals and were discharged between December 1, 2010, and November 30, 2013. The analysis period for this report includes patients discharged in December 2010 but not those discharged in December 2013. 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 2013 cases includes patients discharged from December 1, 2012 through November 30, 2013. 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

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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

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This report is based on data for patients discharged between December 1, 2010, and November 30, 2013, provided by all 61 non-federal hospitals in NYS where PCI was performed. In total there were 146,421 PCI procedures performed during this time period. The annual number of PCI discharges was: 50,530 in 2011; 47,396 in 2012; and 48,495 in 2013. 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 Long Island College Hospital closed in April of 2014, the cardiac data validation process for 2013 cases was incomplete. Because the accuracy of risk factors, procedural information and outcomes for these cases cannot be verified, the 112 cases reported by this hospital with a discharge in December 2012 through 2013 are excluded from all analyses.

In addition, 246 records were excluded from the 2011–2013 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 36 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 652 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 128 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 48. 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 652 cases account for 0.45 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 50.

While there were 47,965 PCI cases included in the mortality analysis for 2013 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 1,958 cases. Another 306 patients were excluded because they died in the same admission as their index PCI, so readmission was impossible. Twenty-five 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 1,917 exclusions. Finally, 10 patients were excluded because they were initially transferred to another acute care facility and their final discharge was after November 30, 2013. These patients could not be followed for 30 days because of the lack of 2014 data at the time of analysis.

In total, the number of exclusions was 4,216, leaving 43,749 cases to be examined for 30-day readmission.

#### **NOTE ON HOSPITALS PERFORMING PCI DURING 2011–2013 PERIOD**

In the 2011-2013 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 2011-2013 time period. The hospital name and the month of the first PCI performed are as follows: St. Barnabas Hospital - June 2011; Samaritan Hospital - January 2012; Olean General Hospital - October 2013.

As previously mentioned, Long Island College Hospital closed in 2014 and data from 2013 is not included in this report due to incomplete validation. In addition, Millard Fillmore hospital closed in 2012 and performed the last PCI in March of that year.

# RISK ADJUSTMENT FOR ASSESSING PROVIDER PERFORMANCE

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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, and the National Death Index.

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 or to have bypass surgery. 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 843 staged PCIs and 32 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 (1.14 percent in-hospital/30-day in 2013) 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 (10.56 percent in 2013).

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

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### 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 (1.14 percent in-hospital/30-day mortality for all PCI patients discharged in 2013).

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 (10.56 percent 30-day readmission rate for all PCI patients discharged in 2013).

**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.

## 2013 HOSPITAL OUTCOMES FOR PCI

Table 1 and Figures 1 and 2 present the PCI mortality results for the 59 hospitals performing PCI in NYS in 2013 for which data could be analyzed. The table contains, for each hospital, the number of PCIs resulting in 2013 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 (82.12 percent in 2013).

The overall in-hospital/30-day OMR for the 47,965 PCIs included in this 2013 analysis was 1.14 percent. Observed mortality rates ranged from 0.00 percent to 3.26 percent. The range in EMRs, which measure patient severity of illness, was between 0.61 percent and 3.64 percent. The RAMRs, which measure hospital performance, range from 0.00 percent to 2.93 percent. Based on confidence intervals for RAMRs, two hospitals (Good Samaritan in Suffern and Unity Hospital in Rochester) had RAMRs that were significantly higher than the statewide average. Three hospitals (Bellevue Hospital Center in Manhattan, Maimonides Medical Center in Brooklyn and Montefiore-Weiler in the Bronx) had RAMRs that were significantly lower than the statewide average.

The last column of Table 1 presents the hospital RAMRs for non-emergency cases (based on the statistical model presented in Appendix 2). As presented in the last row, the statewide in-hospital/30-day mortality rate for non-emergency cases is 0.74 percent. The range of RAMRs was from 0.00 percent to 3.47 percent. One hospital (Unity Hospital in Rochester) had a RAMR that was significantly higher than the statewide average. One hospital (Montefiore-Weiler in the Bronx)

had a RAMR that was significantly lower than the statewide rate.

Figures 1 and 2 provide a visual representation of the data displayed in Table 1. For each hospital, the black dot represents the 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. A gray bar that extends far above and/or below the statewide average indicates that a hospital has a wide confidence interval. This is common when the hospital has a very small number of cases. It does not necessarily mean that the risk-adjusted mortality rate is very high or very low. 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 2013 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 2013 PCI discharges was 0.67 percent for the 47,965 patients included in Table 1. For the non-emergency analysis, there were 38,391 patients with an in-hospital mortality rate of 0.32 percent.

Table 2 presents the PCI 30-day readmission results for the 59 hospitals performing PCI in NYS in 2013 for which data could be analyzed. The table contains, for each hospital, the number of PCIs resulting in 2013 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 43,749 PCIs included in this 2013 analysis was 10.56 percent. Observed readmission rates ranged from 5.21 percent to 22.09 percent. The range in ERRs, which measure patient severity of illness, was between 8.28 percent and 12.93 percent. The RARRs,



which measure hospital performance, range from 6.04 percent to 19.06 percent.

Based on confidence intervals for RARRs, ten hospitals (Bronx-Lebanon Hospital Center, Good Samaritan Hospital Medical Center in West Islip, Long Island Jewish Medical Center in New Hyde Park, Mount Sinai St. Luke's in Manhattan, Southside Hospital in Bayshore, St. Barnabas Hospital in the Bronx, St. Catherine of Siena in Smithtown, Staten Island University Hospital, University Hospital-Brooklyn, and University Hospital-Stony Brook) had RARRs that were significantly higher than the statewide average. Seven hospitals (Champlain

Valley Physicians Hospital in Plattsburgh, Ellis Hospital in Schenectady, Maimonides Medical Center in Brooklyn, Mount Sinai Hospital Center in Manhattan, NYU Hospitals Center in Manhattan, Orange Regional Medical Center in Middletown, and St. Peter's Hospital in Albany) 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, 2013 Discharges**

(Listed Alphabetically by Hospital)

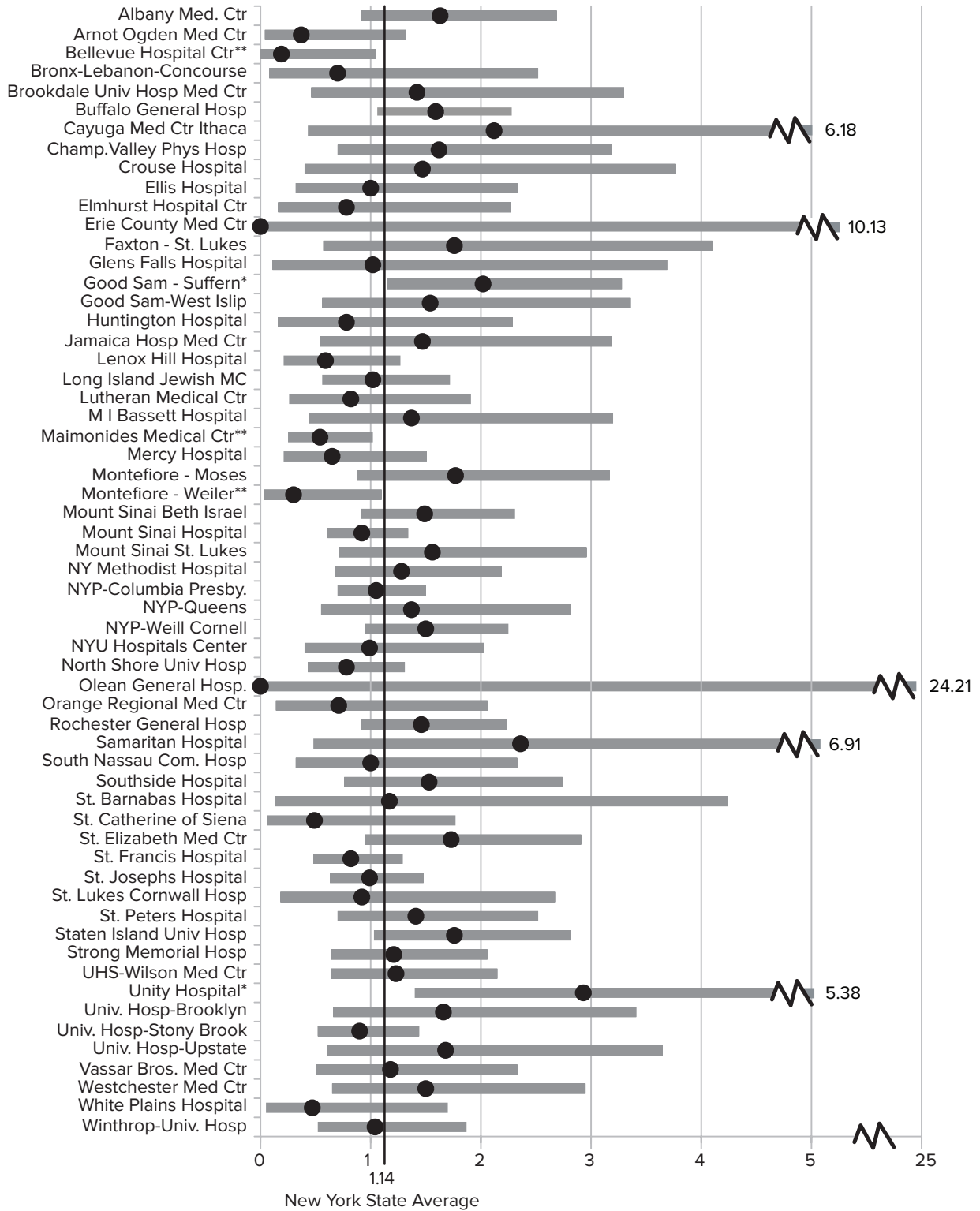
Hospital	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		Cases	RAMR
Albany Med. Ctr	693	15	2.16	1.52	1.63	(0.91, 2.69)	509	1.15
Arnot Ogden Med Ctr	412	2	0.49	1.52	0.37	(0.04, 1.32)	322	0.25
Bellevue Hospital Ctr	364	1	0.27	1.67	0.19 **	(0.00, 1.05)	262	0.25
Bronx-Lebanon-Concourse	90	2	2.22	3.64	0.70	(0.08, 2.52)	22	3.47
Brookdale Univ Hosp Med Ctr	204	5	2.45	1.98	1.42	(0.46, 3.30)	130	0.00
Buffalo General Hosp	1735	29	1.67	1.20	1.59	(1.06, 2.28)	1303	0.91
Cayuga Med Ctr Ithaca	128	3	2.34	1.27	2.12	(0.43, 6.18)	74	2.54
Champ.Valley Phys Hosp	537	8	1.49	1.05	1.62	(0.70, 3.19)	402	0.74
Crouse Hospital	284	4	1.41	1.09	1.47	(0.40, 3.77)	208	0.54
Ellis Hospital	484	5	1.03	1.18	1.00	(0.32, 2.33)	315	0.46
Elmhurst Hospital Ctr	459	3	0.65	0.96	0.78	(0.16, 2.27)	321	0.53
Erie County Med Ctr	29	0	0.00	1.43	0.00	(0.00,10.13)	18	0.00
Faxton - St. Lukes	276	5	1.81	1.18	1.76	(0.57, 4.10)	227	0.73
Glens Falls Hospital	223	2	0.90	1.00	1.02	(0.11, 3.69)	148	1.28
Good Sam - Suffern	594	16	2.69	1.53	2.02 *	(1.15, 3.28)	441	1.42
Good Sam-West Islip	627	6	0.96	0.71	1.54	(0.56, 3.36)	546	0.91
Huntington Hospital	478	3	0.63	0.91	0.78	(0.16, 2.29)	386	0.57
Jamaica Hosp Med Ctr	297	6	2.02	1.57	1.47	(0.54, 3.19)	136	1.81
Lenox Hill Hospital	1552	6	0.39	0.75	0.59	(0.21, 1.27)	1462	0.34
Long Island Jewish MC	1695	14	0.83	0.92	1.02	(0.56, 1.72)	1492	0.78
Lutheran Medical Ctr	270	5	1.85	2.58	0.82	(0.26, 1.91)	201	0.00
M I Bassett Hospital	432	5	1.16	0.96	1.37	(0.44, 3.20)	348	1.12
Maimonides Medical Ctr	1134	9	0.79	1.68	0.54 **	(0.25, 1.02)	889	0.46
Mercy Hospital	931	5	0.54	0.95	0.65	(0.21, 1.51)	700	0.39
Montefiore - Moses	707	11	1.56	1.00	1.77	(0.88, 3.17)	581	0.72
Montefiore - Weiler	527	2	0.38	1.43	0.30 **	(0.03, 1.10)	405	0.00 **
Mount Sinai Beth Israel	1610	20	1.24	0.95	1.49	(0.91, 2.31)	1421	0.97
Mount Sinai Hospital	4522	27	0.60	0.74	0.92	(0.61, 1.34)	4360	0.56
Mount Sinai St. Lukes	427	9	2.11	1.55	1.56	(0.71, 2.96)	351	1.18
NY Methodist Hospital	1404	13	0.93	0.83	1.28	(0.68, 2.19)	1305	1.03
NYP-Columbia Presby.	2541	29	1.14	1.25	1.05	(0.70, 1.50)	2339	0.87
NYP-Queens	597	7	1.17	0.98	1.37	(0.55, 2.82)	435	1.22
NYP-Weill Cornell	1298	23	1.77	1.35	1.50	(0.95, 2.25)	1149	0.97
NYU Hospitals Center	1319	7	0.53	0.61	0.99	(0.40, 2.03)	1268	0.72
North Shore Univ Hosp	1683	14	0.83	1.22	0.78	(0.43, 1.31)	1386	0.54
Olean General Hosp.	25	0	0.00	0.69	0.00	(0.00,24.21)	15	0.00
Orange Regional Med Ctr	512	3	0.59	0.95	0.71	(0.14, 2.06)	393	0.26
Rochester General Hosp	1569	21	1.34	1.04	1.46	(0.91, 2.24)	1263	0.85
Samaritan Hospital	210	3	1.43	0.69	2.36	(0.48, 6.91)	143	1.39
South Nassau Com. Hosp	622	5	0.80	0.92	1.00	(0.32, 2.33)	484	0.91
Southside Hospital	705	11	1.56	1.16	1.53	(0.76, 2.74)	622	1.00
St. Barnabas Hospital	133	2	1.50	1.46	1.17	(0.13, 4.24)	106	0.00
St. Catherine of Siena	301	2	0.66	1.55	0.49	(0.06, 1.77)	226	0.00
St. Elizabeth Med Ctr	634	14	2.21	1.46	1.73	(0.95, 2.91)	503	1.01
St. Francis Hospital	2289	18	0.79	1.10	0.82	(0.48, 1.29)	2115	0.49
St. Josephs Hospital	2073	23	1.11	1.28	0.99	(0.63, 1.48)	1567	0.68
St. Lukes Cornwall Hosp	263	3	1.14	1.42	0.92	(0.18, 2.68)	197	0.38
St. Peters Hospital	707	11	1.56	1.26	1.41	(0.70, 2.52)	544	0.84
Staten Island Univ Hosp	958	17	1.77	1.15	1.76	(1.03, 2.82)	787	0.96
Strong Memorial Hosp	974	13	1.33	1.26	1.21	(0.64, 2.06)	653	1.28
UHS-Wilson Med Ctr	672	12	1.79	1.66	1.23	(0.64, 2.15)	501	0.92
Unity Hospital	307	10	3.26	1.27	2.93 *	(1.40, 5.38)	226	2.42 *
Univ. Hosp-Brooklyn	336	7	2.08	1.44	1.66	(0.66, 3.41)	218	0.37
Univ. Hosp-Stony Brook	1413	17	1.20	1.53	0.90	(0.52, 1.44)	948	0.76
Univ. Hosp-Upstate	287	6	2.09	1.42	1.68	(0.61, 3.65)	193	1.11
Vassar Bros. Med Ctr	643	8	1.24	1.20	1.18	(0.51, 2.33)	433	0.48
Westchester Med Ctr	436	8	1.83	1.40	1.50	(0.65, 2.95)	278	0.67
White Plains Hospital	332	2	0.60	1.46	0.47	(0.05, 1.70)	262	0.34
Winthrop Univ. Hosp	1001	11	1.10	1.20	1.04	(0.52, 1.87)	852	0.85
<b>Statewide Total</b>	<b>47965</b>	<b>548</b>	<b>1.14</b>				<b>39391</b>	<b>0.74</b>

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

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

# Figure 1

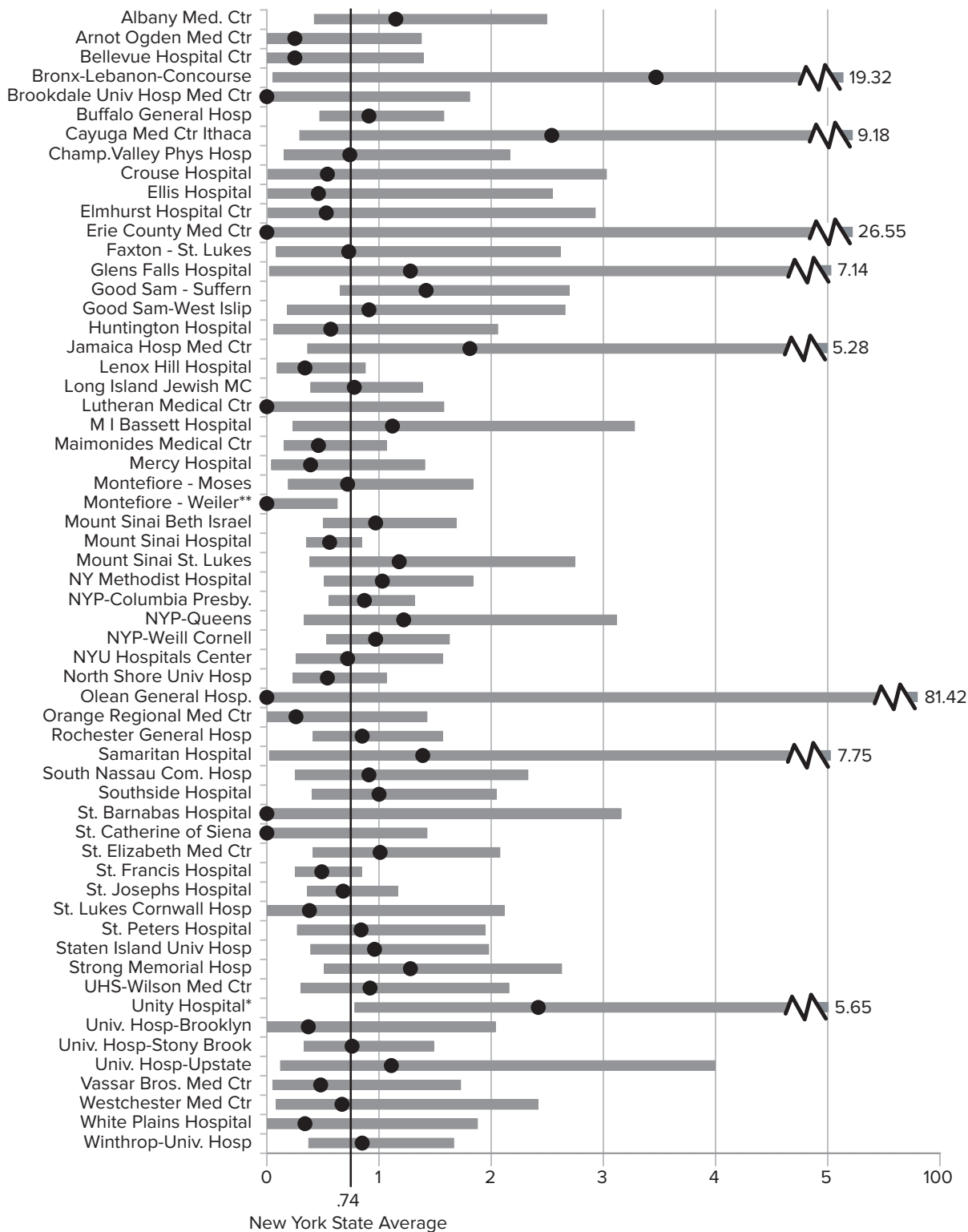
## In-Hospital/30-Day Risk-Adjusted Mortality Rates for PCI in New York State, 2013 Discharges (All Cases)



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.

# Figure 2

## In-Hospital/30-Day Risk-Adjusted Mortality Rates for PCI in New York State, 2013 Discharges (Non-Emergency 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.

**Table 2****Hospital Observed, Expected and Risk-Adjusted Readmission Rates for All PCI in New York State, 2013**

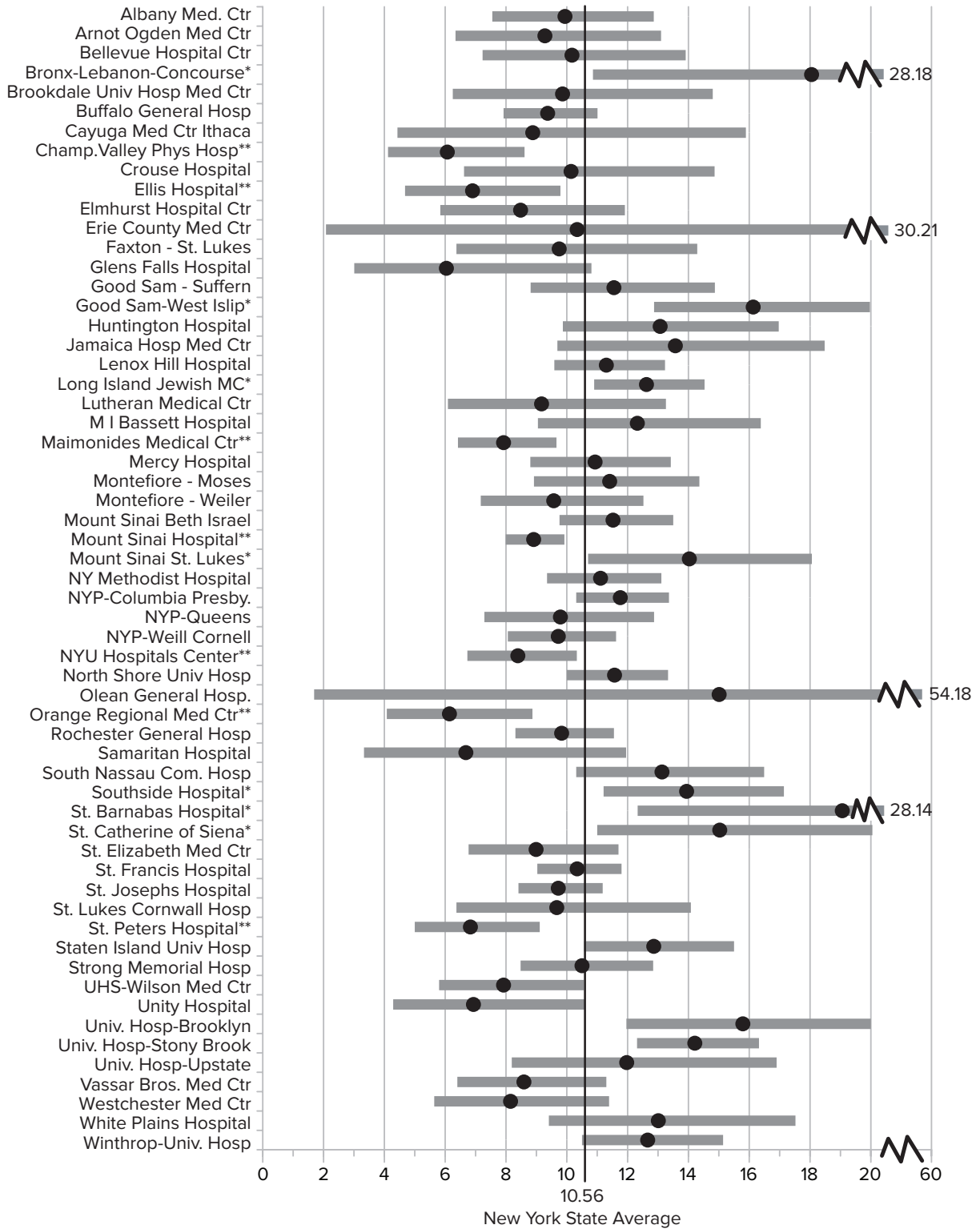
Hospital	Cases	Readmissions	ORR	All Cases		95% CI for RARR
				ERR	RARR	
Albany Med. Ctr	585	58	9.91	10.53	9.94	(7.55,12.86)
Arnot Ogden Med Ctr	354	32	9.04	10.29	9.28	(6.34,13.10)
Bellevue Hospital Ctr	341	39	11.44	11.88	10.17	(7.23,13.91)
Bronx-Lebanon-Concourse	86	19	22.09	12.93	18.05 *	(10.86,28.18)
Brookdale Univ Hosp Med Ctr	194	23	11.86	12.70	9.86	(6.25,14.80)
Buffalo General Hosp	1594	147	9.22	10.40	9.37	(7.92,11.01)
Cayuga Med Ctr Ithaca	127	11	8.66	10.30	8.88	(4.43,15.89)
Champ.Valley Phys Hosp	519	31	5.97	10.40	6.07 **	(4.12, 8.61)
Crouse Hospital	265	26	9.81	10.22	10.14	(6.62,14.86)
Ellis Hospital	469	31	6.61	10.12	6.90 **	(4.68, 9.79)
Elmhurst Hospital Ctr	441	33	7.48	9.32	8.48	(5.84,11.91)
Erie County Med Ctr	29	3	10.34	10.57	10.34	(2.08,30.21)
Faxton - St. Lukes	259	26	10.04	10.87	9.75	(6.37,14.29)
Glens Falls Hospital	211	11	5.21	9.11	6.04	(3.01,10.81)
Good Sam - Suffern	474	60	12.66	11.58	11.55	(8.81,14.87)
Good Sam-West Islip	591	84	14.21	9.31	16.13 *	(12.87,19.97)
Huntington Hospital	445	56	12.58	10.17	13.07	(9.87,16.97)
Jamaica Hosp Med Ctr	276	40	14.49	11.28	13.57	(9.69,18.48)
Lenox Hill Hospital	1424	155	10.88	10.17	11.30	(9.59,13.23)
Long Island Jewish MC	1583	193	12.19	10.21	12.62 *	(10.90,14.53)
Lutheran Medical Ctr	265	28	10.57	12.17	9.17	(6.09,13.26)
M I Bassett Hospital	405	47	11.60	9.95	12.32	(9.05,16.38)
Maimonides Medical Ctr	1082	97	8.96	11.96	7.92 **	(6.42, 9.66)
Mercy Hospital	873	91	10.42	10.08	10.93	(8.80,13.42)
Montefiore - Moses	640	72	11.25	10.42	11.41	(8.92,14.36)
Montefiore - Weiler	509	53	10.41	11.49	9.57	(7.17,12.52)
Mount Sinai Beth Israel	1387	152	10.96	10.05	11.52	(9.76,13.50)
Mount Sinai Hospital	3927	337	8.58	10.17	8.91 **	(7.99, 9.92)
Mount Sinai St. Lukes	379	60	15.83	11.92	14.03 *	(10.70,18.06)
NY Methodist Hospital	1294	140	10.82	10.28	11.11	(9.35,13.11)
NYP-Columbia Presby.	1973	236	11.96	10.74	11.76	(10.31,13.36)
NYP-Queens	562	51	9.07	9.79	9.79	(7.29,12.87)
NYP-Weill Cornell	1118	120	10.73	11.67	9.72	(8.06,11.62)
NYU Hospitals Center	1195	88	7.36	9.28	8.39 **	(6.73,10.33)
North Shore Univ Hosp	1589	193	12.15	11.08	11.57	(10.00,13.33)
Olean General Hosp.	17	2	11.76	8.28	15.01	(1.69,54.18)
Orange Regional Med Ctr	467	28	6.00	10.32	6.14 **	(4.08, 8.87)
Rochester General Hosp	1503	148	9.85	10.58	9.83	(8.31,11.55)
Samaritan Hospital	188	11	5.85	9.25	6.68	(3.33,11.95)
South Nassau Com. Hosp	581	74	12.74	10.24	13.13	(10.31,16.49)
Southside Hospital	640	90	14.06	10.65	13.94 *	(11.21,17.14)
St. Barnabas Hospital	119	25	21.01	11.64	19.06 *	(12.33,28.14)
St. Catherine of Siena	292	46	15.75	11.07	15.03 *	(11.00,20.05)
St. Elizabeth Med Ctr	586	55	9.39	11.03	8.99	(6.77,11.70)
St. Francis Hospital	2143	222	10.36	10.58	10.34	(9.03,11.80)
St. Josephs Hospital	1930	196	10.16	11.03	9.72	(8.41,11.18)
St. Lukes Cornwall Hosp	245	27	11.02	12.03	9.67	(6.37,14.08)
St. Peters Hospital	671	46	6.86	10.60	6.83 **	(5.00, 9.11)
Staten Island Univ Hosp	881	110	12.49	10.26	12.86 *	(10.57,15.50)
Strong Memorial Hosp	940	94	10.00	10.06	10.50	(8.48,12.84)
UHS-Wilson Med Ctr	602	46	7.64	10.19	7.92	(5.80,10.56)
Unity Hospital	295	21	7.12	10.85	6.93	(4.29,10.60)
Univ. Hosp-Brooklyn	325	57	17.54	11.73	15.79 *	(11.96,20.46)
Univ. Hosp-Stony Brook	1338	200	14.95	11.11	14.21 *	(12.31,16.32)
Univ. Hosp-Upstate	265	32	12.08	10.66	11.97	(8.19,16.90)
Vassar Bros. Med Ctr	612	51	8.33	10.24	8.59	(6.40,11.30)
Westchester Med Ctr	415	34	8.19	10.62	8.15	(5.64,11.39)
White Plains Hospital	306	43	14.05	11.41	13.01	(9.41,17.52)
Winthrop-Univ. Hosp	923	120	13.00	10.85	12.66	(10.50,15.14)
<b>Statewide Total</b>	<b>43749</b>	<b>4621</b>	<b>10.56</b>			

\*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, 2013 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.

## 2011-2013 HOSPITAL DATA FOR PCI

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Table 3 provides the number of PCIs, the in-hospital/30-day OMR and RAMR for 2011-2013 for each of three types of PCI patients in the 61 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 2011-2013 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 0.00 percent to 3.26 percent, and the RAMRs ranged from 0.00 percent to 2.09 percent. Five hospitals (Albany Medical Center, Buffalo General Hospital, Jamaica Hospital Medical Center, New York Methodist Hospital in Brooklyn, and Unity Hospital in Rochester) 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 three-year in-hospital/30-day RAMRs for non-emergency cases based on the model in Appendix 5. Non-emergency cases comprise 83.17 percent of cases for the period 2011-2013. The statewide in-hospital/30-day mortality rate for the 120,807 non-emergency cases during the 3-year period was 0.68 percent. Observed mortality rates for this group of patients ranged from 0.00 percent to 3.13 percent and the RAMRs ranged

from 0.00 to 3.03 percent. Six hospitals (Albany Medical Center, Buffalo General Hospital, Good Samaritan-Suffern, Jamaica Hospital Medical Center, New York Methodist Hospital in Brooklyn, and Unity Hospital in Rochester) had RAMRs that were significantly higher than the statewide rate. Four hospitals (Arnot-Ogden Medical Center in Elmira, Lenox Hill Hospital in Manhattan, Maimonides Medical Center in Brooklyn, and Mount Sinai Hospital 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 16.83 percent of cases for the period 2011-2013. The statewide in-hospital/30-day mortality rate for the 24,440 emergency PCI cases during the 3-year period was 2.81 percent. Observed mortality rates for this group ranged from 0.00 percent to 5.59 percent and the RAMRs ranged from 0.00 percent to 5.56 percent. Four hospitals (Albany Medical Center, Jamaica Hospital Medical Center, Rochester General Hospital, and University Hospital-Brooklyn) had a RAMRs that were significantly above the statewide average for emergency cases. Two hospitals (Maimonides Medical Center in Brooklyn and North Shore University in Manhasset ) had RAMRs that were significantly below the statewide average for emergency cases.

The observed in-hospital mortality rate (not shown in Table 3) for all 145,247 cases included in Table 3 was 0.60 percent. The in-hospital mortality rate was 0.29 percent for the 120,807 non-emergency cases and 2.14 percent for the 24,440 emergency cases. As stated above, all cases with shock and hypoxic brain injury mortalities discharged in 2011-2013 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, 2011-2013 Discharges**

Hospital	All Cases			Non-Emergency Cases			Emergency Cases		
	Cases	OMR	RAMR	Cases	OMR	RAMR	Cases	OMR	RAMR
Albany Med. Ctr	2503	2.16	2.09 *	1974	1.37	1.46 *	529	5.10	5.45 *
Arnot Ogden Med Ctr	1392	0.65	0.58	1078	0.19	0.18 **	314	2.23	2.24
Bellevue Hospital Ctr	1285	1.09	0.78	949	0.63	0.44	336	2.38	2.39
Bronx-Lebanon-Concourse	215	2.79	1.11	32	3.13	3.03	183	2.73	2.94
Brookdale Univ Hosp Med Ctr	636	1.73	1.06	455	0.88	0.45	181	3.87	3.82
Buffalo General Hosp	4730	1.40	1.43 *	3823	0.94	0.97 *	907	3.31	3.68
Cayuga Med Ctr Ithaca	415	1.45	1.19	248	0.81	0.78	167	2.40	3.12
Champ.Valley Phys Hosp	1891	1.37	1.37	1488	0.74	0.79	403	3.72	3.79
Crouse Hospital	953	1.26	1.12	708	0.71	0.94	245	2.86	2.58
Ellis Hospital	1491	0.87	0.82	965	0.41	0.50	526	1.71	2.29
Elmhurst Hospital Ctr	1381	1.16	1.06	967	0.31	0.46	414	3.14	3.24
Erie County Med Ctr	340	0.88	0.50	167	0.00	0.00	173	1.73	1.82
Faxton - St. Lukes	782	1.66	1.78	639	0.78	0.94	143	5.59	5.56
Glens Falls Hospital	657	0.76	0.94	449	0.22	0.44	208	1.92	2.81
Good Sam - Suffern	1709	1.81	1.34	1262	1.51	1.13 *	447	2.68	2.70
Good Sam-West Islip	1910	0.84	1.40	1660	0.54	0.93	250	2.80	3.72
Huntington Hospital	1012	0.59	0.74	787	0.51	0.64	225	0.89	1.40
Jamaica Hosp Med Ctr	767	3.26	2.01 *	288	2.08	1.89 *	479	3.97	5.08 *
Lenox Hill Hospital	4862	0.49	0.75	4578	0.33	0.40 **	284	3.17	2.70
Long Island Jewish MC	5158	0.72	0.88	4534	0.68	0.73	624	0.96	1.31
Lutheran Medical Ctr	841	1.19	0.68	646	0.31	0.27	195	4.10	2.26
M I Bassett Hospital	1128	0.98	1.08	866	0.58	0.73	262	2.29	2.85
Maimonides Medical Ctr	3191	0.91	0.60 **	2533	0.47	0.33 **	658	2.58	1.70 **
Mercy Hospital	2348	0.81	0.90	1735	0.63	0.75	613	1.31	1.93
Millard Fillmore Hosp	723	0.69	0.88	587	0.34	0.37	136	2.21	3.44
Montefiore - Moses	2016	0.84	0.94	1658	0.36	0.40	358	3.07	3.70
Montefiore - Weiler	1604	1.12	0.83	1214	0.66	0.57	390	2.56	2.40
Mount Sinai Beth Israel	4484	0.96	1.14	4035	0.67	0.79	449	3.56	3.05
Mount Sinai Hospital	13906	0.50	0.75 **	13512	0.44	0.49 **	394	2.79	2.17
Mount Sinai St. Lukes	1440	1.88	1.39	1185	1.18	0.98	255	5.10	3.78
NY Methodist Hospital	4086	1.05	1.45 *	3863	0.88	1.03 *	223	4.04	2.93
NYP-Columbia Presby.	8342	0.78	0.76 **	7824	0.54	0.52	518	4.44	2.00
NYP-Queens	1915	0.84	0.94	1456	0.76	0.92	459	1.09	1.47
NYP-Weill Cornell	4101	1.56	1.19	3668	1.15	0.80	433	5.08	2.99
NYU Hospitals Center	3580	0.61	1.05	3417	0.44	0.61	163	4.29	3.80
North Shore Univ Hosp	4507	0.73	0.69 **	3590	0.58	0.54	917	1.31	1.40 **
Olean General Hosp.	25	0.00	0.00	15	0.00	0.00	10	0.00	0.00
Orange Regional Med Ctr	1629	0.74	0.82	1288	0.47	0.47	341	1.76	2.47
Rochester General Hosp	4824	1.14	1.25	3873	0.70	0.66	951	2.94	4.30 *
Samaritan Hospital	411	0.97	1.69	296	0.68	1.26	115	1.74	4.28
South Nassau Com. Hosp	1713	0.88	0.95	1330	0.60	0.67	383	1.83	2.13
Southside Hospital	1844	1.08	1.19	1605	0.81	0.76	239	2.93	3.68
St. Barnabas Hospital	298	1.34	1.23	227	0.44	0.38	71	4.23	4.64
St. Catherine of Siena	802	0.62	0.61	615	0.33	0.33	187	1.60	1.86
St. Elizabeth Med Ctr	2228	1.39	1.17	1840	0.82	0.70	388	4.12	3.46
St. Francis Hospital	7230	0.89	0.97	6700	0.70	0.62	530	3.21	3.00
St. Josephs Hospital	6283	0.92	0.92	4970	0.72	0.69	1313	1.68	2.02
St. Lukes Cornwall Hosp	916	1.42	1.08	718	0.97	0.81	198	3.03	2.44
St. Peters Hospital	2152	1.30	1.19	1602	0.87	0.88	550	2.55	3.16
Staten Island Univ Hosp	2907	1.31	1.28	2424	0.62	0.66	483	4.76	3.92
Strong Memorial Hosp	2794	1.18	1.03	1899	0.79	0.87	895	2.01	2.28
UHS-Wilson Med Ctr	2119	1.32	0.92	1552	0.90	0.89	567	2.47	1.76
Unity Hospital	822	2.55	2.01 *	598	1.51	1.66 *	224	5.36	4.21
Univ. Brooklyn @ LICH	430	0.93	0.76	340	0.59	0.63	90	2.22	1.57
Univ. Hosp-Brooklyn	1111	1.62	1.35	813	0.37	0.33	298	5.03	5.48 *
Univ. Hosp-Stony Brook	4239	1.51	1.14	3018	0.93	0.73	1221	2.95	3.25
Univ. Hosp-Upstate	820	2.32	1.30	515	1.55	1.25	305	3.61	3.08
Vassar Bros. Med Ctr	1984	1.26	1.16	1408	0.71	0.73	576	2.60	3.31
Westchester Med Ctr	1626	1.48	1.20	1160	1.03	0.88	466	2.58	2.89
White Plains Hospital	852	1.29	0.94	681	1.03	0.90	171	2.34	1.61
Winthrop Univ. Hosp	2887	0.94	0.86	2480	0.65	0.59	407	2.70	2.30
<b>Statewide Total</b>	<b>145247</b>	<b>1.04</b>		<b>120807</b>	<b>0.68</b>		<b>24440</b>	<b>2.81</b>	

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

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



## 2011-2013 HOSPITAL AND CARDIOLOGIST DATA FOR PCI

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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 2011-2013 for cardiologists in each of the 61 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 2011-2013, and/or (b) performed at least one PCI in each of the years 2011-2013. 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 2011-2013.

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, 2011–2013 Discharges

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
<b>Statewide Total</b>	<b>145247</b>	<b>1506</b>	<b>1.04</b>				<b>120807</b>	<b>0.68</b>
<b>Albany Medical Center Hospital</b>								
##Brady S	312	4	1.28	1.02	1.30	(0.35, 3.32)	236	0.67
##Delago A	929	21	2.26	0.95	2.47 *	(1.53, 3.77)	801	2.12 *
El-Hajjar M	254	3	1.18	1.36	0.90	(0.18, 2.62)	167	0.79
##Esper D	227	5	2.20	1.06	2.15	(0.69, 5.03)	163	1.57
##Khawaja H	76	4	5.26	0.68	8.00 *	(2.15,20.49)	53	0.00
Nappi A	332	9	2.71	1.27	2.22	(1.01, 4.21)	259	0.77
##Papaleo R	233	2	0.86	0.71	1.26	(0.14, 4.54)	199	0.90
##Papandrea L	5	0	0.00	0.37	0.00	(0.00,100.0)	4	0.00
All Others	135	6	4.44	1.87	2.47	(0.90, 5.38)	92	1.73
<b>TOTAL</b>	<b>2503</b>	<b>54</b>	<b>2.16</b>	<b>1.07</b>	<b>2.09 *</b>	<b>(1.57, 2.73)</b>	<b>1974</b>	<b>1.46 *</b>
<b>Arnot-Ogden Medical Center</b>								
Amin N	411	3	0.73	1.36	0.56	(0.11, 1.63)	311	0.24
Grella R	498	3	0.60	1.02	0.61	(0.12, 1.78)	401	0.00
Yarkoni A	483	3	0.62	1.10	0.58	(0.12, 1.71)	366	0.32
<b>TOTAL</b>	<b>1392</b>	<b>9</b>	<b>0.65</b>	<b>1.15</b>	<b>0.58</b>	<b>(0.27, 1.11)</b>	<b>1078</b>	<b>0.18 **</b>
<b>Bellevue Hospital Center</b>								
##Attubato M	39	1	2.56	1.08	2.46	(0.03,13.66)	27	0.00
##Babaev A	13	0	0.00	3.35	0.00	(0.00, 8.72)	1	0.00
#Bangalore S	336	4	1.19	1.82	0.68	(0.18, 1.74)	253	0.40
##Coppola J	91	1	1.10	1.55	0.74	(0.01, 4.09)	66	0.00
##Feit F	60	0	0.00	1.40	0.00	(0.00, 4.53)	43	0.00
#Hegde S	142	0	0.00	0.98	0.00	(0.00, 2.74)	141	0.00
##Iqbal S	292	3	1.03	1.11	0.96	(0.19, 2.80)	203	0.00
#Kurian D	47	1	2.13	0.69	3.20	(0.04,17.81)	45	2.13
#Miller L	112	3	2.68	1.82	1.53	(0.31, 4.47)	84	1.25
##Serrano-Gomez C	16	0	0.00	2.97	0.00	(0.00, 8.00)	1	0.00
##Slater J	14	0	0.00	2.42	0.00	(0.00,11.23)	2	0.00
##Staniloae C	30	1	3.33	1.41	2.46	(0.03,13.68)	14	13.95
##Yatskar L	21	0	0.00	0.56	0.00	(0.00,32.23)	18	0.00
All Others	72	0	0.00	1.49	0.00	(0.00, 3.54)	51	0.00
<b>TOTAL</b>	<b>1285</b>	<b>14</b>	<b>1.09</b>	<b>1.45</b>	<b>0.78</b>	<b>(0.43, 1.31)</b>	<b>949</b>	<b>0.44</b>
<b>Bronx-Lebanon Hospital Ctr Concourse Div</b>								
##Amsalem Y	30	0	0.00	2.93	0.00	(0.00, 4.33)	7	0.00
##Celaj S	32	1	3.13	2.96	1.09	(0.01, 6.09)	1	0.00
##Johnson M	28	3	10.71	2.58	4.30	(0.86,12.57)	3	27.90
##Krim N	91	2	2.20	2.81	0.81	(0.09, 2.93)	19	0.00
All Others	34	0	0.00	1.41	0.00	(0.00, 7.93)	2	0.00
<b>TOTAL</b>	<b>215</b>	<b>6</b>	<b>2.79</b>	<b>2.60</b>	<b>1.11</b>	<b>(0.41, 2.42)</b>	<b>32</b>	<b>3.03</b>
<b>Brookdale Univ. Hospital Medical Ctr</b>								
#Castillo R	332	8	2.41	2.01	1.25	(0.54, 2.45)	232	0.76
#Chadow H	303	3	0.99	1.37	0.75	(0.15, 2.20)	222	0.00
##John S	1	0	0.00	0.30	0.00	(0.00,100.0)	1	0.00
<b>TOTAL</b>	<b>636</b>	<b>11</b>	<b>1.73</b>	<b>1.70</b>	<b>1.06</b>	<b>(0.53, 1.89)</b>	<b>455</b>	<b>0.45</b>
<b>Buffalo General Hospital</b>								
##Calandra S	1	0	0.00	0.43	0.00	(0.00,100.0)	1	0.00
##Chaudhry E	21	0	0.00	0.75	0.00	(0.00,24.01)	12	0.00
#Conley J	1021	12	1.18	1.02	1.20	(0.62, 2.09)	886	0.81
#Corbelli J	91	1	1.10	1.03	1.10	(0.01, 6.13)	67	0.00
##Dashkoff N	172	2	1.16	2.03	0.59	(0.07, 2.14)	112	0.00
##Emerson R	1	0	0.00	1.12	0.00	(0.00,100.0)	1	0.00

Table 4, *continued*

	Cases	Deaths	OMR	All Cases		95% CI for RAMR	Non-emergency	
				EMR	RAMR		Cases	RAMR
##Farhi E	747	8	1.07	0.88	1.26	(0.54, 2.48)	587	0.53
##Gelormini J	34	1	2.94	0.67	4.57	(0.06,25.40)	32	3.10
##Haq N	9	0	0.00	1.17	0.00	(0.00,36.07)	1	0.00
##Iyer V	451	8	1.77	1.21	1.52	(0.65, 3.00)	349	1.30
##Masud A	223	8	3.59	1.16	3.20 *	(1.38, 6.30)	200	2.09
##Morris W	975	12	1.23	1.02	1.25	(0.64, 2.18)	821	1.01
##Phadke K	486	8	1.65	1.04	1.64	(0.70, 3.22)	312	0.73
##Sullivan P	81	1	1.23	0.64	2.00	(0.03,11.14)	66	0.00
Visco J	358	5	1.40	0.43	3.35 *	(1.08, 7.82)	344	2.61 *
All Others	59	0	0.00	1.59	0.00	(0.00, 4.05)	32	0.00
<b>TOTAL</b>	<b>4730</b>	<b>66</b>	<b>1.40</b>	<b>1.01</b>	<b>1.43 *</b>	<b>(1.10, 1.81)</b>	<b>3823</b>	<b>0.97 *</b>
<b>Cayuga Medical Center at Ithaca</b>								
Goodwin S	183	4	2.19	1.40	1.61	(0.43, 4.13)	104	0.00
#Stefek P	232	2	0.86	1.15	0.78	(0.09, 2.82)	144	1.16
<b>TOTAL</b>	<b>415</b>	<b>6</b>	<b>1.45</b>	<b>1.26</b>	<b>1.19</b>	<b>(0.43, 2.59)</b>	<b>248</b>	<b>0.78</b>
<b>Champlain Valley Physicians Hospital</b>								
Bradley W	646	7	1.08	0.97	1.16	(0.46, 2.38)	519	0.39
Garrand T	529	7	1.32	1.30	1.06	(0.42, 2.18)	403	0.77
Gauthier E	716	12	1.68	0.91	1.92	(0.99, 3.35)	566	1.24
<b>TOTAL</b>	<b>1891</b>	<b>26</b>	<b>1.37</b>	<b>1.04</b>	<b>1.37</b>	<b>(0.90, 2.01)</b>	<b>1488</b>	<b>0.79</b>
<b>Crouse Hospital</b>								
Battaglia J	546	6	1.10	0.85	1.34	(0.49, 2.92)	409	1.39
#George A	407	6	1.47	1.60	0.96	(0.35, 2.08)	299	0.41
<b>TOTAL</b>	<b>953</b>	<b>12</b>	<b>1.26</b>	<b>1.17</b>	<b>1.12</b>	<b>(0.58, 1.95)</b>	<b>708</b>	<b>0.94</b>
<b>Ellis Hospital</b>								
Cospito P	334	3	0.90	1.32	0.70	(0.14, 2.06)	215	0.00
Dempsey S	63	0	0.00	0.52	0.00	(0.00,11.51)	63	0.00
Jordan M	323	1	0.31	1.09	0.30	(0.00, 1.64)	192	0.67
Parkes R	491	6	1.22	1.04	1.22	(0.45, 2.66)	342	0.64
Weitz S	248	3	1.21	1.21	1.04	(0.21, 3.03)	123	1.03
All Others	32	0	0.00	0.41	0.00	(0.00,28.93)	30	0.00
<b>TOTAL</b>	<b>1491</b>	<b>13</b>	<b>0.87</b>	<b>1.11</b>	<b>0.82</b>	<b>(0.44, 1.40)</b>	<b>965</b>	<b>0.50</b>
<b>Elmhurst Hospital Center</b>								
#Kamran M	875	5	0.57	0.77	0.77	(0.25, 1.80)	650	0.48
##Kim M	27	0	0.00	1.93	0.00	(0.00, 7.29)	1	0.00
##Pyo R	57	5	8.77	3.62	2.52	(0.81, 5.87)	5	0.00
##Serrano-Gomez C	7	0	0.00	0.24	0.00	(0.00,100.0)	7	0.00
##Yatskar L	413	5	1.21	1.49	0.84	(0.27, 1.97)	304	0.44
All Others	2	1	50.00	6.67	7.77	(0.10,43.25)	.	.
<b>TOTAL</b>	<b>1381</b>	<b>16</b>	<b>1.16</b>	<b>1.13</b>	<b>1.06</b>	<b>(0.61, 1.72)</b>	<b>967</b>	<b>0.46</b>
<b>Erie County Medical Center</b>								
##Dashkoff N	280	2	0.71	1.73	0.43	(0.05, 1.55)	159	0.00
##Emerson R	4	0	0.00	0.25	0.00	(0.00,100.0)	2	0.00
##Iyer V	31	0	0.00	3.03	0.00	(0.00, 4.05)	4	0.00
##Phadke K	2	0	0.00	0.12	0.00	(0.00,100.0)	2	0.00
Young H	23	1	4.35	1.88	2.40	(0.03,13.35)	.	.
<b>TOTAL</b>	<b>340</b>	<b>3</b>	<b>0.88</b>	<b>1.83</b>	<b>0.50</b>	<b>(0.10, 1.46)</b>	<b>167</b>	<b>0.00</b>
<b>Faxton-St. Lukes Hlthcare- St.Lukes Div</b>								
#Kelberman M	11	1	9.09	0.86	11.01	(0.14,61.27)	7	0.00
##Kozman H	6	0	0.00	0.67	0.00	(0.00,94.99)	1	0.00
#MacIsaac H	56	3	5.36	2.95	1.88	(0.38, 5.50)	41	1.92
#Mathew T C	309	3	0.97	0.70	1.44	(0.29, 4.21)	255	0.77
#Nassif R	180	3	1.67	0.63	2.73	(0.55, 7.99)	159	2.16
#Patel A	17	1	5.88	1.60	3.80	(0.05,21.15)	8	0.00
#Sassower M	49	2	4.08	1.97	2.15	(0.24, 7.75)	36	0.00
#Varma P	27	0	0.00	1.27	0.00	(0.00,11.09)	17	0.00
All Others	127	0	0.00	0.70	0.00	(0.00, 4.29)	115	0.00
<b>TOTAL</b>	<b>782</b>	<b>13</b>	<b>1.66</b>	<b>0.97</b>	<b>1.78</b>	<b>(0.95, 3.05)</b>	<b>639</b>	<b>0.94</b>

Table 4, continued

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
<b>Glens Falls Hospital</b>								
Bashir I	340	1	0.29	0.78	0.39	(0.01, 2.17)	247	0.00
##Brady S	1	0	0.00	0.74	0.00	(0.00,100.0)	.	.
##Delago A	1	0	0.00	0.66	0.00	(0.00,100.0)	.	.
Hogan R	289	3	1.04	0.80	1.35	(0.27, 3.94)	201	0.94
##Papaleo R	26	1	3.85	2.10	1.90	(0.02,10.55)	1	0.00
<b>TOTAL</b>	<b>657</b>	<b>5</b>	<b>0.76</b>	<b>0.84</b>	<b>0.94</b>	<b>(0.30, 2.19)</b>	<b>449</b>	<b>0.44</b>
<b>Good Samaritan Hosp Med Ctr- West Islip</b>								
##Caselnova R	463	4	0.86	0.67	1.34	(0.36, 3.42)	424	1.01
##Deutsch E	146	2	1.37	0.59	2.42	(0.27, 8.72)	116	0.00
##Hormozi S	412	5	1.21	0.76	1.66	(0.53, 3.87)	363	1.26
##Lee P J	440	3	0.68	0.47	1.50	(0.30, 4.37)	394	0.57
##Patel R B	134	1	0.75	0.77	1.00	(0.01, 5.57)	96	1.72
##Reich D	315	1	0.32	0.51	0.64	(0.01, 3.58)	267	0.75
<b>TOTAL</b>	<b>1910</b>	<b>16</b>	<b>0.84</b>	<b>0.62</b>	<b>1.40</b>	<b>(0.80, 2.28)</b>	<b>1660</b>	<b>0.93</b>
<b>Good Samaritan Hospital - Suffern</b>								
#Agarwal A	7	1	14.29	1.65	8.96	(0.12,49.82)	6	0.00
#Bander J	5	0	0.00	0.56	0.00	(0.00,100.0)	2	0.00
#Brogno D	141	1	0.71	1.05	0.70	(0.01, 3.89)	108	0.94
Hirsch C	340	3	0.88	0.81	1.13	(0.23, 3.30)	296	0.77
Innerfield M	191	2	1.05	1.73	0.63	(0.07, 2.27)	101	0.67
##Kandov R	19	1	5.26	2.96	1.85	(0.02,10.27)	4	0.00
Kovar L	276	3	1.09	1.40	0.81	(0.16, 2.36)	216	0.86
##Pyo R	122	3	2.46	1.11	2.29	(0.46, 6.68)	110	1.69
##Royzman R	12	2	16.67	7.31	2.36	(0.27, 8.53)	2	0.00
Shah A R	291	8	2.75	1.38	2.07	(0.89, 4.08)	229	1.70
#Shapira S	3	0	0.00	0.20	0.00	(0.00,100.0)	3	0.00
Shih A C	217	7	3.23	1.79	1.87	(0.75, 3.84)	130	1.43
All Others	85	0	0.00	2.01	0.00	(0.00, 2.23)	55	0.00
<b>TOTAL</b>	<b>1709</b>	<b>31</b>	<b>1.81</b>	<b>1.40</b>	<b>1.34</b>	<b>(0.91, 1.91)</b>	<b>1262</b>	<b>1.13*</b>
<b>Huntington Hospital</b>								
##Bagga R	330	2	0.61	0.94	0.67	(0.08, 2.42)	253	0.48
##Ong L Y	80	0	0.00	0.58	0.00	(0.00, 8.22)	70	0.00
##Patcha R	174	0	0.00	0.94	0.00	(0.00, 2.32)	124	0.00
##Polena S	296	4	1.35	0.65	2.15	(0.58, 5.50)	248	1.60
##Strizik B	132	0	0.00	0.96	0.00	(0.00, 2.99)	92	0.00
<b>TOTAL</b>	<b>1012</b>	<b>6</b>	<b>0.59</b>	<b>0.83</b>	<b>0.74</b>	<b>(0.27, 1.61)</b>	<b>787</b>	<b>0.64</b>
<b>Jamaica Hospital Medical Center</b>								
#Jain S	203	5	2.46	1.57	1.63	(0.52, 3.80)	95	1.09
#Kukar A	12	0	0.00	1.40	0.00	(0.00,22.58)	.	.
#Lasic Z	213	7	3.29	1.96	1.74	(0.70, 3.58)	77	2.33
##Puma A	7	1	14.29	1.63	9.11	(0.12,50.70)	.	.
#Raza J	194	6	3.09	1.45	2.21	(0.81, 4.81)	79	1.22
##Soffer D	8	0	0.00	1.04	0.00	(0.00,45.73)	.	.
##Yang Y	6	0	0.00	2.15	0.00	(0.00,29.54)	.	.
All Others	124	6	4.84	1.82	2.76	(1.01, 6.02)	37	3.48
<b>TOTAL</b>	<b>767</b>	<b>25</b>	<b>3.26</b>	<b>1.68</b>	<b>2.01*</b>	<b>(1.30, 2.96)</b>	<b>288</b>	<b>1.89*</b>
<b>Lenox Hill Hospital</b>								
##Aboufares A	151	2	1.32	0.98	1.40	(0.16, 5.04)	142	0.00
##Amsalem Y	46	2	4.35	1.53	2.95	(0.33,10.64)	37	1.96
##Attubato M	21	0	0.00	0.98	0.00	(0.00,18.49)	21	0.00
##Babaev A	6	0	0.00	1.30	0.00	(0.00,48.68)	6	0.00
##Coppola J	3	0	0.00	0.23	0.00	(0.00,100.0)	3	0.00
##Dominguez-Echeva	15	0	0.00	0.46	0.00	(0.00,54.76)	15	0.00
##Feit F	8	0	0.00	0.28	0.00	(0.00,100.0)	8	0.00
##Fernaine G	11	0	0.00	0.29	0.00	(0.00,100.0)	11	0.00
#Gade C	26	0	0.00	0.27	0.00	(0.00,54.19)	25	0.00
Garratt K	372	1	0.27	0.75	0.37	(0.00, 2.07)	331	0.34
##Hassid B	166	1	0.60	0.74	0.84	(0.01, 4.68)	155	0.69
Hernandez-Vila E	244	1	0.41	0.91	0.47	(0.01, 2.61)	228	0.00

Table 4, continued

	Cases	Deaths	OMR	All Cases			Non-emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
##Iqbal S	2	0	0.00	0.56	0.00	(0.00,100.0)	2	0.00
Iyer S	221	4	1.81	1.07	1.76	(0.47, 4.50)	199	1.06
#Jain S	234	0	0.00	0.55	0.00	(0.00, 2.98)	230	0.00
##Kesanakurthy S	294	0	0.00	0.59	0.00	(0.00, 2.19)	285	0.00
##Kim M	1	0	0.00	0.51	0.00	(0.00,100.0)	1	0.00
#Kukar A	253	2	0.79	0.80	1.02	(0.11, 3.69)	236	0.44
#Lasic Z	221	0	0.00	0.83	0.00	(0.00, 2.08)	213	0.00
##Papadakos S	116	0	0.00	0.41	0.00	(0.00, 7.97)	114	0.00
##Puma A	129	0	0.00	0.43	0.00	(0.00, 6.91)	127	0.00
#Raza J	279	2	0.72	0.45	1.67	(0.19, 6.03)	275	0.52
Reimers C	806	0	0.00	0.58	0.00 **	(0.00, 0.82)	762	0.00 **
##Rentrop K	6	0	0.00	0.19	0.00	(0.00,100.0)	6	0.00
##Roubin G	43	0	0.00	0.52	0.00	(0.00,17.12)	40	0.00
Ruiz C	5	0	0.00	0.90	0.00	(0.00,84.08)	5	0.00
##Seldon M	3	0	0.00	0.33	0.00	(0.00,100.0)	3	0.00
#Singh V	321	2	0.62	0.52	1.25	(0.14, 4.52)	317	0.98
##Slater J	10	0	0.00	0.39	0.00	(0.00,97.33)	10	0.00
##Soffer D	69	0	0.00	0.42	0.00	(0.00,13.05)	66	0.00
##Staniloae C	2	0	0.00	0.16	0.00	(0.00,100.0)	2	0.00
#Stathopoulos I	108	1	0.93	0.65	1.47	(0.02, 8.18)	106	0.91
##Wilentz J	84	0	0.00	0.68	0.00	(0.00, 6.64)	72	0.00
##Yang Y	85	0	0.00	0.49	0.00	(0.00, 9.08)	82	0.00
Zaric M	52	0	0.00	1.79	0.00	(0.00, 4.08)	32	0.00
All Others	449	6	1.34	0.76	1.82	(0.67, 3.97)	411	1.60
<b>TOTAL</b>	<b>4862</b>	<b>24</b>	<b>0.49</b>	<b>0.69</b>	<b>0.75</b>	<b>(0.48, 1.11)</b>	<b>4578</b>	<b>0.40 **</b>
<b>Long Island Jewish Medical Center</b>								
##Arkonac B	369	7	1.90	1.51	1.31	(0.52, 2.69)	311	0.78
##Bagga R	71	0	0.00	0.70	0.00	(0.00, 7.62)	70	0.00
#Boutis L	36	1	2.78	3.94	0.73	(0.01, 4.07)	4	0.00
##Deutsch E	2	0	0.00	1.43	0.00	(0.00,100.0)	2	0.00
##Dhama B	339	2	0.59	0.79	0.78	(0.09, 2.81)	329	0.54
##Friedman G H	70	1	1.43	0.71	2.09	(0.03,11.65)	63	1.79
##Green S	10	0	0.00	1.69	0.00	(0.00,22.55)	2	0.00
##Grunwald A	165	0	0.00	0.70	0.00	(0.00, 3.28)	155	0.00
#Gupta R	47	0	0.00	0.88	0.00	(0.00, 9.22)	45	0.00
##Hameedi A	777	2	0.26	0.29	0.92	(0.10, 3.33)	775	0.64
#Jauhar R	1303	9	0.69	0.75	0.96	(0.44, 1.81)	1140	0.88
#Kaplan B	1052	7	0.67	0.88	0.79	(0.31, 1.62)	947	0.64
#Katz S	33	0	0.00	2.02	0.00	(0.00, 5.72)	5	0.00
##Kim M	8	0	0.00	1.04	0.00	(0.00,45.74)	1	0.00
##Koss J	186	2	1.08	0.72	1.55	(0.17, 5.59)	170	2.18
#Lee A	84	1	1.19	1.65	0.75	(0.01, 4.17)	54	0.96
#Marchant D	29	0	0.00	2.52	0.00	(0.00, 5.21)	6	0.00
#Meraj P	376	5	1.33	1.25	1.10	(0.35, 2.57)	283	0.95
#Musso J	4	0	0.00	0.22	0.00	(0.00,100.0)	4	0.00
##Ong L Y	6	0	0.00	1.65	0.00	(0.00,38.33)	3	0.00
##Polena S	31	0	0.00	0.88	0.00	(0.00,13.95)	31	0.00
#Rutkin B	18	0	0.00	1.19	0.00	(0.00,17.73)	1	0.00
##Strizik B	3	0	0.00	1.16	0.00	(0.00,100.0)	2	0.00
##Yadav S	43	0	0.00	0.30	0.00	(0.00,29.30)	42	0.00
All Others	96	0	0.00	0.55	0.00	(0.00, 7.23)	89	0.00
<b>TOTAL</b>	<b>5158</b>	<b>37</b>	<b>0.72</b>	<b>0.85</b>	<b>0.88</b>	<b>(0.62, 1.21)</b>	<b>4534</b>	<b>0.73</b>
<b>Lutheran Medical Center</b>								
##Dominguez-Echeva	82	0	0.00	1.30	0.00	(0.00, 3.57)	79	0.00
##Fernaine G	514	4	0.78	1.17	0.69	(0.19, 1.77)	442	0.46
##Hoyek W	70	2	2.86	1.83	1.62	(0.18, 5.86)	35	0.00
##Kandov R	56	1	1.79	4.37	0.42	(0.01, 2.36)	32	0.00
##Lee P C	62	2	3.23	3.00	1.12	(0.13, 4.03)	31	0.00
##Royzman R	57	1	1.75	4.69	0.39	(0.01, 2.16)	27	0.00
<b>TOTAL</b>	<b>841</b>	<b>10</b>	<b>1.19</b>	<b>1.82</b>	<b>0.68</b>	<b>(0.32, 1.24)</b>	<b>646</b>	<b>0.27</b>

Table 4, continued

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
<b>M I Bassett Hospital</b>								
Laifer L	208	4	1.92	0.89	2.23	(0.60, 5.72)	139	0.00
McNulty P	344	5	1.45	1.01	1.50	(0.48, 3.49)	273	2.31
Menzies D	528	2	0.38	0.94	0.42	(0.05, 1.51)	416	0.27
##Sherman W	2	0	0.00	0.27	0.00	(0.00,100.0)	2	0.00
All Others	46	0	0.00	0.64	0.00	(0.00,12.92)	36	0.00
<b>TOTAL</b>	<b>1128</b>	<b>11</b>	<b>0.98</b>	<b>0.94</b>	<b>1.08</b>	<b>(0.54, 1.93)</b>	<b>866</b>	<b>0.73</b>
<b>Maimonides Medical Center</b>								
Ayzenberg S	666	8	1.20	2.02	0.62	(0.26, 1.21)	467	0.26
Borgen E	648	8	1.23	1.78	0.72	(0.31, 1.42)	462	0.45
Frankel R	466	1	0.21	1.01	0.22	(0.00, 1.22)	425	0.20
Friedman M	285	3	1.05	2.33	0.47	(0.09, 1.37)	186	0.00
##Hoyek W	6	0	0.00	1.14	0.00	(0.00,55.71)	6	0.00
##Kantrowitz N	6	0	0.00	0.17	0.00	(0.00,100.0)	6	0.00
Malik B	781	9	1.15	1.31	0.92	(0.42, 1.74)	660	0.62
#Palta S	1	0	0.00	0.17	0.00	(0.00,100.0)	1	0.00
Shani J	295	0	0.00	1.13	0.00	(0.00, 1.14)	283	0.00
##Shohat E	28	0	0.00	0.28	0.00	(0.00,47.83)	28	0.00
All Others	9	0	0.00	0.47	0.00	(0.00,89.79)	9	0.00
<b>TOTAL</b>	<b>3191</b>	<b>29</b>	<b>0.91</b>	<b>1.57</b>	<b>0.60 **</b>	<b>(0.40, 0.86)</b>	<b>2533</b>	<b>0.33 **</b>
<b>Mercy Hospital of Buffalo</b>								
##Calandra S	430	2	0.47	0.68	0.71	(0.08, 2.58)	326	0.45
##Chaudhry E	29	2	6.90	1.62	4.41	(0.50,15.91)	13	0.00
#Conley J	8	0	0.00	0.25	0.00	(0.00,100.0)	8	0.00
##Dashkoff N	1	0	0.00	0.20	0.00	(0.00,100.0)	1	0.00
##Emerson R	225	3	1.33	1.06	1.31	(0.26, 3.81)	131	1.63
##Farhi E	3	0	0.00	2.22	0.00	(0.00,57.00)	2	0.00
##Gelormini J	505	3	0.59	1.08	0.57	(0.11, 1.67)	376	0.66
##Haq N	385	1	0.26	0.87	0.31	(0.00, 1.72)	279	0.00
##Masud A	99	1	1.01	1.35	0.77	(0.01, 4.31)	87	0.00
Meltser H	493	3	0.61	0.94	0.67	(0.13, 1.96)	361	0.71
##Morris W	24	0	0.00	0.50	0.00	(0.00,31.87)	24	0.00
##Phadke K	14	0	0.00	0.19	0.00	(0.00,100.0)	13	0.00
##Sullivan P	48	0	0.00	0.58	0.00	(0.00,13.55)	37	0.00
All Others	84	4	4.76	1.09	4.52 *	(1.22,11.58)	77	3.21 *
<b>TOTAL</b>	<b>2348</b>	<b>19</b>	<b>0.81</b>	<b>0.93</b>	<b>0.90</b>	<b>(0.54, 1.40)</b>	<b>1735</b>	<b>0.75</b>
<b>Millard Fillmore Hospital</b>								
##Calandra S	3	0	0.00	0.18	0.00	(0.00,100.0)	3	0.00
##Chaudhry E	1	0	0.00	0.53	0.00	(0.00,100.0)	.	.
#Corbelli J	285	2	0.70	0.85	0.86	(0.10, 3.11)	249	0.38
##Farhi E	2	0	0.00	2.64	0.00	(0.00,72.01)	.	.
##Gelormini J	23	0	0.00	0.35	0.00	(0.00,47.92)	22	0.00
##Haq N	13	0	0.00	1.45	0.00	(0.00,20.15)	3	0.00
##Iyer V	9	0	0.00	1.26	0.00	(0.00,33.47)	2	0.00
##Masud A	76	1	1.32	1.09	1.25	(0.02, 6.96)	65	0.00
##Morris W	6	0	0.00	1.83	0.00	(0.00,34.57)	.	.
##Phadke K	296	1	0.34	0.70	0.50	(0.01, 2.80)	237	0.00
##Sullivan P	2	0	0.00	0.35	0.00	(0.00,100.0)	1	0.00
All Others	7	1	14.29	0.76	19.43	(0.25,100.0)	5	16.88
<b>TOTAL</b>	<b>723</b>	<b>5</b>	<b>0.69</b>	<b>0.82</b>	<b>0.88</b>	<b>(0.28, 2.05)</b>	<b>587</b>	<b>0.37</b>
<b>Montefiore Medical Center - Moses</b>								
##Amsalem Y	167	1	0.60	1.45	0.43	(0.01, 2.39)	136	0.00
##Bliagos D	13	0	0.00	0.85	0.00	(0.00,34.59)	12	0.00
##Celaj S	227	2	0.88	0.80	1.14	(0.13, 4.12)	183	1.27
##Greenberg M	513	3	0.58	0.87	0.70	(0.14, 2.05)	423	0.27
##Johnson M	214	2	0.93	0.72	1.35	(0.15, 4.87)	191	0.00
##Krim N	103	1	0.97	0.56	1.81	(0.02,10.07)	101	0.00
##Menegus M	472	5	1.06	1.06	1.04	(0.34, 2.43)	358	0.80
##Sehhat K	32	0	0.00	0.43	0.00	(0.00,27.44)	31	0.00
##Shih A T	69	2	2.90	1.32	2.28	(0.26, 8.23)	44	0.00
#Slovut D	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00

Table 4, continued

	Cases	Deaths	OMR	All Cases		95% CI for RAMR	Non-emergency	
				EMR	RAMR		Cases	RAMR
##Srinivas V	17	0	0.00	0.58	0.00	(0.00,38.64)	15	0.00
All Others	188	1	0.53	0.94	0.59	(0.01, 3.27)	163	0.00
<b>TOTAL</b>	<b>2016</b>	<b>17</b>	<b>0.84</b>	<b>0.93</b>	<b>0.94</b>	<b>(0.55, 1.50)</b>	<b>1658</b>	<b>0.40</b>
<b>Montefiore Medical Center - Weiler</b>								
##Celaj S	4	0	0.00	1.70	0.00	(0.00,55.81)	1	0.00
##Gotsis W	53	1	1.89	1.39	1.41	(0.02, 7.83)	43	0.00
##Greenberg M	59	0	0.00	1.53	0.00	(0.00, 4.20)	57	0.00
##Johnson M	22	0	0.00	1.00	0.00	(0.00,17.28)	18	0.00
##Krim N	1	0	0.00	8.80	0.00	(0.00,43.23)	1	0.00
##Menegus M	38	1	2.63	1.59	1.72	(0.02, 9.57)	30	0.00
Monrad E	426	3	0.70	1.29	0.57	(0.11, 1.65)	336	0.51
##Silverman G	65	3	4.62	0.84	5.72 *	(1.15,16.71)	48	5.61
#Slovut D	154	2	1.30	1.76	0.76	(0.09, 2.76)	85	0.00
Sokol S	222	0	0.00	0.84	0.00	(0.00, 2.03)	160	0.00
##Srinivas V	440	8	1.82	1.46	1.29	(0.56, 2.54)	358	0.97
All Others	120	0	0.00	2.26	0.00	(0.00, 1.40)	77	0.00
<b>TOTAL</b>	<b>1604</b>	<b>18</b>	<b>1.12</b>	<b>1.40</b>	<b>0.83</b>	<b>(0.49, 1.32)</b>	<b>1214</b>	<b>0.57</b>
<b>Mount Sinai Beth Israel</b>								
##Aslam A K	150	1	0.67	0.23	3.00	(0.04,16.69)	145	0.00
Fox J	1159	12	1.04	0.94	1.14	(0.59, 2.00)	1075	0.92
##Gowda R	638	6	0.94	1.40	0.70	(0.25, 1.52)	537	0.71
Kanei Y	363	5	1.38	1.45	0.99	(0.32, 2.30)	243	0.39
##Kantrowitz N	1	0	0.00	0.12	0.00	(0.00,100.0)	1	0.00
#Kwan T	881	1	0.11	0.37	0.32	(0.00, 1.77)	881	0.22
##Lee P C	14	0	0.00	0.31	0.00	(0.00,87.09)	14	0.00
#Liou M	108	1	0.93	0.47	2.03	(0.03,11.32)	106	1.47
Nakra N	292	6	2.05	1.45	1.47	(0.54, 3.20)	220	1.18
Patel R H	73	0	0.00	0.38	0.00	(0.00,13.75)	72	0.00
##Puma A	51	1	1.96	0.35	5.74	(0.08,31.95)	51	4.21
Punukollu G	200	0	0.00	0.48	0.00	(0.00, 3.94)	196	0.00
#Rosero H	396	8	2.02	0.86	2.44 *	(1.05, 4.80)	337	1.29
##Roubin G	2	0	0.00	2.42	0.00	(0.00,78.53)	2	0.00
##Sehhat K	2	0	0.00	0.08	0.00	(0.00,100.0)	2	0.00
##Seldon M	1	0	0.00	0.18	0.00	(0.00,100.0)	1	0.00
##Wilentz J	1	0	0.00	0.26	0.00	(0.00,100.0)	1	0.00
All Others	152	2	1.32	0.46	2.97	(0.33,10.74)	151	2.02
<b>TOTAL</b>	<b>4484</b>	<b>43</b>	<b>0.96</b>	<b>0.87</b>	<b>1.14</b>	<b>(0.83, 1.54)</b>	<b>4035</b>	<b>0.79</b>
<b>Mount Sinai Hospital</b>								
Baber U	77	0	0.00	1.12	0.00	(0.00, 4.41)	70	0.00
#Bander J	213	3	1.41	0.97	1.51	(0.30, 4.41)	199	1.16
##Bliagos D	14	0	0.00	0.44	0.00	(0.00,61.86)	14	0.00
Dangas G	439	1	0.23	1.33	0.18 **	(0.00, 0.99)	392	0.16
##Dominguez-Echeva	33	0	0.00	0.47	0.00	(0.00,24.34)	33	0.00
##Fernaine G	128	2	1.56	0.74	2.20	(0.25, 7.93)	127	1.75
##Hameedi A	147	0	0.00	0.24	0.00	(0.00,10.76)	147	0.00
#Hasan C	344	0	0.00	0.25	0.00	(0.00, 4.40)	343	0.00
#Jayasundera T	7	0	0.00	0.27	0.00	(0.00,100.0)	7	0.00
#Kamran M	19	0	0.00	0.77	0.00	(0.00,25.92)	19	0.00
##Kesanakurthy S	269	1	0.37	0.36	1.06	(0.01, 5.89)	266	0.70
##Kim M	1281	11	0.86	0.80	1.11	(0.55, 1.99)	1252	0.63
Kini A	2883	10	0.35	0.60	0.60	(0.29, 1.10)	2798	0.31 **
Kovacac J	121	1	0.83	1.70	0.50	(0.01, 2.80)	94	0.61
Krishnan P	331	2	0.60	0.65	0.96	(0.11, 3.48)	314	0.72
#Lee J	16	0	0.00	0.16	0.00	(0.00,100.0)	16	0.00
##Lee P C	24	0	0.00	0.87	0.00	(0.00,18.19)	23	0.00
Limaye A	232	4	1.72	1.54	1.16	(0.31, 2.98)	196	1.00
Mittal N	85	0	0.00	0.25	0.00	(0.00,18.26)	85	0.00
Moreno P	1107	5	0.45	0.53	0.89	(0.29, 2.07)	1090	0.40
#Nguyen T	1	0	0.00	0.12	0.00	(0.00,100.0)	1	0.00
Palkhiwala S	624	3	0.48	0.49	1.02	(0.21, 2.98)	619	0.65
##Pyo R	189	5	2.65	1.14	2.41	(0.78, 5.62)	175	1.53
##Serrano-Gomez C	7	0	0.00	0.26	0.00	(0.00,100.0)	7	0.00

Table 4, continued

	Cases	Deaths	OMR	All Cases			95% CI for RAMR	Non-emergency	
				EMR	RAMR	Cases		RAMR	
##Shah A	4	0	0.00	0.21	0.00	(0.00,100.0)	4	0.00	
Sharma S	3925	15	0.38	0.71	0.56 **	(0.31, 0.92)	3906	0.38 **	
##Shih A T	14	0	0.00	0.36	0.00	(0.00,75.48)	13	0.00	
##Soffer D	81	0	0.00	0.67	0.00	(0.00, 7.01)	80	0.00	
Suleman J	672	0	0.00	0.37	0.00	(0.00, 1.55)	669	0.00	
Sweeny J	402	6	1.49	0.93	1.67	(0.61, 3.64)	361	1.64	
Wiley J	95	1	1.05	2.22	0.49	(0.01, 2.74)	73	0.00	
##Yadav S	44	0	0.00	0.20	0.00	(0.00,42.81)	44	0.00	
All Others	78	0	0.00	0.32	0.00	(0.00,15.29)	75	0.00	
<b>TOTAL</b>	<b>13906</b>	<b>70</b>	<b>0.50</b>	<b>0.69</b>	<b>0.75 **</b>	<b>(0.59, 0.95)</b>	<b>13512</b>	<b>0.49 **</b>	
<b>Mount Sinai St. Lukes</b>									
#Coven D	196	2	1.02	1.07	0.99	(0.11, 3.57)	150	1.36	
##Gowda R	1	0	0.00	0.91	0.00	(0.00,100.0)	1	0.00	
Hong M	266	6	2.26	1.29	1.82	(0.66, 3.95)	235	0.42	
Husain S	39	1	2.56	0.54	4.94	(0.06,27.50)	38	3.25	
Leber R	249	5	2.01	1.28	1.62	(0.52, 3.79)	201	1.22	
Palazzo A	116	2	1.72	1.29	1.38	(0.16, 5.00)	82	0.00	
##Roubin G	16	0	0.00	0.40	0.00	(0.00,58.93)	16	0.00	
##Serrano-Gomez C	1	0	0.00	0.23	0.00	(0.00,100.0)	1	0.00	
Simon C	397	9	2.27	1.89	1.25	(0.57, 2.37)	350	1.13	
##Slater J	3	0	0.00	0.19	0.00	(0.00,100.0)	3	0.00	
Tamis-Holland J	150	2	1.33	1.40	0.98	(0.11, 3.55)	102	0.77	
All Others	6	0	0.00	0.58	0.00	(0.00,100.0)	6	0.00	
<b>TOTAL</b>	<b>1440</b>	<b>27</b>	<b>1.88</b>	<b>1.40</b>	<b>1.39</b>	<b>(0.92, 2.02)</b>	<b>1185</b>	<b>0.98</b>	
<b>NY Methodist Hospital</b>									
##Aslam A K	319	1	0.31	0.22	1.46	(0.02, 8.14)	314	0.96	
#Badero O	147	1	0.68	0.32	2.23	(0.03,12.39)	147	1.63	
#Bhambhani G	189	0	0.00	0.28	0.00	(0.00, 7.15)	189	0.00	
Brener S	443	12	2.71	1.76	1.60	(0.82, 2.79)	351	1.27	
Chokshi A	65	0	0.00	0.51	0.00	(0.00,11.53)	65	0.00	
##Dominguez-Echeva	26	0	0.00	0.21	0.00	(0.00,68.30)	26	0.00	
Haq S	156	1	0.64	1.20	0.56	(0.01, 3.09)	151	0.37	
##Hoyek W	163	3	1.84	0.39	4.89	(0.98,14.28)	162	3.21	
#Jasty B	108	1	0.93	0.54	1.79	(0.02, 9.95)	108	1.13	
##John S	7	0	0.00	0.63	0.00	(0.00,86.20)	7	0.00	
#Palta S	111	0	0.00	0.18	0.00	(0.00,18.86)	111	0.00	
Rouvelas P	129	0	0.00	0.37	0.00	(0.00, 7.98)	129	0.00	
Sacchi T	1043	11	1.05	0.91	1.20	(0.60, 2.15)	939	0.74	
##Shah A	376	1	0.27	0.57	0.48	(0.01, 2.68)	369	0.35	
Shaknovich A	172	3	1.74	0.85	2.13	(0.43, 6.24)	171	1.66	
##Sherman W	7	0	0.00	0.23	0.00	(0.00,100.0)	7	0.00	
##Shohat E	26	0	0.00	0.33	0.00	(0.00,44.92)	26	0.00	
#Slotwiner A	4	0	0.00	0.71	0.00	(0.00,100.0)	4	0.00	
##Srivastava S	10	1	10.00	0.70	14.74	(0.19,81.99)	10	10.81	
Wikramanayake T	53	2	3.77	1.66	2.36	(0.26, 8.52)	52	1.71	
##Yadav S	322	3	0.93	0.28	3.49	(0.70,10.21)	321	2.24	
All Others	210	3	1.43	0.90	1.65	(0.33, 4.81)	204	1.41	
<b>TOTAL</b>	<b>4086</b>	<b>43</b>	<b>1.05</b>	<b>0.75</b>	<b>1.45 *</b>	<b>(1.05, 1.96)</b>	<b>3863</b>	<b>1.03 *</b>	
<b>NYP Hospital - Columbia Presbyterian</b>									
##Aboufares A	104	3	2.88	1.57	1.90	(0.38, 5.56)	85	2.74	
#Apfelbaum M	29	0	0.00	0.45	0.00	(0.00,29.31)	28	0.00	
##Bliagos D	310	1	0.32	1.15	0.29	(0.00, 1.61)	298	0.25	
#Brogno D	292	4	1.37	0.52	2.73	(0.73, 6.99)	289	2.19	
Collins M	447	6	1.34	1.48	0.94	(0.34, 2.05)	422	0.52	
##Dominguez-Echeva	195	0	0.00	0.75	0.00	(0.00, 2.60)	194	0.00	
Goyal N	23	0	0.00	0.65	0.00	(0.00,25.51)	23	0.00	
Gray W	108	2	1.85	2.64	0.73	(0.08, 2.62)	78	0.72	
##Hassid B	38	0	0.00	1.77	0.00	(0.00, 5.64)	35	0.00	
##Hjemdahl-Monsen	229	3	1.31	1.21	1.12	(0.23, 3.27)	215	0.59	
#Irobunda C	151	1	0.66	1.21	0.57	(0.01, 3.15)	136	0.00	
##Johnson M	65	0	0.00	0.60	0.00	(0.00, 9.69)	65	0.00	
##Kalapatapu K	309	5	1.62	1.24	1.35	(0.44, 3.15)	295	0.53	



Table 4, *continued*

	Cases	Deaths	OMR	All Cases		95% CI for RAMR	Non-emergency	
				EMR	RAMR		Cases	RAMR
##Kesanakurthy S	149	1	0.67	0.71	0.99	(0.01, 5.49)	148	0.77
Kirtane A	467	3	0.64	1.55	0.43	(0.09, 1.26)	411	0.36
#Kodali S	318	9	2.83	2.26	1.30	(0.59, 2.46)	282	0.87
Kreps E	109	3	2.75	1.87	1.53	(0.31, 4.47)	99	1.25
Leon M	136	1	0.74	0.90	0.85	(0.01, 4.72)	136	0.63
#Moses J	1224	3	0.25	0.55	0.46	(0.09, 1.34)	1220	0.36
Parikh M	889	2	0.22	0.74	0.31	(0.04, 1.13)	855	0.28
#Perry-Bottinger L	47	0	0.00	0.34	0.00	(0.00,23.68)	47	0.00
#Pucillo A	186	0	0.00	0.76	0.00	(0.00, 2.68)	172	0.00
##Puma A	17	0	0.00	0.34	0.00	(0.00,65.58)	17	0.00
Rabbani L	625	4	0.64	0.87	0.76	(0.21, 1.95)	567	0.55
##Rentrop K	73	0	0.00	0.28	0.00	(0.00,18.69)	73	0.00
##Sehhat K	118	0	0.00	0.43	0.00	(0.00, 7.46)	118	0.00
##Sherman W	124	2	1.61	2.04	0.82	(0.09, 2.96)	94	0.00
#Singh V	706	2	0.28	0.59	0.50	(0.06, 1.79)	690	0.30
#Stathopoulos I	149	0	0.00	0.47	0.00	(0.00, 5.49)	148	0.00
Stone G	23	0	0.00	1.28	0.00	(0.00,12.93)	23	0.00
Weinberger J	51	0	0.00	0.51	0.00	(0.00,14.57)	50	0.00
Weisz G	311	3	0.96	1.45	0.69	(0.14, 2.02)	270	0.57
Williams M	145	2	1.38	2.29	0.62	(0.07, 2.26)	118	0.76
All Others	175	5	2.86	2.89	1.03	(0.33, 2.40)	123	0.73
<b>TOTAL</b>	<b>8342</b>	<b>65</b>	<b>0.78</b>	<b>1.06</b>	<b>0.76 **</b>	<b>(0.59, 0.97)</b>	<b>7824</b>	<b>0.52</b>
<b>NYP Hospital - Weill Cornell</b>								
##Aboufares A	17	0	0.00	0.75	0.00	(0.00,29.77)	17	0.00
Bergman G	508	8	1.57	1.74	0.94	(0.40, 1.85)	448	0.58
##Charney R	292	2	0.68	1.04	0.68	(0.08, 2.46)	287	0.42
Feldman D	521	4	0.77	1.48	0.54	(0.14, 1.38)	429	0.34
#Gade C	30	0	0.00	0.55	0.00	(0.00,23.05)	30	0.00
##Kesanakurthy S	303	7	2.31	0.68	3.54 *	(1.42, 7.29)	299	2.51 *
Kim L	297	8	2.69	2.16	1.29	(0.56, 2.55)	237	0.82
##Messinger D	133	3	2.26	1.48	1.58	(0.32, 4.60)	129	0.94
Minutello R	571	13	2.28	1.59	1.48	(0.79, 2.53)	485	0.99
#Moses J	53	0	0.00	0.71	0.00	(0.00,10.04)	53	0.00
Sharma A	182	2	1.10	1.18	0.97	(0.11, 3.50)	172	0.55
#Slotwiner A	183	1	0.55	1.93	0.29	(0.00, 1.63)	151	0.26
##Wilentz J	128	0	0.00	0.36	0.00	(0.00, 8.24)	128	0.00
Wong S	621	11	1.77	0.88	2.09 *	(1.04, 3.74)	582	1.46
##Yang Y	80	0	0.00	0.33	0.00	(0.00,14.31)	80	0.00
All Others	182	5	2.75	2.17	1.31	(0.42, 3.06)	141	0.63
<b>TOTAL</b>	<b>4101</b>	<b>64</b>	<b>1.56</b>	<b>1.36</b>	<b>1.19</b>	<b>(0.92, 1.52)</b>	<b>3668</b>	<b>0.80</b>
<b>NYU Hospitals Center</b>								
##Attubato M	1066	6	0.56	0.86	0.68	(0.25, 1.48)	1025	0.29
##Babaev A	531	2	0.38	0.53	0.73	(0.08, 2.64)	524	0.67
#Bangalore S	19	0	0.00	1.24	0.00	(0.00,16.17)	13	0.00
##Coppola J	164	1	0.61	0.47	1.35	(0.02, 7.53)	154	0.00
#David M	2	0	0.00	0.48	0.00	(0.00,100.0)	2	0.00
##Feit F	576	2	0.35	0.46	0.78	(0.09, 2.83)	550	0.29
##Iqbal S	30	0	0.00	0.88	0.00	(0.00,14.38)	19	0.00
#Jayasundera T	168	0	0.00	0.27	0.00	(0.00, 8.46)	168	0.00
Kokolis S	18	0	0.00	1.26	0.00	(0.00,16.77)	16	0.00
#Kurian D	10	1	10.00	0.60	17.22	(0.23,95.82)	9	29.89
#Lee J	4	0	0.00	0.15	0.00	(0.00,100.0)	4	0.00
#Liou M	104	0	0.00	0.34	0.00	(0.00,10.62)	104	0.00
#Miller L	10	1	10.00	1.40	7.42	(0.10,41.27)	5	11.86
#Nguyen T	29	0	0.00	0.27	0.00	(0.00,49.44)	29	0.00
##Papadacos S	37	2	5.41	0.41	13.53 *	(1.52,48.84)	37	8.13 *
##Rentrop K	4	0	0.00	0.12	0.00	(0.00,100.0)	4	0.00
##Seldon M	7	0	0.00	0.21	0.00	(0.00,100.0)	7	0.00
##Serrano-Gomez C	69	1	1.45	0.60	2.49	(0.03,13.85)	64	2.67
##Shah A	11	0	0.00	0.26	0.00	(0.00,100.0)	11	0.00
Slater A	11	0	0.00	0.36	0.00	(0.00,96.82)	11	0.00
##Slater J	446	5	1.12	0.57	2.06	(0.66, 4.80)	413	1.21
##Srivastava S	67	0	0.00	0.26	0.00	(0.00,21.84)	67	0.00

Table 4, continued

	Cases	Deaths	OMR	All Cases		95% CI for RAMR	Non-emergency	
				EMR	RAMR		Cases	RAMR
##Staniloae C	105	0	0.00	0.53	0.00	(0.00, 6.82)	101	0.00
##Yadav S	3	0	0.00	0.17	0.00	(0.00,100.0)	3	0.00
##Yatskar L	55	0	0.00	0.30	0.00	(0.00,22.83)	52	0.00
All Others	34	1	2.94	1.16	2.64	(0.03,14.69)	25	2.72
<b>TOTAL</b>	<b>3580</b>	<b>22</b>	<b>0.61</b>	<b>0.61</b>	<b>1.05</b>	<b>(0.66, 1.59)</b>	<b>3417</b>	<b>0.61</b>
<b>NewYork-Presbyterian Queens</b>								
Chiu Sungkin	57	0	0.00	0.31	0.00	(0.00,21.31)	57	0.00
Chiu Sungwai	56	0	0.00	0.37	0.00	(0.00,18.28)	56	0.00
#David M	86	0	0.00	0.28	0.00	(0.00,15.60)	86	0.00
##Dhama B	1	0	0.00	0.07	0.00	(0.00,100.0)	1	0.00
##Friedman G H	27	0	0.00	1.53	0.00	(0.00, 9.18)	20	0.00
Geizhals M	74	1	1.35	1.31	1.07	(0.01, 5.95)	45	0.00
##Grunwald A	64	1	1.56	1.44	1.13	(0.01, 6.28)	39	1.63
#Gupta R	98	1	1.02	0.84	1.26	(0.02, 7.01)	93	0.91
Gustafson G	294	2	0.68	0.84	0.84	(0.09, 3.04)	229	1.31
##Hameedi A	27	0	0.00	0.16	0.00	(0.00,86.50)	27	0.00
#Hasan C	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
##Koss J	39	1	2.56	1.79	1.49	(0.02, 8.27)	22	0.00
Lee H	33	0	0.00	0.26	0.00	(0.00,44.42)	33	0.00
Moustakakis E	428	3	0.70	1.09	0.66	(0.13, 1.94)	258	0.59
##Papadakos S	176	3	1.70	1.51	1.17	(0.23, 3.41)	135	1.14
Park C	449	4	0.89	0.72	1.28	(0.34, 3.27)	349	1.19
#Perry-Bottinger L	2	0	0.00	1.18	0.00	(0.00,100.0)	2	0.00
All Others	3	0	0.00	0.13	0.00	(0.00,100.0)	3	0.00
<b>TOTAL</b>	<b>1915</b>	<b>16</b>	<b>0.84</b>	<b>0.92</b>	<b>0.94</b>	<b>(0.54, 1.52)</b>	<b>1456</b>	<b>0.92</b>
<b>North Shore University Hospital</b>								
##Arkonac B	20	1	5.00	2.74	1.89	(0.02,10.53)	.	.
##Bagga R	2	0	0.00	1.44	0.00	(0.00,100.0)	2	0.00
#Blumenthal S	87	0	0.00	0.36	0.00	(0.00,12.03)	86	0.00
#Boutis L	735	6	0.82	1.25	0.68	(0.25, 1.47)	543	0.43
##Deutsch E	1	0	0.00	0.07	0.00	(0.00,100.0)	1	0.00
##Dhama B	114	2	1.75	0.93	1.95	(0.22, 7.04)	108	1.28
#Freeman J	3	0	0.00	2.70	0.00	(0.00,47.03)	3	0.00
##Friedman G H	55	0	0.00	0.79	0.00	(0.00, 8.81)	51	0.00
#Gambino A	2	1	50.00	0.33	100.00 *	(2.04,100.0)	2	58.46 *
##Green S	323	0	0.00	1.24	0.00 **	(0.00, 0.95)	231	0.00
##Grunwald A	98	0	0.00	0.75	0.00	(0.00, 5.17)	88	0.00
##Hameedi A	2	0	0.00	0.65	0.00	(0.00,100.0)	2	0.00
##Hormozi S	18	0	0.00	0.25	0.00	(0.00,85.29)	18	0.00
#Jauhar R	40	0	0.00	1.88	0.00	(0.00, 5.05)	.	.
#Kaplan B	207	1	0.48	1.13	0.44	(0.01, 2.46)	159	0.49
#Katz S	299	2	0.67	1.06	0.65	(0.07, 2.35)	229	0.49
##Kim M	222	4	1.80	1.49	1.26	(0.34, 3.22)	173	0.93
##Koss J	89	0	0.00	0.78	0.00	(0.00, 5.51)	78	0.00
Kruger A	157	1	0.64	0.85	0.78	(0.01, 4.32)	144	0.64
#Lederman S	4	0	0.00	0.24	0.00	(0.00,100.0)	4	0.00
#Lee A	408	4	0.98	1.52	0.67	(0.18, 1.71)	281	0.71
#Marchant D	179	2	1.12	1.75	0.66	(0.07, 2.39)	113	0.69
#Meraj P	14	1	7.14	1.69	4.38	(0.06,24.34)	1	0.00
##Ong L Y	306	1	0.33	0.99	0.34	(0.00, 1.90)	267	0.40
##Papadakos S	272	0	0.00	0.56	0.00	(0.00, 2.48)	269	0.00
##Patcha R	44	0	0.00	0.64	0.00	(0.00,13.41)	42	0.00
##Polena S	11	0	0.00	0.71	0.00	(0.00,48.98)	11	0.00
#Rutkin B	271	3	1.11	1.26	0.91	(0.18, 2.66)	193	0.43
#Schwartz R	7	0	0.00	0.21	0.00	(0.00,100.0)	7	0.00
##Strizik B	189	2	1.06	1.02	1.07	(0.12, 3.87)	173	0.86
#Vidyarthi V	4	0	0.00	0.39	0.00	(0.00,100.0)	4	0.00
#Witkes D	122	0	0.00	0.46	0.00	(0.00, 6.72)	117	0.00
All Others	202	2	0.99	0.60	1.70	(0.19, 6.14)	190	1.15
<b>TOTAL</b>	<b>4507</b>	<b>33</b>	<b>0.73</b>	<b>1.10</b>	<b>0.69 **</b>	<b>(0.47, 0.97)</b>	<b>3590</b>	<b>0.54</b>
<b>Olean General Hospital</b>								
##Chockalingam S	2	0	0.00	0.29	0.00	(0.00,100.0)	1	0.00
All Others	23	0	0.00	0.67	0.00	(0.00,24.80)	14	0.00
<b>TOTAL</b>	<b>25</b>	<b>0</b>	<b>0.00</b>	<b>0.64</b>	<b>0.00</b>	<b>(0.00,23.90)</b>	<b>15</b>	<b>0.00</b>

Table 4, *continued*

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
<b>Orange Regional Medical Center</b>								
#Agarwal A	37	0	0.00	0.35	0.00	(0.00,29.69)	37	0.00
##Cuomo L	2	0	0.00	0.13	0.00	(0.00,100.0)	1	0.00
##Gotsis W	593	2	0.34	0.85	0.41	(0.05, 1.49)	467	0.50
##Kalapatapu K	254	2	0.79	0.89	0.92	(0.10, 3.32)	250	0.56
#Shapira S	403	6	1.49	1.18	1.31	(0.48, 2.84)	304	0.31
##Silverman G	338	2	0.59	0.88	0.69	(0.08, 2.51)	227	0.56
#Timmermans R	2	0	0.00	1.17	0.00	(0.00,100.0)	2	0.00
<b>TOTAL</b>	<b>1629</b>	<b>12</b>	<b>0.74</b>	<b>0.93</b>	<b>0.82</b>	<b>(0.42, 1.43)</b>	<b>1288</b>	<b>0.47</b>
<b>Rochester General Hospital</b>								
##Chockalingam S	256	4	1.56	1.04	1.56	(0.42, 4.00)	214	0.44
##Doling M	2	0	0.00	0.35	0.00	(0.00,100.0)	2	0.00
Fitzpatrick P	295	3	1.02	1.08	0.98	(0.20, 2.86)	206	1.19
Gacioch G	643	6	0.93	1.00	0.97	(0.35, 2.11)	413	0.00
Mathew T M	154	1	0.65	0.52	1.29	(0.02, 7.20)	138	0.00
#Ong L S	1421	21	1.48	0.98	1.57	(0.97, 2.40)	1253	0.78
#Patel T	237	5	2.11	1.11	1.97	(0.64, 4.60)	223	1.23
Scortichini D	164	0	0.00	0.42	0.00	(0.00, 5.59)	157	0.00
#Singer G	369	1	0.27	0.73	0.39	(0.01, 2.15)	341	0.29
#Stefek P	16	0	0.00	0.29	0.00	(0.00,81.67)	16	0.00
Stuver T	1204	12	1.00	0.96	1.08	(0.56, 1.89)	868	0.68
All Others	63	2	3.17	1.83	1.80	(0.20, 6.51)	42	1.87
<b>TOTAL</b>	<b>4824</b>	<b>55</b>	<b>1.14</b>	<b>0.95</b>	<b>1.25</b>	<b>(0.94, 1.63)</b>	<b>3873</b>	<b>0.66</b>
<b>Samaritan Hospital</b>								
#Bishop G	6	0	0.00	0.89	0.00	(0.00,71.06)	2	0.00
##Brady S	70	0	0.00	0.65	0.00	(0.00, 8.42)	52	0.00
##Delago A	23	0	0.00	0.73	0.00	(0.00,22.55)	10	0.00
##Esper D	14	0	0.00	1.00	0.00	(0.00,27.07)	3	0.00
##Khawaja H	8	1	12.50	1.56	8.31	(0.11,46.24)	6	0.00
#Martinelli M	5	0	0.00	0.57	0.00	(0.00,100.0)	1	0.00
##Papaleo R	278	2	0.72	0.49	1.52	(0.17, 5.48)	220	1.83
##Papandrea L	2	0	0.00	0.16	0.00	(0.00,100.0)	2	0.00
#Roccario E	1	1	100.00	5.40	19.19	(0.25,100.0)	.	.
All Others	4	0	0.00	1.52	0.00	(0.00,62.36)	.	.
<b>TOTAL</b>	<b>411</b>	<b>4</b>	<b>0.97</b>	<b>0.60</b>	<b>1.69</b>	<b>(0.46, 4.33)</b>	<b>296</b>	<b>1.26</b>
<b>South Nassau Communities Hospital</b>								
#Berke A	6	1	16.67	25.85	0.67	(0.01, 3.72)	.	.
#Freeman J	843	7	0.83	0.84	1.02	(0.41, 2.10)	665	0.57
##Hormozi S	31	0	0.00	1.66	0.00	(0.00, 7.37)	10	0.00
#Lituchy A	10	0	0.00	1.40	0.00	(0.00,27.18)	3	0.00
#Petrossian G	56	1	1.79	0.41	4.52	(0.06,25.13)	55	3.40
#Rehman A	361	5	1.39	0.98	1.46	(0.47, 3.41)	245	1.90
##Zisfein J	363	1	0.28	0.82	0.35	(0.00, 1.94)	312	0.00
All Others	43	0	0.00	0.76	0.00	(0.00,11.68)	40	0.00
<b>TOTAL</b>	<b>1713</b>	<b>15</b>	<b>0.88</b>	<b>0.96</b>	<b>0.95</b>	<b>(0.53, 1.56)</b>	<b>1330</b>	<b>0.67</b>
<b>Southside Hospital</b>								
##Arkonac B	168	3	1.79	1.73	1.07	(0.22, 3.13)	157	0.74
##Caselnova R	50	0	0.00	0.75	0.00	(0.00,10.17)	28	0.00
##Deutsch E	357	1	0.28	0.60	0.48	(0.01, 2.70)	329	0.00
##Hormozi S	360	5	1.39	0.89	1.63	(0.52, 3.80)	302	1.14
##Lee P J	351	1	0.28	0.76	0.39	(0.01, 2.16)	320	0.34
##Ong L Y	2	0	0.00	0.08	0.00	(0.00,100.0)	2	0.00
##Patel R B	190	6	3.16	1.05	3.12 *	(1.14, 6.78)	145	3.32 *
##Reich D	312	4	1.28	1.15	1.15	(0.31, 2.96)	276	0.00
All Others	54	0	0.00	1.11	0.00	(0.00, 6.37)	46	0.00
<b>TOTAL</b>	<b>1844</b>	<b>20</b>	<b>1.08</b>	<b>0.95</b>	<b>1.19</b>	<b>(0.73, 1.83)</b>	<b>1605</b>	<b>0.76</b>
<b>St. Barnabas Hospital</b>								
##Amsalem Y	3	1	33.33	22.35	1.55	(0.02, 8.60)	.	.
##Celaj S	258	2	0.78	0.87	0.92	(0.10, 3.34)	220	0.39
##Greenberg M	16	1	6.25	1.41	4.60	(0.06,25.61)	4	0.00
##Johnson M	2	0	0.00	1.03	0.00	(0.00,100.0)	.	.

Table 4, *continued*

	Cases	Deaths	OMR	All Cases		95% CI for RAMR	Non-emergency	
				EMR	RAMR		Cases	RAMR
##Menegus M	14	0	0.00	1.18	0.00	(0.00,23.04)	1	0.00
##Srinivas V	2	0	0.00	1.24	0.00	(0.00,100.0)	1	0.00
All Others	3	0	0.00	1.16	0.00	(0.00,100.0)	1	0.00
<b>TOTAL</b>	<b>298</b>	<b>4</b>	<b>1.34</b>	<b>1.14</b>	<b>1.23</b>	<b>(0.33, 3.14)</b>	<b>227</b>	<b>0.38</b>
<b>St. Catherine of Siena Hospital</b>								
##Deutsch E	173	1	0.58	0.90	0.67	(0.01, 3.72)	141	0.79
##Hormozi S	170	0	0.00	1.22	0.00	(0.00, 1.83)	135	0.00
#Khan S	70	1	1.43	1.57	0.94	(0.01, 5.24)	44	0.00
#Madrid A	6	0	0.00	0.90	0.00	(0.00,70.47)	.	.
#Patel N	16	0	0.00	1.07	0.00	(0.00,22.15)	14	0.00
##Patel R B	169	2	1.18	0.87	1.42	(0.16, 5.11)	144	0.88
##Rosenband M	114	0	0.00	1.11	0.00	(0.00, 3.02)	90	0.00
#Tsiamtsiouris T	7	0	0.00	1.41	0.00	(0.00,38.61)	.	.
#Weinstein J	77	1	1.30	0.98	1.37	(0.02, 7.64)	47	0.00
<b>TOTAL</b>	<b>802</b>	<b>5</b>	<b>0.62</b>	<b>1.06</b>	<b>0.61</b>	<b>(0.20, 1.42)</b>	<b>615</b>	<b>0.33</b>
<b>St. Elizabeth Medical Center</b>								
#Kelberman M	298	2	0.67	0.85	0.82	(0.09, 2.96)	245	0.77
##Kozman H	1	0	0.00	1.10	0.00	(0.00,100.0)	.	.
#Maclsaac H	564	12	2.13	1.70	1.30	(0.67, 2.27)	474	0.54
#Mathew T C	35	0	0.00	0.93	0.00	(0.00,11.75)	24	0.00
#Nassif R	20	1	5.00	0.94	5.52	(0.07,30.69)	13	0.00
#Patel A	259	1	0.39	1.23	0.33	(0.00, 1.81)	202	0.75
#Sassower M	805	11	1.37	1.00	1.42	(0.71, 2.54)	695	0.94
#Varma P	226	4	1.77	1.55	1.18	(0.32, 3.02)	170	0.52
All Others	20	0	0.00	0.67	0.00	(0.00,28.58)	17	0.00
<b>TOTAL</b>	<b>2228</b>	<b>31</b>	<b>1.39</b>	<b>1.23</b>	<b>1.17</b>	<b>(0.79, 1.66)</b>	<b>1840</b>	<b>0.70</b>
<b>St. Francis Hospital</b>								
Abittan M	299	3	1.00	0.69	1.51	(0.30, 4.41)	290	1.11
#Berke A	235	3	1.28	1.72	0.77	(0.15, 2.25)	209	0.79
##Deutsch E	4	0	0.00	3.24	0.00	(0.00,29.34)	4	0.00
Ezratty A	167	3	1.80	1.25	1.49	(0.30, 4.34)	137	0.75
##Friedman G H	203	0	0.00	0.81	0.00	(0.00, 2.32)	167	0.00
Goldman A B	72	1	1.39	1.21	1.19	(0.02, 6.61)	48	0.00
##Grunwald A	81	3	3.70	1.25	3.08	(0.62, 9.00)	66	1.37
Gulotta R	138	2	1.45	0.91	1.66	(0.19, 5.98)	131	1.47
##Koss J	79	2	2.53	1.27	2.06	(0.23, 7.45)	51	2.19
##Lee P J	33	1	3.03	0.80	3.94	(0.05,21.94)	33	2.33
#Lituchy A	526	3	0.57	1.09	0.55	(0.11, 1.59)	489	0.29
#Madrid A	196	3	1.53	0.90	1.77	(0.36, 5.17)	176	0.70
Mezzafonte S	374	4	1.07	1.09	1.02	(0.27, 2.61)	316	0.94
Minadeo J	156	4	2.56	2.21	1.20	(0.32, 3.08)	110	0.91
Oruci E	155	3	1.94	0.79	2.55	(0.51, 7.44)	142	1.44
Pappas T	304	0	0.00	0.95	0.00	(0.00, 1.31)	292	0.00
##Patcha R	19	1	5.26	0.78	6.97	(0.09,38.77)	18	4.85
#Petrossian G	851	6	0.71	1.02	0.72	(0.26, 1.57)	829	0.54
#Rehman A	114	2	1.75	1.07	1.71	(0.19, 6.16)	107	1.33
##Reich D	51	0	0.00	0.39	0.00	(0.00,18.95)	51	0.00
##Rosenband M	1	0	0.00	1.05	0.00	(0.00,100.0)	1	0.00
Shlofmitz R	2526	13	0.51	0.62	0.86	(0.46, 1.47)	2483	0.54
#Tsiamtsiouris T	344	3	0.87	1.54	0.59	(0.12, 1.72)	291	0.52
Venditto J	161	0	0.00	0.97	0.00	(0.00, 2.43)	145	0.00
#Vidyarathi V	4	0	0.00	0.15	0.00	(0.00,100.0)	4	0.00
##Yadav S	28	1	3.57	1.08	3.42	(0.04,19.01)	24	2.37
##Zisfein J	28	0	0.00	1.23	0.00	(0.00,11.04)	28	0.00
All Others	81	3	3.70	1.92	2.00	(0.40, 5.84)	58	0.00
<b>TOTAL</b>	<b>7230</b>	<b>64</b>	<b>0.89</b>	<b>0.95</b>	<b>0.97</b>	<b>(0.75, 1.24)</b>	<b>6700</b>	<b>0.62</b>
<b>St. Josephs Hospital</b>								
#Bhan R	341	4	1.17	0.68	1.78	(0.48, 4.56)	301	0.82
Caputo R	1297	10	0.77	1.07	0.75	(0.36, 1.38)	1026	0.65
El-Khally Z	1278	8	0.63	1.07	0.61	(0.26, 1.20)	1070	0.49
Fischi M	1110	9	0.81	1.04	0.81	(0.37, 1.53)	871	0.67

Table 4, continued

	Cases	Deaths	OMR	All Cases		95% CI for RAMR	Non-emergency	
				EMR	RAMR		Cases	RAMR
Giambartolomei A	192	6	3.13	1.14	2.85 *	(1.04, 6.19)	135	3.19 *
Iskander A	905	12	1.33	1.30	1.06	(0.55, 1.85)	692	0.63
O'Hern M	412	6	1.46	1.07	1.41	(0.52, 3.07)	318	0.52
Reger M	140	1	0.71	0.57	1.29	(0.02, 7.18)	136	0.98
Simons A	608	2	0.33	0.79	0.43	(0.05, 1.56)	421	0.63
<b>TOTAL</b>	<b>6283</b>	<b>58</b>	<b>0.92</b>	<b>1.04</b>	<b>0.92</b>	<b>(0.70, 1.19)</b>	<b>4970</b>	<b>0.69</b>
<b>St. Lukes Cornwall Hospital - Newburgh</b>								
#Gosselin R	183	2	1.09	0.85	1.33	(0.15, 4.79)	134	0.82
#Hadid A	282	6	2.13	1.24	1.78	(0.65, 3.87)	232	1.52
Hadid A B	167	0	0.00	1.08	0.00	(0.00, 2.10)	122	0.00
#Jafar M	14	0	0.00	0.33	0.00	(0.00,82.30)	14	0.00
#Shah N	270	5	1.85	2.07	0.93	(0.30, 2.17)	216	0.52
<b>TOTAL</b>	<b>916</b>	<b>13</b>	<b>1.42</b>	<b>1.36</b>	<b>1.08</b>	<b>(0.57, 1.84)</b>	<b>718</b>	<b>0.81</b>
<b>St. Peters Hospital</b>								
#Bishop G	343	6	1.75	1.34	1.35	(0.49, 2.95)	218	0.69
##Brady S	106	3	2.83	0.52	5.65 *	(1.13,16.50)	94	2.85
##Delago A	61	1	1.64	2.52	0.67	(0.01, 3.75)	49	0.00
##Esper D	359	1	0.28	0.99	0.29	(0.00, 1.63)	319	0.33
##Khawaja H	53	0	0.00	0.95	0.00	(0.00, 7.52)	42	0.00
#Martinelli M	520	6	1.15	0.86	1.39	(0.51, 3.03)	388	1.31
##Papaleo R	15	0	0.00	0.75	0.00	(0.00,33.95)	6	0.00
##Papandrea L	73	2	2.74	0.59	4.84	(0.54,17.47)	67	3.31
#Roccario E	519	6	1.16	1.43	0.84	(0.31, 1.82)	345	0.52
All Others	103	3	2.91	1.14	2.64	(0.53, 7.71)	74	1.22
<b>TOTAL</b>	<b>2152</b>	<b>28</b>	<b>1.30</b>	<b>1.13</b>	<b>1.19</b>	<b>(0.79, 1.72)</b>	<b>1602</b>	<b>0.88</b>
<b>Staten Island University Hospital- North</b>								
Duvvuri S	300	3	1.00	1.09	0.95	(0.19, 2.77)	243	0.00
Farid A	177	3	1.69	0.42	4.16	(0.84,12.15)	161	1.79
Gala B	192	2	1.04	1.12	0.96	(0.11, 3.47)	162	0.60
##Hoyek W	161	1	0.62	0.90	0.72	(0.01, 4.00)	137	0.00
##Kandov R	297	5	1.68	1.69	1.03	(0.33, 2.41)	214	0.82
Malpeso J	228	5	2.19	1.55	1.47	(0.47, 3.42)	157	1.15
McCord D	231	2	0.87	0.51	1.77	(0.20, 6.38)	225	1.23
Motivala A	114	0	0.00	0.61	0.00	(0.00, 5.48)	110	0.00
##Royzman R	184	3	1.63	1.61	1.05	(0.21, 3.06)	111	1.75
Snyder S	177	6	3.39	1.07	3.27 *	(1.20, 7.12)	141	1.93
Swamy S	88	0	0.00	0.44	0.00	(0.00, 9.92)	87	0.00
Tamburrino F	502	5	1.00	1.13	0.92	(0.30, 2.14)	440	0.00
Vazzana T	68	0	0.00	0.37	0.00	(0.00,15.29)	67	0.00
Warchol A	60	1	1.67	1.00	1.72	(0.02, 9.57)	43	0.00
Zgheib M	119	2	1.68	0.76	2.31	(0.26, 8.33)	117	0.71
All Others	9	0	0.00	0.42	0.00	(0.00,100.0)	9	0.00
<b>TOTAL</b>	<b>2907</b>	<b>38</b>	<b>1.31</b>	<b>1.06</b>	<b>1.28</b>	<b>(0.91, 1.76)</b>	<b>2424</b>	<b>0.66</b>
<b>Strong Memorial Hospital</b>								
Chaudhary I	209	5	2.39	1.87	1.33	(0.43, 3.10)	104	3.48 *
Cove C	461	9	1.95	1.46	1.39	(0.63, 2.64)	317	1.65
##Doling M	650	8	1.23	1.04	1.23	(0.53, 2.42)	508	0.83
Garringer J	202	1	0.50	0.96	0.54	(0.01, 2.98)	150	0.00
Gassler J	369	1	0.27	1.12	0.25	(0.00, 1.40)	223	0.00
#Ling F	426	5	1.17	1.43	0.85	(0.27, 1.98)	283	0.34
#Narins C	477	4	0.84	0.80	1.09	(0.29, 2.79)	314	0.73
<b>TOTAL</b>	<b>2794</b>	<b>33</b>	<b>1.18</b>	<b>1.19</b>	<b>1.03</b>	<b>(0.71, 1.44)</b>	<b>1899</b>	<b>0.87</b>
<b>UHS - Wilson Medical Center</b>								
Ahmed O	274	4	1.46	1.46	1.04	(0.28, 2.66)	168	0.63
Jamal N	498	8	1.61	2.38	0.70	(0.30, 1.38)	369	0.98
Kashou H	566	8	1.41	0.93	1.58	(0.68, 3.11)	460	1.28
Rehman A U	172	0	0.00	1.59	0.00	(0.00, 1.39)	107	0.00
Stamato N	235	5	2.13	1.73	1.28	(0.41, 2.98)	161	0.74
Traverse P	374	3	0.80	1.02	0.81	(0.16, 2.38)	287	0.80
<b>TOTAL</b>	<b>2119</b>	<b>28</b>	<b>1.32</b>	<b>1.50</b>	<b>0.92</b>	<b>(0.61, 1.32)</b>	<b>1552</b>	<b>0.89</b>

Table 4, continued

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
<b>Unity Hospital of Rochester</b>								
##Chockalingam S	86	4	4.65	1.52	3.18	(0.85, 8.13)	52	7.45 *
##Doling M	2	0	0.00	0.17	0.00	(0.00,100.0)	2	0.00
#Ling F	1	0	0.00	0.19	0.00	(0.00,100.0)	1	0.00
#Narins C	1	0	0.00	0.29	0.00	(0.00,100.0)	1	0.00
#Ong L S	38	1	2.63	1.07	2.55	(0.03,14.21)	24	0.00
#Patel T	648	13	2.01	1.28	1.63	(0.87, 2.79)	482	0.99
#Singer G	46	3	6.52	1.83	3.70	(0.74,10.80)	36	1.45
<b>TOTAL</b>	<b>822</b>	<b>21</b>	<b>2.55</b>	<b>1.32</b>	<b>2.01*</b>	<b>(1.24, 3.07)</b>	<b>598</b>	<b>1.66 *</b>
<b>University Hospital - Brooklyn</b>								
#Badero O	24	0	0.00	0.40	0.00	(0.00,40.10)	23	0.00
#Bhambhani G	21	0	0.00	0.28	0.00	(0.00,65.76)	21	0.00
#Castillo R	26	2	7.69	3.45	2.31	(0.26, 8.34)	1	0.00
Cavusoglu E	236	5	2.12	1.23	1.79	(0.58, 4.17)	175	1.10
#Chadow H	24	1	4.17	1.55	2.79	(0.04,15.50)	4	0.00
#Dogar M	56	0	0.00	2.70	0.00	(0.00, 2.52)	46	0.00
Feit A	201	5	2.49	1.05	2.46	(0.79, 5.75)	148	0.00
#Hegde S	48	1	2.08	1.25	1.73	(0.02, 9.62)	18	0.00
#Jasty B	9	0	0.00	0.20	0.00	(0.00,100.0)	9	0.00
##John S	135	1	0.74	1.12	0.68	(0.01, 3.81)	116	0.00
##Kantrowitz N	4	0	0.00	0.91	0.00	(0.00,100.0)	4	0.00
Marmur J	295	3	1.02	1.21	0.87	(0.17, 2.54)	216	0.40
##Shohat E	29	0	0.00	0.28	0.00	(0.00,46.48)	29	0.00
All Others	3	0	0.00	0.14	0.00	(0.00,100.0)	3	0.00
<b>TOTAL</b>	<b>1111</b>	<b>18</b>	<b>1.62</b>	<b>1.24</b>	<b>1.35</b>	<b>(0.80, 2.14)</b>	<b>813</b>	<b>0.33</b>
<b>University Hospital - Brooklyn @ LICH</b>								
##Aslam A K	2	0	0.00	1.34	0.00	(0.00,100.0)	1	0.00
#Coven D	2	0	0.00	4.53	0.00	(0.00,41.99)	.	.
#Dogar M	20	0	0.00	2.01	0.00	(0.00, 9.44)	4	0.00
##Gowda R	184	2	1.09	1.49	0.75	(0.08, 2.72)	161	0.53
##Kantrowitz N	139	2	1.44	1.28	1.17	(0.13, 4.21)	95	1.42
#Kwan T	43	0	0.00	0.43	0.00	(0.00,20.75)	42	0.00
#Rosero H	15	0	0.00	0.59	0.00	(0.00,42.67)	12	0.00
##Srivastava S	3	0	0.00	1.95	0.00	(0.00,64.98)	3	0.00
All Others	22	0	0.00	0.31	0.00	(0.00,56.52)	22	0.00
<b>TOTAL</b>	<b>430</b>	<b>4</b>	<b>0.93</b>	<b>1.27</b>	<b>0.76</b>	<b>(0.20, 1.95)</b>	<b>340</b>	<b>0.63</b>
<b>University Hospital - SUNY Upstate</b>								
#Bhan R	76	0	0.00	0.41	0.00	(0.00,12.35)	66	0.00
Ford T	136	3	2.21	1.22	1.88	(0.38, 5.48)	79	1.21
#George A	2	0	0.00	0.21	0.00	(0.00,100.0)	2	0.00
##Kozman H	256	7	2.73	2.02	1.40	(0.56, 2.89)	149	1.65
Pratap T	33	3	9.09	5.22	1.81	(0.36, 5.28)	11	5.74
Siddiqui D	317	6	1.89	1.98	0.99	(0.36, 2.16)	208	0.91
<b>TOTAL</b>	<b>820</b>	<b>19</b>	<b>2.32</b>	<b>1.85</b>	<b>1.30</b>	<b>(0.78, 2.03)</b>	<b>515</b>	<b>1.25</b>
<b>University Hospital - Stony Brook</b>								
Chernilas J	281	7	2.49	1.63	1.58	(0.63, 3.26)	139	1.95
Dervan J	194	1	0.52	0.99	0.54	(0.01, 3.01)	183	0.39
Gruberg L	563	14	2.49	1.89	1.37	(0.75, 2.29)	315	0.91
Jeremias A	476	4	0.84	1.50	0.58	(0.16, 1.48)	244	0.60
Joseph S	138	1	0.72	0.89	0.85	(0.01, 4.71)	135	0.58
#Khan S	161	3	1.86	0.90	2.14	(0.43, 6.24)	152	1.60
Korlipara G	176	0	0.00	0.74	0.00	(0.00, 2.93)	167	0.00
Lawson W	467	13	2.78	1.66	1.74	(0.92, 2.97)	256	0.87
#Lederman S	216	2	0.93	1.14	0.84	(0.09, 3.03)	200	0.00
Mani A	575	12	2.09	1.72	1.26	(0.65, 2.20)	355	1.14
Montellese D	147	0	0.00	0.72	0.00	(0.00, 3.60)	133	0.00
#Patel N	222	3	1.35	0.78	1.79	(0.36, 5.23)	193	0.50
##Rosenband M	144	0	0.00	0.98	0.00	(0.00, 2.70)	136	0.00
#Weinstein J	390	3	0.77	1.10	0.72	(0.15, 2.11)	359	0.61
All Others	89	1	1.12	1.42	0.82	(0.01, 4.57)	51	1.99
<b>TOTAL</b>	<b>4239</b>	<b>64</b>	<b>1.51</b>	<b>1.37</b>	<b>1.14</b>	<b>(0.88, 1.46)</b>	<b>3018</b>	<b>0.73</b>

Table 4, continued

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
<b>Vassar Brothers Medical Center</b>								
Gorwara S	478	4	0.84	1.39	0.62	(0.17, 1.59)	332	0.24
#Gosselin R	56	1	1.79	1.19	1.56	(0.02, 8.69)	44	1.98
#Jafar M	694	10	1.44	1.02	1.47	(0.70, 2.70)	521	0.62
Kantaros L	370	4	1.08	1.12	1.00	(0.27, 2.57)	249	0.59
#Shah N	6	0	0.00	0.41	0.00	(0.00,100.0)	6	0.00
Yen M	379	6	1.58	1.03	1.59	(0.58, 3.47)	255	1.52
All Others	1	0	0.00	0.07	0.00	(0.00,100.0)	1	0.00
<b>TOTAL</b>	<b>1984</b>	<b>25</b>	<b>1.26</b>	<b>1.13</b>	<b>1.16</b>	<b>(0.75, 1.71)</b>	<b>1408</b>	<b>0.73</b>
<b>Westchester Medical Center</b>								
Ahmad H	187	4	2.14	1.28	1.73	(0.46, 4.42)	117	1.27
##Charney R	44	1	2.27	0.34	7.00	(0.09,38.96)	42	4.03
#Cohen M B	177	2	1.13	1.36	0.86	(0.10, 3.11)	126	0.00
##Cuomo L	291	2	0.69	1.60	0.45	(0.05, 1.61)	199	0.43
##Gotsis W	167	2	1.20	1.11	1.12	(0.13, 4.05)	107	0.00
#Hadid A	2	0	0.00	5.04	0.00	(0.00,37.72)	2	0.00
##Hjemdahl-Monsen	98	1	1.02	1.00	1.06	(0.01, 5.89)	85	0.88
##Kalapatapu K	138	2	1.45	0.89	1.68	(0.19, 6.08)	119	1.32
##Messinger D	36	1	2.78	0.83	3.49	(0.05,19.40)	36	2.07
#Pucillo A	72	2	2.78	1.32	2.18	(0.24, 7.88)	59	2.35
##Shih A T	102	1	0.98	1.01	1.01	(0.01, 5.62)	92	0.92
##Silverman G	82	3	3.66	1.17	3.25	(0.65, 9.51)	42	2.50
#Timmermans R	200	3	1.50	1.62	0.96	(0.19, 2.81)	121	0.00
All Others	30	0	0.00	1.95	0.00	(0.00, 6.49)	13	0.00
<b>TOTAL</b>	<b>1626</b>	<b>24</b>	<b>1.48</b>	<b>1.28</b>	<b>1.20</b>	<b>(0.77, 1.78)</b>	<b>1160</b>	<b>0.88</b>
<b>White Plains Hospital</b>								
#Apfelbaum M	93	1	1.08	2.39	0.47	(0.01, 2.60)	44	0.00
##Bliagos D	463	6	1.30	1.47	0.91	(0.33, 1.99)	393	0.91
##Charney R	26	1	3.85	1.31	3.05	(0.04,16.95)	18	0.00
#Cohen M B	29	0	0.00	0.42	0.00	(0.00,31.48)	25	0.00
##Cuomo L	10	0	0.00	0.55	0.00	(0.00,69.74)	10	0.00
##Hassid B	5	1	20.00	0.61	34.25	(0.45,100.0)	5	17.75
##Hjemdahl-Monsen	56	1	1.79	0.97	1.92	(0.03,10.66)	51	1.34
#Irobunda C	8	0	0.00	0.72	0.00	(0.00,65.85)	3	0.00
##Johnson M	11	0	0.00	1.44	0.00	(0.00,24.07)	3	0.00
##Kalapatapu K	96	0	0.00	1.06	0.00	(0.00, 3.73)	85	0.00
#Kodali S	3	0	0.00	0.37	0.00	(0.00,100.0)	2	0.00
##Messinger D	42	0	0.00	1.43	0.00	(0.00, 6.34)	32	0.00
##Sherman W	5	1	20.00	2.19	9.47	(0.12,52.69)	5	8.83
All Others	5	0	0.00	0.54	0.00	(0.00,100.0)	5	0.00
<b>TOTAL</b>	<b>852</b>	<b>11</b>	<b>1.29</b>	<b>1.42</b>	<b>0.94</b>	<b>(0.47, 1.69)</b>	<b>681</b>	<b>0.90</b>
<b>Winthrop-University Hospital</b>								
#Blumenthal S	3	0	0.00	0.48	0.00	(0.00,100.0)	3	0.00
##Caselnova R	192	4	2.08	1.27	1.71	(0.46, 4.37)	175	1.29
Donohue D	272	3	1.10	1.36	0.84	(0.17, 2.45)	215	0.40
#Gambino A	741	7	0.94	0.82	1.19	(0.48, 2.46)	663	0.53
##Green S	19	0	0.00	1.97	0.00	(0.00,10.16)	8	0.00
##Hormozi S	4	0	0.00	0.53	0.00	(0.00,100.0)	3	0.00
Marzo K	297	1	0.34	0.97	0.36	(0.00, 1.99)	240	0.00
#Musso J	9	0	0.00	0.20	0.00	(0.00,100.0)	9	0.00
Naidu S	318	4	1.26	1.54	0.85	(0.23, 2.17)	253	0.79
#Schwartz R	909	5	0.55	1.19	0.48	(0.15, 1.12)	801	0.33
#Witkes D	26	0	0.00	0.88	0.00	(0.00,16.65)	24	0.00
##Zisfein J	28	1	3.57	0.94	3.94	(0.05,21.94)	28	2.44
All Others	69	2	2.90	1.40	2.15	(0.24, 7.76)	58	1.92
<b>TOTAL</b>	<b>2887</b>	<b>27</b>	<b>0.94</b>	<b>1.13</b>	<b>0.86</b>	<b>(0.56, 1.24)</b>	<b>2480</b>	<b>0.59</b>
<b>Statewide Total</b>	<b>145247</b>	<b>1506</b>	<b>1.04</b>				<b>120807</b>	<b>0.68</b>

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

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

# Performed procedures in another NYS hospital.

## Performed procedures in two or more other NYS hospitals.

**Table 5****Summary Information for Cardiologists Practicing at More Than One Hospital, 2011–2013 Discharges** (Listed Alphabetically by Hospital)

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Aboufares A</b>	<b>272</b>	<b>5</b>	<b>1.84</b>	<b>1.19</b>	<b>1.60</b>	<b>(0.51, 3.73)</b>	<b>244</b>	<b>1.03</b>
Lenox Hill Hospital	151	2	1.32	0.98	1.40	(0.16, 5.04)	142	0.00
NYP-Columbia Presby.	104	3	2.88	1.57	1.90	(0.38, 5.56)	85	2.74
NYP-Weill Cornell	17	0	0.00	0.75	0.00	(0.00,29.77)	17	0.00
<b>Agarwal A</b>	<b>44</b>	<b>1</b>	<b>2.27</b>	<b>0.55</b>	<b>4.25</b>	<b>(0.06,23.65)</b>	<b>43</b>	<b>0.00</b>
Good Sam - Suffern	7	1	14.29	1.65	8.96	(0.12,49.82)	6	0.00
Orange Regional Med Ctr	37	0	0.00	0.35	0.00	(0.00,29.69)	37	0.00
<b>Amsalem Y</b>	<b>246</b>	<b>4</b>	<b>1.63</b>	<b>1.90</b>	<b>0.89</b>	<b>(0.24, 2.27)</b>	<b>180</b>	<b>0.45</b>
Bronx-Lebanon-Concourse	30	0	0.00	2.93	0.00	(0.00, 4.33)	7	0.00
Lenox Hill Hospital	46	2	4.35	1.53	2.95	(0.33,10.64)	37	1.96
Montefiore - Moses	167	1	0.60	1.45	0.43	(0.01, 2.39)	136	0.00
St. Barnabas Hospital	3	1	33.33	22.35	1.55	(0.02, 8.60)	.	.
<b>Apfelbaum M</b>	<b>122</b>	<b>1</b>	<b>0.82</b>	<b>1.93</b>	<b>0.44</b>	<b>(0.01, 2.46)</b>	<b>72</b>	<b>0.00</b>
NYP-Columbia Presby.	29	0	0.00	0.45	0.00	(0.00,29.31)	28	0.00
White Plains Hospital	93	1	1.08	2.39	0.47	(0.01, 2.60)	44	0.00
<b>Arkonac B</b>	<b>557</b>	<b>11</b>	<b>1.97</b>	<b>1.62</b>	<b>1.27</b>	<b>(0.63, 2.27)</b>	<b>468</b>	<b>0.77</b>
Long Island Jewish MC	369	7	1.90	1.51	1.31	(0.52, 2.69)	311	0.78
North Shore Univ Hosp	20	1	5.00	2.74	1.89	(0.02,10.53)	.	.
Southside Hospital	168	3	1.79	1.73	1.07	(0.22, 3.13)	157	0.74
<b>Aslam A K</b>	<b>471</b>	<b>2</b>	<b>0.42</b>	<b>0.23</b>	<b>1.92</b>	<b>(0.22, 6.93)</b>	<b>460</b>	<b>0.66</b>
Mount Sinai Beth Israel	150	1	0.67	0.23	3.00	(0.04,16.69)	145	0.00
NY Methodist Hospital	319	1	0.31	0.22	1.46	(0.02, 8.14)	314	0.96
Univ. Brooklyn @ LICH	2	0	0.00	1.34	0.00	(0.00,100.0)	1	0.00
<b>Attubato M</b>	<b>1126</b>	<b>7</b>	<b>0.62</b>	<b>0.87</b>	<b>0.74</b>	<b>(0.30, 1.53)</b>	<b>1073</b>	<b>0.27</b>
Bellevue Hospital Ctr	39	1	2.56	1.08	2.46	(0.03,13.66)	27	0.00
Lenox Hill Hospital	21	0	0.00	0.98	0.00	(0.00,18.49)	21	0.00
NYU Hospitals Center	1066	6	0.56	0.86	0.68	(0.25, 1.48)	1025	0.29
<b>Babaev A</b>	<b>550</b>	<b>2</b>	<b>0.36</b>	<b>0.61</b>	<b>0.62</b>	<b>(0.07, 2.24)</b>	<b>531</b>	<b>0.62</b>
Bellevue Hospital Ctr	13	0	0.00	3.35	0.00	(0.00, 8.72)	1	0.00
Lenox Hill Hospital	6	0	0.00	1.30	0.00	(0.00,48.68)	6	0.00
NYU Hospitals Center	531	2	0.38	0.53	0.73	(0.08, 2.64)	524	0.67
<b>Badero O</b>	<b>171</b>	<b>1</b>	<b>0.58</b>	<b>0.33</b>	<b>1.85</b>	<b>(0.02,10.30)</b>	<b>170</b>	<b>1.41</b>
NY Methodist Hospital	147	1	0.68	0.32	2.23	(0.03,12.39)	147	1.63
Univ. Hosp-Brooklyn	24	0	0.00	0.40	0.00	(0.00,40.10)	23	0.00
<b>Bagga R</b>	<b>403</b>	<b>2</b>	<b>0.50</b>	<b>0.90</b>	<b>0.57</b>	<b>(0.06, 2.07)</b>	<b>325</b>	<b>0.33</b>
Huntington Hospital	330	2	0.61	0.94	0.67	(0.08, 2.42)	253	0.48
Long Island Jewish MC	71	0	0.00	0.70	0.00	(0.00, 7.62)	70	0.00
North Shore Univ Hosp	2	0	0.00	1.44	0.00	(0.00,100.0)	2	0.00
<b>Bander J</b>	<b>218</b>	<b>3</b>	<b>1.38</b>	<b>0.96</b>	<b>1.49</b>	<b>(0.30, 4.35)</b>	<b>201</b>	<b>1.16</b>
Good Sam - Suffern	5	0	0.00	0.56	0.00	(0.00,100.0)	2	0.00
Mount Sinai Hospital	213	3	1.41	0.97	1.51	(0.30, 4.41)	199	1.16
<b>Bangalore S</b>	<b>355</b>	<b>4</b>	<b>1.13</b>	<b>1.79</b>	<b>0.65</b>	<b>(0.18, 1.68)</b>	<b>266</b>	<b>0.38</b>
Bellevue Hospital Ctr	336	4	1.19	1.82	0.68	(0.18, 1.74)	253	0.40
NYU Hospitals Center	19	0	0.00	1.24	0.00	(0.00,16.17)	13	0.00
<b>Berke A</b>	<b>241</b>	<b>4</b>	<b>1.66</b>	<b>2.32</b>	<b>0.74</b>	<b>(0.20, 1.90)</b>	<b>209</b>	<b>0.79</b>
South Nassau Com. Hosp	6	1	16.67	25.85	0.67	(0.01, 3.72)	.	.
St. Francis Hospital	235	3	1.28	1.72	0.77	(0.15, 2.25)	209	0.79



Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Bhambhani G</b>	<b>210</b>	<b>0</b>	<b>0.00</b>	<b>0.28</b>	<b>0.00</b>	<b>(0.00, 6.45)</b>	<b>210</b>	<b>0.00</b>
NY Methodist Hospital	189	0	0.00	0.28	0.00	(0.00, 7.15)	189	0.00
Univ. Hosp-Brooklyn	21	0	0.00	0.28	0.00	(0.00,65.76)	21	0.00
<b>Bhan R</b>	<b>417</b>	<b>4</b>	<b>0.96</b>	<b>0.63</b>	<b>1.57</b>	<b>(0.42, 4.03)</b>	<b>367</b>	<b>0.73</b>
St. Josephs Hospital	341	4	1.17	0.68	1.78	(0.48, 4.56)	301	0.82
Univ. Hosp-Upstate	76	0	0.00	0.41	0.00	(0.00,12.35)	66	0.00
<b>Bishop G</b>	<b>349</b>	<b>6</b>	<b>1.72</b>	<b>1.33</b>	<b>1.34</b>	<b>(0.49, 2.91)</b>	<b>220</b>	<b>0.69</b>
Samaritan Hospital	6	0	0.00	0.89	0.00	(0.00,71.06)	2	0.00
St. Peters Hospital	343	6	1.75	1.34	1.35	(0.49, 2.95)	218	0.69
<b>Bliagos D</b>	<b>800</b>	<b>7</b>	<b>0.88</b>	<b>1.32</b>	<b>0.69</b>	<b>(0.28, 1.42)</b>	<b>717</b>	<b>0.58</b>
Montefiore - Moses	13	0	0.00	0.85	0.00	(0.00,34.59)	12	0.00
Mount Sinai Hospital	14	0	0.00	0.44	0.00	(0.00,61.86)	14	0.00
NYP-Columbia Presby.	310	1	0.32	1.15	0.29	(0.00, 1.61)	298	0.25
White Plains Hospital	463	6	1.30	1.47	0.91	(0.33, 1.99)	393	0.91
<b>Blumenthal S</b>	<b>90</b>	<b>0</b>	<b>0.00</b>	<b>0.37</b>	<b>0.00</b>	<b>(0.00,11.50)</b>	<b>89</b>	<b>0.00</b>
North Shore Univ Hosp	87	0	0.00	0.36	0.00	(0.00,12.03)	86	0.00
Winthrop-Univ. Hosp	3	0	0.00	0.48	0.00	(0.00,100.0)	3	0.00
<b>Boutis L</b>	<b>771</b>	<b>7</b>	<b>0.91</b>	<b>1.37</b>	<b>0.68</b>	<b>(0.27, 1.41)</b>	<b>547</b>	<b>0.43</b>
Long Island Jewish MC	36	1	2.78	3.94	0.73	(0.01, 4.07)	4	0.00
North Shore Univ Hosp	735	6	0.82	1.25	0.68	(0.25, 1.47)	543	0.43
<b>Brady S</b>	<b>489</b>	<b>7</b>	<b>1.43</b>	<b>0.86</b>	<b>1.72</b>	<b>(0.69, 3.55)</b>	<b>382</b>	<b>1.18</b>
Albany Med. Ctr	312	4	1.28	1.02	1.30	(0.35, 3.32)	236	0.67
Glens Falls Hospital	1	0	0.00	0.74	0.00	(0.00,100.0)	.	.
Samaritan Hospital	70	0	0.00	0.65	0.00	(0.00, 8.42)	52	0.00
St. Peters Hospital	106	3	2.83	0.52	5.65 *	(1.13,16.50)	94	2.85
<b>Brogno D</b>	<b>433</b>	<b>5</b>	<b>1.15</b>	<b>0.69</b>	<b>1.73</b>	<b>(0.56, 4.03)</b>	<b>397</b>	<b>1.73</b>
Good Sam - Suffern	141	1	0.71	1.05	0.70	(0.01, 3.89)	108	0.94
NYP-Columbia Presby.	292	4	1.37	0.52	2.73	(0.73, 6.99)	289	2.19
<b>Calandra S</b>	<b>434</b>	<b>2</b>	<b>0.46</b>	<b>0.67</b>	<b>0.71</b>	<b>(0.08, 2.57)</b>	<b>330</b>	<b>0.45</b>
Buffalo General Hosp	1	0	0.00	0.43	0.00	(0.00,100.0)	1	0.00
Mercy Hospital	430	2	0.47	0.68	0.71	(0.08, 2.58)	326	0.45
Millard Fillmore Hosp	3	0	0.00	0.18	0.00	(0.00,100.0)	3	0.00
<b>Caselnova R</b>	<b>705</b>	<b>8</b>	<b>1.13</b>	<b>0.84</b>	<b>1.40</b>	<b>(0.60, 2.77)</b>	<b>627</b>	<b>1.10</b>
Good Sam-West Islip	463	4	0.86	0.67	1.34	(0.36, 3.42)	424	1.01
Southside Hospital	50	0	0.00	0.75	0.00	(0.00,10.17)	28	0.00
Winthrop-Univ. Hosp	192	4	2.08	1.27	1.71	(0.46, 4.37)	175	1.29
<b>Castillo R</b>	<b>358</b>	<b>10</b>	<b>2.79</b>	<b>2.11</b>	<b>1.37</b>	<b>(0.66, 2.52)</b>	<b>233</b>	<b>0.76</b>
Brookdale Univ Hosp Med Ctr	332	8	2.41	2.01	1.25	(0.54, 2.45)	232	0.76
Univ. Hosp-Brooklyn	26	2	7.69	3.45	2.31	(0.26, 8.34)	1	0.00
<b>Celaj S</b>	<b>521</b>	<b>5</b>	<b>0.96</b>	<b>0.97</b>	<b>1.02</b>	<b>(0.33, 2.38)</b>	<b>405</b>	<b>0.71</b>
Bronx-Lebanon-Concourse	32	1	3.13	2.96	1.09	(0.01, 6.09)	1	0.00
Montefiore - Moses	227	2	0.88	0.80	1.14	(0.13, 4.12)	183	1.27
Montefiore - Weiler	4	0	0.00	1.70	0.00	(0.00,55.81)	1	0.00
St. Barnabas Hospital	258	2	0.78	0.87	0.92	(0.10, 3.34)	220	0.39
<b>Chadow H</b>	<b>327</b>	<b>4</b>	<b>1.22</b>	<b>1.38</b>	<b>0.92</b>	<b>(0.25, 2.35)</b>	<b>226</b>	<b>0.00</b>
Brookdale Univ Hosp Med Ctr	303	3	0.99	1.37	0.75	(0.15, 2.20)	222	0.00
Univ. Hosp-Brooklyn	24	1	4.17	1.55	2.79	(0.04,15.50)	4	0.00
<b>Charney R</b>	<b>362</b>	<b>4</b>	<b>1.10</b>	<b>0.98</b>	<b>1.17</b>	<b>(0.32, 3.01)</b>	<b>347</b>	<b>0.57</b>
NYP-Weill Cornell	292	2	0.68	1.04	0.68	(0.08, 2.46)	287	0.42
Westchester Med Ctr	44	1	2.27	0.34	7.00	(0.09,38.96)	42	4.03
White Plains Hospital	26	1	3.85	1.31	3.05	(0.04,16.95)	18	0.00

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Chaudhry E</b>	<b>51</b>	<b>2</b>	<b>3.92</b>	<b>1.24</b>	<b>3.27</b>	<b>(0.37,11.80)</b>	<b>25</b>	<b>0.00</b>
Buffalo General Hosp	21	0	0.00	0.75	0.00	(0.00,24.01)	12	0.00
Mercy Hospital	29	2	6.90	1.62	4.41	(0.50,15.91)	13	0.00
Millard Fillmore Hosp	1	0	0.00	0.53	0.00	(0.00,100.0)	.	.
<b>Chockalingam S</b>	<b>344</b>	<b>8</b>	<b>2.33</b>	<b>1.15</b>	<b>2.09</b>	<b>(0.90, 4.12)</b>	<b>267</b>	<b>1.79</b>
Olean General Hosp.	2	0	0.00	0.29	0.00	(0.00,100.0)	1	0.00
Rochester General Hosp	256	4	1.56	1.04	1.56	(0.42, 4.00)	214	0.44
Unity Hospital	86	4	4.65	1.52	3.18	(0.85, 8.13)	52	7.45 *
<b>Cohen M B</b>	<b>206</b>	<b>2</b>	<b>0.97</b>	<b>1.23</b>	<b>0.82</b>	<b>(0.09, 2.96)</b>	<b>151</b>	<b>0.00</b>
Westchester Med Ctr	177	2	1.13	1.36	0.86	(0.10, 3.11)	126	0.00
White Plains Hospital	29	0	0.00	0.42	0.00	(0.00,31.48)	25	0.00
<b>Conley J</b>	<b>1029</b>	<b>12</b>	<b>1.17</b>	<b>1.01</b>	<b>1.20</b>	<b>(0.62, 2.09)</b>	<b>894</b>	<b>0.81</b>
Buffalo General Hosp	1021	12	1.18	1.02	1.20	(0.62, 2.09)	886	0.81
Mercy Hospital	8	0	0.00	0.25	0.00	(0.00,100.0)	8	0.00
<b>Coppola J</b>	<b>258</b>	<b>2</b>	<b>0.78</b>	<b>0.85</b>	<b>0.95</b>	<b>(0.11, 3.43)</b>	<b>223</b>	<b>0.00</b>
Bellevue Hospital Ctr	91	1	1.10	1.55	0.74	(0.01, 4.09)	66	0.00
Lenox Hill Hospital	3	0	0.00	0.23	0.00	(0.00,100.0)	3	0.00
NYU Hospitals Center	164	1	0.61	0.47	1.35	(0.02, 7.53)	154	0.00
<b>Corbelli J</b>	<b>376</b>	<b>3</b>	<b>0.80</b>	<b>0.89</b>	<b>0.93</b>	<b>(0.19, 2.71)</b>	<b>316</b>	<b>0.29</b>
Buffalo General Hosp	91	1	1.10	1.03	1.10	(0.01, 6.13)	67	0.00
Millard Fillmore Hosp	285	2	0.70	0.85	0.86	(0.10, 3.11)	249	0.38
<b>Coven D</b>	<b>198</b>	<b>2</b>	<b>1.01</b>	<b>1.10</b>	<b>0.95</b>	<b>(0.11, 3.42)</b>	<b>150</b>	<b>1.36</b>
Mount Sinai St. Lukes	196	2	1.02	1.07	0.99	(0.11, 3.57)	150	1.36
Univ. Brooklyn @ LICH	2	0	0.00	4.53	0.00	(0.00,41.99)	.	.
<b>Cuomo L</b>	<b>303</b>	<b>2</b>	<b>0.66</b>	<b>1.55</b>	<b>0.44</b>	<b>(0.05, 1.59)</b>	<b>210</b>	<b>0.41</b>
Orange Regional Med Ctr	2	0	0.00	0.13	0.00	(0.00,100.0)	1	0.00
Westchester Med Ctr	291	2	0.69	1.60	0.45	(0.05, 1.61)	199	0.43
White Plains Hospital	10	0	0.00	0.55	0.00	(0.00,69.74)	10	0.00
<b>Dashkoff N</b>	<b>453</b>	<b>4</b>	<b>0.88</b>	<b>1.84</b>	<b>0.50</b>	<b>(0.13, 1.27)</b>	<b>272</b>	<b>0.00</b>
Buffalo General Hosp	172	2	1.16	2.03	0.59	(0.07, 2.14)	112	0.00
Erie County Med Ctr	280	2	0.71	1.73	0.43	(0.05, 1.55)	159	0.00
Mercy Hospital	1	0	0.00	0.20	0.00	(0.00,100.0)	1	0.00
<b>David M</b>	<b>88</b>	<b>0</b>	<b>0.00</b>	<b>0.29</b>	<b>0.00</b>	<b>(0.00,15.01)</b>	<b>88</b>	<b>0.00</b>
NYP-Queens	86	0	0.00	0.28	0.00	(0.00,15.60)	86	0.00
NYU Hospitals Center	2	0	0.00	0.48	0.00	(0.00,100.0)	2	0.00
<b>Delago A</b>	<b>1014</b>	<b>22</b>	<b>2.17</b>	<b>1.04</b>	<b>2.17 *</b>	<b>(1.36, 3.28)</b>	<b>860</b>	<b>1.99 *</b>
Albany Med. Ctr	929	21	2.26	0.95	2.47 *	(1.53, 3.77)	801	2.12 *
Glens Falls Hospital	1	0	0.00	0.66	0.00	(0.00,100.0)	.	.
Samaritan Hospital	23	0	0.00	0.73	0.00	(0.00,22.55)	10	0.00
St. Peters Hospital	61	1	1.64	2.52	0.67	(0.01, 3.75)	49	0.00
<b>Deutsch E</b>	<b>683</b>	<b>4</b>	<b>0.59</b>	<b>0.69</b>	<b>0.88</b>	<b>(0.24, 2.25)</b>	<b>593</b>	<b>0.23</b>
Good Sam-West Islip	146	2	1.37	0.59	2.42	(0.27, 8.72)	116	0.00
Long Island Jewish MC	2	0	0.00	1.43	0.00	(0.00,100.0)	2	0.00
North Shore Univ Hosp	1	0	0.00	0.07	0.00	(0.00,100.0)	1	0.00
Southside Hospital	357	1	0.28	0.60	0.48	(0.01, 2.70)	329	0.00
St. Catherine of Siena	173	1	0.58	0.90	0.67	(0.01, 3.72)	141	0.79
St. Francis Hospital	4	0	0.00	3.24	0.00	(0.00,29.34)	4	0.00
<b>Dhama B</b>	<b>454</b>	<b>4</b>	<b>0.88</b>	<b>0.82</b>	<b>1.11</b>	<b>(0.30, 2.85)</b>	<b>438</b>	<b>0.76</b>
Long Island Jewish MC	339	2	0.59	0.79	0.78	(0.09, 2.81)	329	0.54
NYP-Queens	1	0	0.00	0.07	0.00	(0.00,100.0)	1	0.00
North Shore Univ Hosp	114	2	1.75	0.93	1.95	(0.22, 7.04)	108	1.28

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Dogar M</b>	<b>76</b>	<b>0</b>	<b>0.00</b>	<b>2.52</b>	<b>0.00</b>	<b>(0.00, 1.99)</b>	<b>50</b>	<b>0.00</b>
Univ. Brooklyn @ LICH	20	0	0.00	2.01	0.00	(0.00, 9.44)	4	0.00
Univ. Hosp-Brooklyn	56	0	0.00	2.70	0.00	(0.00, 2.52)	46	0.00
<b>Doling M</b>	<b>654</b>	<b>8</b>	<b>1.22</b>	<b>1.04</b>	<b>1.22</b>	<b>(0.53, 2.41)</b>	<b>512</b>	<b>0.82</b>
Rochester General Hosp	2	0	0.00	0.35	0.00	(0.00,100.0)	2	0.00
Strong Memorial Hosp	650	8	1.23	1.04	1.23	(0.53, 2.42)	508	0.83
Unity Hospital	2	0	0.00	0.17	0.00	(0.00,100.0)	2	0.00
<b>Dominguez-Echevarria A</b>	<b>351</b>	<b>0</b>	<b>0.00</b>	<b>0.80</b>	<b>0.00</b>	<b>(0.00, 1.35)</b>	<b>347</b>	<b>0.00</b>
Lenox Hill Hospital	15	0	0.00	0.46	0.00	(0.00,54.76)	15	0.00
Lutheran Medical Ctr	82	0	0.00	1.30	0.00	(0.00, 3.57)	79	0.00
Mount Sinai Hospital	33	0	0.00	0.47	0.00	(0.00,24.34)	33	0.00
NY Methodist Hospital	26	0	0.00	0.21	0.00	(0.00,68.30)	26	0.00
NYP-Columbia Presby.	195	0	0.00	0.75	0.00	(0.00, 2.60)	194	0.00
<b>Emerson R</b>	<b>230</b>	<b>3</b>	<b>1.30</b>	<b>1.05</b>	<b>1.29</b>	<b>(0.26, 3.78)</b>	<b>134</b>	<b>1.62</b>
Buffalo General Hosp	1	0	0.00	1.12	0.00	(0.00,100.0)	1	0.00
Erie County Med Ctr	4	0	0.00	0.25	0.00	(0.00,100.0)	2	0.00
Mercy Hospital	225	3	1.33	1.06	1.31	(0.26, 3.81)	131	1.63
<b>Esper D</b>	<b>600</b>	<b>6</b>	<b>1.00</b>	<b>1.01</b>	<b>1.02</b>	<b>(0.37, 2.22)</b>	<b>485</b>	<b>0.70</b>
Albany Med. Ctr	227	5	2.20	1.06	2.15	(0.69, 5.03)	163	1.57
Samaritan Hospital	14	0	0.00	1.00	0.00	(0.00,27.07)	3	0.00
St. Peters Hospital	359	1	0.28	0.99	0.29	(0.00, 1.63)	319	0.33
<b>Farhi E</b>	<b>752</b>	<b>8</b>	<b>1.06</b>	<b>0.89</b>	<b>1.24</b>	<b>(0.53, 2.44)</b>	<b>589</b>	<b>0.53</b>
Buffalo General Hosp	747	8	1.07	0.88	1.26	(0.54, 2.48)	587	0.53
Mercy Hospital	3	0	0.00	2.22	0.00	(0.00,57.00)	2	0.00
Millard Fillmore Hosp	2	0	0.00	2.64	0.00	(0.00,72.01)		
<b>Feit F</b>	<b>644</b>	<b>2</b>	<b>0.31</b>	<b>0.54</b>	<b>0.59</b>	<b>(0.07, 2.14)</b>	<b>601</b>	<b>0.26</b>
Bellevue Hospital Ctr	60	0	0.00	1.40	0.00	(0.00, 4.53)	43	0.00
Lenox Hill Hospital	8	0	0.00	0.28	0.00	(0.00,100.0)	8	0.00
NYU Hospitals Center	576	2	0.35	0.46	0.78	(0.09, 2.83)	550	0.29
<b>Fernaine G</b>	<b>653</b>	<b>6</b>	<b>0.92</b>	<b>1.07</b>	<b>0.89</b>	<b>(0.33, 1.94)</b>	<b>580</b>	<b>0.72</b>
Lenox Hill Hospital	11	0	0.00	0.29	0.00	(0.00,100.0)	11	0.00
Lutheran Medical Ctr	514	4	0.78	1.17	0.69	(0.19, 1.77)	442	0.46
Mount Sinai Hospital	128	2	1.56	0.74	2.20	(0.25, 7.93)	127	1.75
<b>Freeman J</b>	<b>846</b>	<b>7</b>	<b>0.83</b>	<b>0.85</b>	<b>1.01</b>	<b>(0.40, 2.08)</b>	<b>668</b>	<b>0.56</b>
North Shore Univ Hosp	3	0	0.00	2.70	0.00	(0.00,47.03)	3	0.00
South Nassau Com. Hosp	843	7	0.83	0.84	1.02	(0.41, 2.10)	665	0.57
<b>Friedman G H</b>	<b>355</b>	<b>1</b>	<b>0.28</b>	<b>0.84</b>	<b>0.35</b>	<b>(0.00, 1.93)</b>	<b>301</b>	<b>0.37</b>
Long Island Jewish MC	70	1	1.43	0.71	2.09	(0.03,11.65)	63	1.79
NYP-Queens	27	0	0.00	1.53	0.00	(0.00, 9.18)	20	0.00
North Shore Univ Hosp	55	0	0.00	0.79	0.00	(0.00, 8.81)	51	0.00
St. Francis Hospital	203	0	0.00	0.81	0.00	(0.00, 2.32)	167	0.00
<b>Gade C</b>	<b>56</b>	<b>0</b>	<b>0.00</b>	<b>0.42</b>	<b>0.00</b>	<b>(0.00,16.17)</b>	<b>55</b>	<b>0.00</b>
Lenox Hill Hospital	26	0	0.00	0.27	0.00	(0.00,54.19)	25	0.00
NYP-Weill Cornell	30	0	0.00	0.55	0.00	(0.00,23.05)	30	0.00
<b>Gambino A</b>	<b>743</b>	<b>8</b>	<b>1.08</b>	<b>0.82</b>	<b>1.36</b>	<b>(0.59, 2.69)</b>	<b>665</b>	<b>0.70</b>
North Shore Univ Hosp	2	1	50.00	0.33	100.00 *	(2.04,100.0)	2	58.46 *
Winthrop-Univ. Hosp	741	7	0.94	0.82	1.19	(0.48, 2.46)	663	0.53
<b>Gelormini J</b>	<b>562</b>	<b>4</b>	<b>0.71</b>	<b>1.02</b>	<b>0.72</b>	<b>(0.19, 1.85)</b>	<b>430</b>	<b>0.87</b>
Buffalo General Hosp	34	1	2.94	0.67	4.57	(0.06,25.40)	32	3.10
Mercy Hospital	505	3	0.59	1.08	0.57	(0.11, 1.67)	376	0.66
Millard Fillmore Hosp	23	0	0.00	0.35	0.00	(0.00,47.92)	22	0.00

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>George A</b>	<b>409</b>	<b>6</b>	<b>1.47</b>	<b>1.59</b>	<b>0.96</b>	<b>(0.35, 2.08)</b>	<b>301</b>	<b>0.41</b>
Crouse Hospital	407	6	1.47	1.60	0.96	(0.35, 2.08)	299	0.41
Univ. Hosp-Upstate	2	0	0.00	0.21	0.00	(0.00,100.0)	2	0.00
<b>Gosselin R</b>	<b>239</b>	<b>3</b>	<b>1.26</b>	<b>0.93</b>	<b>1.40</b>	<b>(0.28, 4.08)</b>	<b>178</b>	<b>1.16</b>
St. Lukes Cornwall Hosp	183	2	1.09	0.85	1.33	(0.15, 4.79)	134	0.82
Vassar Bros. Med Ctr	56	1	1.79	1.19	1.56	(0.02, 8.69)	44	1.98
<b>Gotsis W</b>	<b>813</b>	<b>5</b>	<b>0.62</b>	<b>0.94</b>	<b>0.68</b>	<b>(0.22, 1.59)</b>	<b>617</b>	<b>0.35</b>
Montefiore - Weiler	53	1	1.89	1.39	1.41	(0.02, 7.83)	43	0.00
Orange Regional Med Ctr	593	2	0.34	0.85	0.41	(0.05, 1.49)	467	0.50
Westchester Med Ctr	167	2	1.20	1.11	1.12	(0.13, 4.05)	107	0.00
<b>Gowda R</b>	<b>823</b>	<b>8</b>	<b>0.97</b>	<b>1.42</b>	<b>0.71</b>	<b>(0.31, 1.40)</b>	<b>699</b>	<b>0.67</b>
Mount Sinai Beth Israel	638	6	0.94	1.40	0.70	(0.25, 1.52)	537	0.71
Mount Sinai St. Lukes	1	0	0.00	0.91	0.00	(0.00,100.0)	1	0.00
Univ. Brooklyn @ LICH	184	2	1.09	1.49	0.75	(0.08, 2.72)	161	0.53
<b>Green S</b>	<b>352</b>	<b>0</b>	<b>0.00</b>	<b>1.29</b>	<b>0.00 **</b>	<b>(0.00, 0.84)</b>	<b>241</b>	<b>0.00</b>
Long Island Jewish MC	10	0	0.00	1.69	0.00	(0.00,22.55)	2	0.00
North Shore Univ Hosp	323	0	0.00	1.24	0.00 **	(0.00, 0.95)	231	0.00
Winthrop-Univ. Hosp	19	0	0.00	1.97	0.00	(0.00,10.16)	8	0.00
<b>Greenberg M</b>	<b>588</b>	<b>4</b>	<b>0.68</b>	<b>0.95</b>	<b>0.74</b>	<b>(0.20, 1.91)</b>	<b>484</b>	<b>0.23</b>
Montefiore - Moses	513	3	0.58	0.87	0.70	(0.14, 2.05)	423	0.27
Montefiore - Weiler	59	0	0.00	1.53	0.00	(0.00, 4.20)	57	0.00
St. Barnabas Hospital	16	1	6.25	1.41	4.60	(0.06,25.61)	4	0.00
<b>Grunwald A</b>	<b>408</b>	<b>4</b>	<b>0.98</b>	<b>0.94</b>	<b>1.08</b>	<b>(0.29, 2.78)</b>	<b>348</b>	<b>0.58</b>
Long Island Jewish MC	165	0	0.00	0.70	0.00	(0.00, 3.28)	155	0.00
NYP-Queens	64	1	1.56	1.44	1.13	(0.01, 6.28)	39	1.63
North Shore Univ Hosp	98	0	0.00	0.75	0.00	(0.00, 5.17)	88	0.00
St. Francis Hospital	81	3	3.70	1.25	3.08	(0.62, 9.00)	66	1.37
<b>Gupta R</b>	<b>145</b>	<b>1</b>	<b>0.69</b>	<b>0.85</b>	<b>0.84</b>	<b>(0.01, 4.67)</b>	<b>138</b>	<b>0.64</b>
Long Island Jewish MC	47	0	0.00	0.88	0.00	(0.00, 9.22)	45	0.00
NYP-Queens	98	1	1.02	0.84	1.26	(0.02, 7.01)	93	0.91
<b>Hadid A</b>	<b>284</b>	<b>6</b>	<b>2.11</b>	<b>1.27</b>	<b>1.73</b>	<b>(0.63, 3.76)</b>	<b>234</b>	<b>1.46</b>
St. Lukes Cornwall Hosp	282	6	2.13	1.24	1.78	(0.65, 3.87)	232	1.52
Westchester Med Ctr	2	0	0.00	5.04	0.00	(0.00,37.72)	2	0.00
<b>Hameedi A</b>	<b>953</b>	<b>2</b>	<b>0.21</b>	<b>0.28</b>	<b>0.78</b>	<b>(0.09, 2.82)</b>	<b>951</b>	<b>0.54</b>
Long Island Jewish MC	777	2	0.26	0.29	0.92	(0.10, 3.33)	775	0.64
Mount Sinai Hospital	147	0	0.00	0.24	0.00	(0.00,10.76)	147	0.00
NYP-Queens	27	0	0.00	0.16	0.00	(0.00,86.50)	27	0.00
North Shore Univ Hosp	2	0	0.00	0.65	0.00	(0.00,100.0)	2	0.00
<b>Haq N</b>	<b>407</b>	<b>1</b>	<b>0.25</b>	<b>0.89</b>	<b>0.28</b>	<b>(0.00, 1.58)</b>	<b>283</b>	<b>0.00</b>
Buffalo General Hosp	9	0	0.00	1.17	0.00	(0.00,36.07)	1	0.00
Mercy Hospital	385	1	0.26	0.87	0.31	(0.00, 1.72)	279	0.00
Millard Fillmore Hosp	13	0	0.00	1.45	0.00	(0.00,20.15)	3	0.00
<b>Hasan C</b>	<b>345</b>	<b>0</b>	<b>0.00</b>	<b>0.25</b>	<b>0.00</b>	<b>(0.00, 4.39)</b>	<b>344</b>	<b>0.00</b>
Mount Sinai Hospital	344	0	0.00	0.25	0.00	(0.00, 4.40)	343	0.00
NYP-Queens	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
<b>Hassid B</b>	<b>209</b>	<b>2</b>	<b>0.96</b>	<b>0.93</b>	<b>1.07</b>	<b>(0.12, 3.86)</b>	<b>195</b>	<b>0.96</b>
Lenox Hill Hospital	166	1	0.60	0.74	0.84	(0.01, 4.68)	155	0.69
NYP-Columbia Presby.	38	0	0.00	1.77	0.00	(0.00, 5.64)	35	0.00
White Plains Hospital	5	1	20.00	0.61	34.25	(0.45,100.0)	5	17.75
<b>Hegde S</b>	<b>190</b>	<b>1</b>	<b>0.53</b>	<b>1.05</b>	<b>0.52</b>	<b>(0.01, 2.90)</b>	<b>159</b>	<b>0.00</b>
Bellevue Hospital Ctr	142	0	0.00	0.98	0.00	(0.00, 2.74)	141	0.00
Univ. Hosp-Brooklyn	48	1	2.08	1.25	1.73	(0.02, 9.62)	18	0.00

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Hjemdahl-Monsen C</b>	<b>383</b>	<b>5</b>	<b>1.31</b>	<b>1.12</b>	<b>1.21</b>	<b>(0.39, 2.82)</b>	<b>351</b>	<b>0.76</b>
NYP-Columbia Presby.	229	3	1.31	1.21	1.12	(0.23, 3.27)	215	0.59
Westchester Med Ctr	98	1	1.02	1.00	1.06	(0.01, 5.89)	85	0.88
White Plains Hospital	56	1	1.79	0.97	1.92	(0.03,10.66)	51	1.34
<b>Hormozi S</b>	<b>995</b>	<b>10</b>	<b>1.01</b>	<b>0.90</b>	<b>1.16</b>	<b>(0.55, 2.13)</b>	<b>831</b>	<b>0.91</b>
Good Sam-West Islip	412	5	1.21	0.76	1.66	(0.53, 3.87)	363	1.26
North Shore Univ Hosp	18	0	0.00	0.25	0.00	(0.00,85.29)	18	0.00
South Nassau Com. Hosp	31	0	0.00	1.66	0.00	(0.00, 7.37)	10	0.00
Southside Hospital	360	5	1.39	0.89	1.63	(0.52, 3.80)	302	1.14
St. Catherine of Siena	170	0	0.00	1.22	0.00	(0.00, 1.83)	135	0.00
Winthrop-Univ. Hosp	4	0	0.00	0.53	0.00	(0.00,100.0)	3	0.00
<b>Hoyek W</b>	<b>400</b>	<b>6</b>	<b>1.50</b>	<b>0.86</b>	<b>1.82</b>	<b>(0.66, 3.95)</b>	<b>340</b>	<b>1.46</b>
Lutheran Medical Ctr	70	2	2.86	1.83	1.62	(0.18, 5.86)	35	0.00
Maimonides Medical Ctr	6	0	0.00	1.14	0.00	(0.00,55.71)	6	0.00
NY Methodist Hospital	163	3	1.84	0.39	4.89	(0.98,14.28)	162	3.21
Staten Island Univ Hosp	161	1	0.62	0.90	0.72	(0.01, 4.00)	137	0.00
<b>Iqbal S</b>	<b>324</b>	<b>3</b>	<b>0.93</b>	<b>1.09</b>	<b>0.88</b>	<b>(0.18, 2.58)</b>	<b>224</b>	<b>0.00</b>
Bellevue Hospital Ctr	292	3	1.03	1.11	0.96	(0.19, 2.80)	203	0.00
Lenox Hill Hospital	2	0	0.00	0.56	0.00	(0.00,100.0)	2	0.00
NYU Hospitals Center	30	0	0.00	0.88	0.00	(0.00,14.38)	19	0.00
<b>Irobunda C</b>	<b>159</b>	<b>1</b>	<b>0.63</b>	<b>1.19</b>	<b>0.55</b>	<b>(0.01, 3.05)</b>	<b>139</b>	<b>0.00</b>
NYP-Columbia Presby.	151	1	0.66	1.21	0.57	(0.01, 3.15)	136	0.00
White Plains Hospital	8	0	0.00	0.72	0.00	(0.00,65.85)	3	0.00
<b>Iyer V</b>	<b>491</b>	<b>8</b>	<b>1.63</b>	<b>1.33</b>	<b>1.27</b>	<b>(0.55, 2.51)</b>	<b>355</b>	<b>1.28</b>
Buffalo General Hosp	451	8	1.77	1.21	1.52	(0.65, 3.00)	349	1.30
Erie County Med Ctr	31	0	0.00	3.03	0.00	(0.00, 4.05)	4	0.00
Millard Fillmore Hosp	9	0	0.00	1.26	0.00	(0.00,33.47)	2	0.00
<b>Jafar M</b>	<b>708</b>	<b>10</b>	<b>1.41</b>	<b>1.00</b>	<b>1.46</b>	<b>(0.70, 2.68)</b>	<b>535</b>	<b>0.61</b>
St. Lukes Cornwall Hosp	14	0	0.00	0.33	0.00	(0.00,82.30)	14	0.00
Vassar Bros. Med Ctr	694	10	1.44	1.02	1.47	(0.70, 2.70)	521	0.62
<b>Jain S</b>	<b>437</b>	<b>5</b>	<b>1.14</b>	<b>1.02</b>	<b>1.16</b>	<b>(0.37, 2.71)</b>	<b>325</b>	<b>0.33</b>
Jamaica Hosp Med Ctr	203	5	2.46	1.57	1.63	(0.52, 3.80)	95	1.09
Lenox Hill Hospital	234	0	0.00	0.55	0.00	(0.00, 2.98)	230	0.00
<b>Jasty B</b>	<b>117</b>	<b>1</b>	<b>0.85</b>	<b>0.51</b>	<b>1.73</b>	<b>(0.02, 9.65)</b>	<b>117</b>	<b>1.10</b>
NY Methodist Hospital	108	1	0.93	0.54	1.79	(0.02, 9.95)	108	1.13
Univ. Hosp-Brooklyn	9	0	0.00	0.20	0.00	(0.00,100.0)	9	0.00
<b>Jauhar R</b>	<b>1343</b>	<b>9</b>	<b>0.67</b>	<b>0.78</b>	<b>0.89</b>	<b>(0.40, 1.68)</b>	<b>1140</b>	<b>0.88</b>
Long Island Jewish MC	1303	9	0.69	0.75	0.96	(0.44, 1.81)	1140	0.88
North Shore Univ Hosp	40	0	0.00	1.88	0.00	(0.00, 5.05)	.	.
<b>Jayasundera T</b>	<b>175</b>	<b>0</b>	<b>0.00</b>	<b>0.27</b>	<b>0.00</b>	<b>(0.00, 8.12)</b>	<b>175</b>	<b>0.00</b>
Mount Sinai Hospital	7	0	0.00	0.27	0.00	(0.00,100.0)	7	0.00
NYU Hospitals Center	168	0	0.00	0.27	0.00	(0.00, 8.46)	168	0.00
<b>John S</b>	<b>143</b>	<b>1</b>	<b>0.70</b>	<b>1.09</b>	<b>0.66</b>	<b>(0.01, 3.69)</b>	<b>124</b>	<b>0.00</b>
Brookdale Univ Hosp Med Ctr	1	0	0.00	0.30	0.00	(0.00,100.0)	1	0.00
NY Methodist Hospital	7	0	0.00	0.63	0.00	(0.00,86.20)	7	0.00
Univ. Hosp-Brooklyn	135	1	0.74	1.12	0.68	(0.01, 3.81)	116	0.00
<b>Johnson M</b>	<b>342</b>	<b>5</b>	<b>1.46</b>	<b>0.89</b>	<b>1.70</b>	<b>(0.55, 3.97)</b>	<b>280</b>	<b>0.44</b>
Bronx-Lebanon-Concourse	28	3	10.71	2.58	4.30	(0.86,12.57)	3	27.90
Montefiore - Moses	214	2	0.93	0.72	1.35	(0.15, 4.87)	191	0.00
Montefiore - Weiler	22	0	0.00	1.00	0.00	(0.00,17.28)	18	0.00
NYP-Columbia Presby.	65	0	0.00	0.60	0.00	(0.00, 9.69)	65	0.00
St. Barnabas Hospital	2	0	0.00	1.03	0.00	(0.00,100.0)	.	.
White Plains Hospital	11	0	0.00	1.44	0.00	(0.00,24.07)	3	0.00

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Kalapatapu K</b>	<b>797</b>	<b>9</b>	<b>1.13</b>	<b>1.05</b>	<b>1.12</b>	<b>(0.51, 2.12)</b>	<b>749</b>	<b>0.60</b>
NYP-Columbia Presby.	309	5	1.62	1.24	1.35	(0.44, 3.15)	295	0.53
Orange Regional Med Ctr	254	2	0.79	0.89	0.92	(0.10, 3.32)	250	0.56
Westchester Med Ctr	138	2	1.45	0.89	1.68	(0.19, 6.08)	119	1.32
White Plains Hospital	96	0	0.00	1.06	0.00	(0.00, 3.73)	85	0.00
<b>Kamran M</b>	<b>894</b>	<b>5</b>	<b>0.56</b>	<b>0.77</b>	<b>0.75</b>	<b>(0.24, 1.76)</b>	<b>669</b>	<b>0.45</b>
Elmhurst Hospital Ctr	875	5	0.57	0.77	0.77	(0.25, 1.80)	650	0.48
Mount Sinai Hospital	19	0	0.00	0.77	0.00	(0.00,25.92)	19	0.00
<b>Kandov R</b>	<b>372</b>	<b>7</b>	<b>1.88</b>	<b>2.16</b>	<b>0.90</b>	<b>(0.36, 1.86)</b>	<b>250</b>	<b>0.65</b>
Good Sam - Suffern	19	1	5.26	2.96	1.85	(0.02,10.27)	4	0.00
Lutheran Medical Ctr	56	1	1.79	4.37	0.42	(0.01, 2.36)	32	0.00
Staten Island Univ Hosp	297	5	1.68	1.69	1.03	(0.33, 2.41)	214	0.82
<b>Kantrowitz N</b>	<b>150</b>	<b>2</b>	<b>1.33</b>	<b>1.22</b>	<b>1.14</b>	<b>(0.13, 4.10)</b>	<b>106</b>	<b>1.27</b>
Maimonides Medical Ctr	6	0	0.00	0.17	0.00	(0.00,100.0)	6	0.00
Mount Sinai Beth Israel	1	0	0.00	0.12	0.00	(0.00,100.0)	1	0.00
Univ. Brooklyn @ LICH	139	2	1.44	1.28	1.17	(0.13, 4.21)	95	1.42
Univ. Hosp-Brooklyn	4	0	0.00	0.91	0.00	(0.00,100.0)	4	0.00
<b>Kaplan B</b>	<b>1259</b>	<b>8</b>	<b>0.64</b>	<b>0.92</b>	<b>0.72</b>	<b>(0.31, 1.41)</b>	<b>1106</b>	<b>0.61</b>
Long Island Jewish MC	1052	7	0.67	0.88	0.79	(0.31, 1.62)	947	0.64
North Shore Univ Hosp	207	1	0.48	1.13	0.44	(0.01, 2.46)	159	0.49
<b>Katz S</b>	<b>332</b>	<b>2</b>	<b>0.60</b>	<b>1.16</b>	<b>0.54</b>	<b>(0.06, 1.95)</b>	<b>234</b>	<b>0.48</b>
Long Island Jewish MC	33	0	0.00	2.02	0.00	(0.00, 5.72)	5	0.00
North Shore Univ Hosp	299	2	0.67	1.06	0.65	(0.07, 2.35)	229	0.49
<b>Kelberman M</b>	<b>309</b>	<b>3</b>	<b>0.97</b>	<b>0.85</b>	<b>1.19</b>	<b>(0.24, 3.47)</b>	<b>252</b>	<b>0.74</b>
Faxton - St. Lukes	11	1	9.09	0.86	11.01	(0.14,61.27)	7	0.00
St. Elizabeth Med Ctr	298	2	0.67	0.85	0.82	(0.09, 2.96)	245	0.77
<b>Kesanakurthy S</b>	<b>1015</b>	<b>9</b>	<b>0.89</b>	<b>0.57</b>	<b>1.60</b>	<b>(0.73, 3.05)</b>	<b>998</b>	<b>1.16</b>
Lenox Hill Hospital	294	0	0.00	0.59	0.00	(0.00, 2.19)	285	0.00
Mount Sinai Hospital	269	1	0.37	0.36	1.06	(0.01, 5.89)	266	0.70
NYP-Columbia Presby.	149	1	0.67	0.71	0.99	(0.01, 5.49)	148	0.77
NYP-Weill Cornell	303	7	2.31	0.68	3.54 *	(1.42, 7.29)	299	2.51 *
<b>Khan S</b>	<b>231</b>	<b>4</b>	<b>1.73</b>	<b>1.11</b>	<b>1.62</b>	<b>(0.44, 4.15)</b>	<b>196</b>	<b>1.19</b>
St. Catherine of Siena	70	1	1.43	1.57	0.94	(0.01, 5.24)	44	0.00
Univ. Hosp-Stony Brook	161	3	1.86	0.90	2.14	(0.43, 6.24)	152	1.60
<b>Khawaja H</b>	<b>137</b>	<b>5</b>	<b>3.65</b>	<b>0.84</b>	<b>4.51 *</b>	<b>(1.45,10.53)</b>	<b>101</b>	<b>0.00</b>
Albany Med. Ctr	76	4	5.26	0.68	8.00 *	(2.15,20.49)	53	0.00
Samaritan Hospital	8	1	12.50	1.56	8.31	(0.11,46.24)	6	0.00
St. Peters Hospital	53	0	0.00	0.95	0.00	(0.00, 7.52)	42	0.00
<b>Kim M</b>	<b>1539</b>	<b>15</b>	<b>0.97</b>	<b>0.92</b>	<b>1.10</b>	<b>(0.61, 1.81)</b>	<b>1428</b>	<b>0.67</b>
Elmhurst Hospital Ctr	27	0	0.00	1.93	0.00	(0.00, 7.29)	1	0.00
Lenox Hill Hospital	1	0	0.00	0.51	0.00	(0.00,100.0)	1	0.00
Long Island Jewish MC	8	0	0.00	1.04	0.00	(0.00,45.74)	1	0.00
Mount Sinai Hospital	1281	11	0.86	0.80	1.11	(0.55, 1.99)	1252	0.63
North Shore Univ Hosp	222	4	1.80	1.49	1.26	(0.34, 3.22)	173	0.93
<b>Kodali S</b>	<b>321</b>	<b>9</b>	<b>2.80</b>	<b>2.25</b>	<b>1.29</b>	<b>(0.59, 2.46)</b>	<b>284</b>	<b>0.87</b>
NYP-Columbia Presby.	318	9	2.83	2.26	1.30	(0.59, 2.46)	282	0.87
White Plains Hospital	3	0	0.00	0.37	0.00	(0.00,100.0)	2	0.00
<b>Koss J</b>	<b>393</b>	<b>5</b>	<b>1.27</b>	<b>0.95</b>	<b>1.39</b>	<b>(0.45, 3.24)</b>	<b>321</b>	<b>1.38</b>
Long Island Jewish MC	186	2	1.08	0.72	1.55	(0.17, 5.59)	170	2.18
NYP-Queens	39	1	2.56	1.79	1.49	(0.02, 8.27)	22	0.00
North Shore Univ Hosp	89	0	0.00	0.78	0.00	(0.00, 5.51)	78	0.00
St. Francis Hospital	79	2	2.53	1.27	2.06	(0.23, 7.45)	51	2.19

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Kozman H</b>	<b>263</b>	<b>7</b>	<b>2.66</b>	<b>1.99</b>	<b>1.39</b>	<b>(0.56, 2.86)</b>	<b>150</b>	<b>1.65</b>
Faxton - St. Lukes	6	0	0.00	0.67	0.00	(0.00,94.99)	1	0.00
St. Elizabeth Med Ctr	1	0	0.00	1.10	0.00	(0.00,100.0)	.	.
Univ. Hosp-Upstate	256	7	2.73	2.02	1.40	(0.56, 2.89)	149	1.65
<b>Krim N</b>	<b>195</b>	<b>3</b>	<b>1.54</b>	<b>1.65</b>	<b>0.97</b>	<b>(0.19, 2.82)</b>	<b>121</b>	<b>0.00</b>
Bronx-Lebanon-Concourse	91	2	2.20	2.81	0.81	(0.09, 2.93)	19	0.00
Montefiore - Moses	103	1	0.97	0.56	1.81	(0.02,10.07)	101	0.00
Montefiore - Weiler	1	0	0.00	8.80	0.00	(0.00,43.23)	1	0.00
<b>Kukar A</b>	<b>265</b>	<b>2</b>	<b>0.75</b>	<b>0.83</b>	<b>0.94</b>	<b>(0.11, 3.41)</b>	<b>236</b>	<b>0.44</b>
Jamaica Hosp Med Ctr	12	0	0.00	1.40	0.00	(0.00,22.58)	.	.
Lenox Hill Hospital	253	2	0.79	0.80	1.02	(0.11, 3.69)	236	0.44
<b>Kurian D</b>	<b>57</b>	<b>2</b>	<b>3.51</b>	<b>0.67</b>	<b>5.40</b>	<b>(0.61,19.49)</b>	<b>54</b>	<b>3.98</b>
Bellevue Hospital Ctr	47	1	2.13	0.69	3.20	(0.04,17.81)	45	2.13
NYU Hospitals Center	10	1	10.00	0.60	17.22	(0.23,95.82)	9	29.89
<b>Kwan T</b>	<b>924</b>	<b>1</b>	<b>0.11</b>	<b>0.37</b>	<b>0.30</b>	<b>(0.00, 1.67)</b>	<b>923</b>	<b>0.20</b>
Mount Sinai Beth Israel	881	1	0.11	0.37	0.32	(0.00, 1.77)	881	0.22
Univ. Brooklyn @ LICH	43	0	0.00	0.43	0.00	(0.00,20.75)	42	0.00
<b>Lasic Z</b>	<b>434</b>	<b>7</b>	<b>1.61</b>	<b>1.38</b>	<b>1.21</b>	<b>(0.48, 2.49)</b>	<b>290</b>	<b>0.57</b>
Jamaica Hosp Med Ctr	213	7	3.29	1.96	1.74	(0.70, 3.58)	77	2.33
Lenox Hill Hospital	221	0	0.00	0.83	0.00	(0.00, 2.08)	213	0.00
<b>Lederman S</b>	<b>220</b>	<b>2</b>	<b>0.91</b>	<b>1.13</b>	<b>0.84</b>	<b>(0.09, 3.02)</b>	<b>204</b>	<b>0.00</b>
North Shore Univ Hosp	4	0	0.00	0.24	0.00	(0.00,100.0)	4	0.00
Univ. Hosp-Stony Brook	216	2	0.93	1.14	0.84	(0.09, 3.03)	200	0.00
<b>Lee A</b>	<b>492</b>	<b>5</b>	<b>1.02</b>	<b>1.55</b>	<b>0.68</b>	<b>(0.22, 1.59)</b>	<b>335</b>	<b>0.76</b>
Long Island Jewish MC	84	1	1.19	1.65	0.75	(0.01, 4.17)	54	0.96
North Shore Univ Hosp	408	4	0.98	1.52	0.67	(0.18, 1.71)	281	0.71
<b>Lee J</b>	<b>20</b>	<b>0</b>	<b>0.00</b>	<b>0.15</b>	<b>0.00</b>	<b>(0.00,100.0)</b>	<b>20</b>	<b>0.00</b>
Mount Sinai Hospital	16	0	0.00	0.16	0.00	(0.00,100.0)	16	0.00
NYU Hospitals Center	4	0	0.00	0.15	0.00	(0.00,100.0)	4	0.00
<b>Lee P C</b>	<b>100</b>	<b>2</b>	<b>2.00</b>	<b>2.11</b>	<b>0.98</b>	<b>(0.11, 3.54)</b>	<b>68</b>	<b>0.00</b>
Lutheran Medical Ctr	62	2	3.23	3.00	1.12	(0.13, 4.03)	31	0.00
Mount Sinai Beth Israel	14	0	0.00	0.31	0.00	(0.00,87.09)	14	0.00
Mount Sinai Hospital	24	0	0.00	0.87	0.00	(0.00,18.19)	23	0.00
<b>Lee P J</b>	<b>824</b>	<b>5</b>	<b>0.61</b>	<b>0.61</b>	<b>1.03</b>	<b>(0.33, 2.41)</b>	<b>747</b>	<b>0.59</b>
Good Sam-West Islip	440	3	0.68	0.47	1.50	(0.30, 4.37)	394	0.57
Southside Hospital	351	1	0.28	0.76	0.39	(0.01, 2.16)	320	0.34
St. Francis Hospital	33	1	3.03	0.80	3.94	(0.05,21.94)	33	2.33
<b>Ling F</b>	<b>427</b>	<b>5</b>	<b>1.17</b>	<b>1.43</b>	<b>0.85</b>	<b>(0.27, 1.98)</b>	<b>284</b>	<b>0.34</b>
Strong Memorial Hosp	426	5	1.17	1.43	0.85	(0.27, 1.98)	283	0.34
Unity Hospital	1	0	0.00	0.19	0.00	(0.00,100.0)	1	0.00
<b>Liou M</b>	<b>212</b>	<b>1</b>	<b>0.47</b>	<b>0.41</b>	<b>1.19</b>	<b>(0.02, 6.65)</b>	<b>210</b>	<b>0.83</b>
Mount Sinai Beth Israel	108	1	0.93	0.47	2.03	(0.03,11.32)	106	1.47
NYU Hospitals Center	104	0	0.00	0.34	0.00	(0.00,10.62)	104	0.00
<b>Lituchy A</b>	<b>536</b>	<b>3</b>	<b>0.56</b>	<b>1.09</b>	<b>0.53</b>	<b>(0.11, 1.55)</b>	<b>492</b>	<b>0.29</b>
South Nassau Com. Hosp	10	0	0.00	1.40	0.00	(0.00,27.18)	3	0.00
St. Francis Hospital	526	3	0.57	1.09	0.55	(0.11, 1.59)	489	0.29
<b>Maclsaac H</b>	<b>620</b>	<b>15</b>	<b>2.42</b>	<b>1.81</b>	<b>1.38</b>	<b>(0.77, 2.28)</b>	<b>515</b>	<b>0.71</b>
Faxton - St. Lukes	56	3	5.36	2.95	1.88	(0.38, 5.50)	41	1.92
St. Elizabeth Med Ctr	564	12	2.13	1.70	1.30	(0.67, 2.27)	474	0.54

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Madrid A</b>	<b>202</b>	<b>3</b>	<b>1.49</b>	<b>0.90</b>	<b>1.72</b>	<b>(0.35, 5.02)</b>	<b>176</b>	<b>0.70</b>
St. Catherine of Siena	6	0	0.00	0.90	0.00	(0.00,70.47)	.	.
St. Francis Hospital	196	3	1.53	0.90	1.77	(0.36, 5.17)	176	0.70
<b>Marchant D</b>	<b>208</b>	<b>2</b>	<b>0.96</b>	<b>1.86</b>	<b>0.54</b>	<b>(0.06, 1.94)</b>	<b>119</b>	<b>0.66</b>
Long Island Jewish MC	29	0	0.00	2.52	0.00	(0.00, 5.21)	6	0.00
North Shore Univ Hosp	179	2	1.12	1.75	0.66	(0.07, 2.39)	113	0.69
<b>Martinelli M</b>	<b>525</b>	<b>6</b>	<b>1.14</b>	<b>0.86</b>	<b>1.38</b>	<b>(0.50, 3.01)</b>	<b>389</b>	<b>1.30</b>
Samaritan Hospital	5	0	0.00	0.57	0.00	(0.00,100.0)	1	0.00
St. Peters Hospital	520	6	1.15	0.86	1.39	(0.51, 3.03)	388	1.31
<b>Masud A</b>	<b>398</b>	<b>10</b>	<b>2.51</b>	<b>1.20</b>	<b>2.18 *</b>	<b>(1.04, 4.00)</b>	<b>352</b>	<b>1.00</b>
Buffalo General Hosp	223	8	3.59	1.16	3.20 *	(1.38, 6.30)	200	2.09
Mercy Hospital	99	1	1.01	1.35	0.77	(0.01, 4.31)	87	0.00
Millard Fillmore Hosp	76	1	1.32	1.09	1.25	(0.02, 6.96)	65	0.00
<b>Mathew T C</b>	<b>344</b>	<b>3</b>	<b>0.87</b>	<b>0.72</b>	<b>1.25</b>	<b>(0.25, 3.66)</b>	<b>279</b>	<b>0.62</b>
Faxton - St. Lukes	309	3	0.97	0.70	1.44	(0.29, 4.21)	255	0.77
St. Elizabeth Med Ctr	35	0	0.00	0.93	0.00	(0.00,11.75)	24	0.00
<b>Menegus M</b>	<b>524</b>	<b>6</b>	<b>1.15</b>	<b>1.10</b>	<b>1.08</b>	<b>(0.40, 2.36)</b>	<b>389</b>	<b>0.69</b>
Montefiore - Moses	472	5	1.06	1.06	1.04	(0.34, 2.43)	358	0.80
Montefiore - Weiler	38	1	2.63	1.59	1.72	(0.02, 9.57)	30	0.00
St. Barnabas Hospital	14	0	0.00	1.18	0.00	(0.00,23.04)	1	0.00
<b>Meraj P</b>	<b>390</b>	<b>6</b>	<b>1.54</b>	<b>1.27</b>	<b>1.26</b>	<b>(0.46, 2.74)</b>	<b>284</b>	<b>0.94</b>
Long Island Jewish MC	376	5	1.33	1.25	1.10	(0.35, 2.57)	283	0.95
North Shore Univ Hosp	14	1	7.14	1.69	4.38	(0.06,24.34)	1	0.00
<b>Messinger D</b>	<b>211</b>	<b>4</b>	<b>1.90</b>	<b>1.36</b>	<b>1.44</b>	<b>(0.39, 3.70)</b>	<b>197</b>	<b>0.97</b>
NYP-Weill Cornell	133	3	2.26	1.48	1.58	(0.32, 4.60)	129	0.94
Westchester Med Ctr	36	1	2.78	0.83	3.49	(0.05,19.40)	36	2.07
White Plains Hospital	42	0	0.00	1.43	0.00	(0.00, 6.34)	32	0.00
<b>Miller L</b>	<b>122</b>	<b>4</b>	<b>3.28</b>	<b>1.78</b>	<b>1.91</b>	<b>(0.51, 4.88)</b>	<b>89</b>	<b>1.78</b>
Bellevue Hospital Ctr	112	3	2.68	1.82	1.53	(0.31, 4.47)	84	1.25
NYU Hospitals Center	10	1	10.00	1.40	7.42	(0.10,41.27)	5	11.86
<b>Morris W</b>	<b>1005</b>	<b>12</b>	<b>1.19</b>	<b>1.01</b>	<b>1.22</b>	<b>(0.63, 2.13)</b>	<b>845</b>	<b>0.98</b>
Buffalo General Hosp	975	12	1.23	1.02	1.25	(0.64, 2.18)	821	1.01
Mercy Hospital	24	0	0.00	0.50	0.00	(0.00,31.87)	24	0.00
Millard Fillmore Hosp	6	0	0.00	1.83	0.00	(0.00,34.57)	.	.
<b>Moses J</b>	<b>1277</b>	<b>3</b>	<b>0.23</b>	<b>0.56</b>	<b>0.44</b>	<b>(0.09, 1.27)</b>	<b>1273</b>	<b>0.34</b>
NYP-Columbia Presby.	1224	3	0.25	0.55	0.46	(0.09, 1.34)	1220	0.36
NYP-Weill Cornell	53	0	0.00	0.71	0.00	(0.00,10.04)	53	0.00
<b>Musso J</b>	<b>13</b>	<b>0</b>	<b>0.00</b>	<b>0.20</b>	<b>0.00</b>	<b>(0.00,100.0)</b>	<b>13</b>	<b>0.00</b>
Long Island Jewish MC	4	0	0.00	0.22	0.00	(0.00,100.0)	4	0.00
Winthrop-Univ. Hosp	9	0	0.00	0.20	0.00	(0.00,100.0)	9	0.00
<b>Narins C</b>	<b>478</b>	<b>4</b>	<b>0.84</b>	<b>0.80</b>	<b>1.09</b>	<b>(0.29, 2.79)</b>	<b>315</b>	<b>0.73</b>
Strong Memorial Hosp	477	4	0.84	0.80	1.09	(0.29, 2.79)	314	0.73
Unity Hospital	1	0	0.00	0.29	0.00	(0.00,100.0)	1	0.00
<b>Nassif R</b>	<b>200</b>	<b>4</b>	<b>2.00</b>	<b>0.66</b>	<b>3.13</b>	<b>(0.84, 8.01)</b>	<b>172</b>	<b>1.98</b>
Faxton - St. Lukes	180	3	1.67	0.63	2.73	(0.55, 7.99)	159	2.16
St. Elizabeth Med Ctr	20	1	5.00	0.94	5.52	(0.07,30.69)	13	0.00
<b>Nguyen T</b>	<b>30</b>	<b>0</b>	<b>0.00</b>	<b>0.26</b>	<b>0.00</b>	<b>(0.00,48.65)</b>	<b>30</b>	<b>0.00</b>
Mount Sinai Hospital	1	0	0.00	0.12	0.00	(0.00,100.0)	1	0.00
NYU Hospitals Center	29	0	0.00	0.27	0.00	(0.00,49.44)	29	0.00



Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Ong L S</b>	<b>1459</b>	<b>22</b>	<b>1.51</b>	<b>0.98</b>	<b>1.60</b>	<b>(1.00, 2.42)</b>	<b>1277</b>	<b>0.77</b>
Rochester General Hosp	1421	21	1.48	0.98	1.57	(0.97, 2.40)	1253	0.78
Unity Hospital	38	1	2.63	1.07	2.55	(0.03,14.21)	24	0.00
<b>Ong L Y</b>	<b>394</b>	<b>1</b>	<b>0.25</b>	<b>0.91</b>	<b>0.29</b>	<b>(0.00, 1.60)</b>	<b>342</b>	<b>0.32</b>
Huntington Hospital	80	0	0.00	0.58	0.00	(0.00, 8.22)	70	0.00
Long Island Jewish MC	6	0	0.00	1.65	0.00	(0.00,38.33)	3	0.00
North Shore Univ Hosp	306	1	0.33	0.99	0.34	(0.00, 1.90)	267	0.40
Southside Hospital	2	0	0.00	0.08	0.00	(0.00,100.0)	2	0.00
<b>Palta S</b>	<b>112</b>	<b>0</b>	<b>0.00</b>	<b>0.18</b>	<b>0.00</b>	<b>(0.00,18.70)</b>	<b>112</b>	<b>0.00</b>
Maimonides Medical Ctr	1	0	0.00	0.17	0.00	(0.00,100.0)	1	0.00
NY Methodist Hospital	111	0	0.00	0.18	0.00	(0.00,18.86)	111	0.00
<b>Papadakos S</b>	<b>601</b>	<b>5</b>	<b>0.83</b>	<b>0.80</b>	<b>1.07</b>	<b>(0.35, 2.51)</b>	<b>555</b>	<b>0.88</b>
Lenox Hill Hospital	116	0	0.00	0.41	0.00	(0.00, 7.97)	114	0.00
NYP-Queens	176	3	1.70	1.51	1.17	(0.23, 3.41)	135	1.14
NYU Hospitals Center	37	2	5.41	0.41	13.53 *	(1.52,48.84)	37	8.13 *
North Shore Univ Hosp	272	0	0.00	0.56	0.00	(0.00, 2.48)	269	0.00
<b>Papaleo R</b>	<b>552</b>	<b>5</b>	<b>0.91</b>	<b>0.67</b>	<b>1.41</b>	<b>(0.45, 3.29)</b>	<b>426</b>	<b>1.34</b>
Albany Med. Ctr	233	2	0.86	0.71	1.26	(0.14, 4.54)	199	0.90
Glens Falls Hospital	26	1	3.85	2.10	1.90	(0.02,10.55)	1	0.00
Samaritan Hospital	278	2	0.72	0.49	1.52	(0.17, 5.48)	220	1.83
St. Peters Hospital	15	0	0.00	0.75	0.00	(0.00,33.95)	6	0.00
<b>Papandrea L</b>	<b>80</b>	<b>2</b>	<b>2.50</b>	<b>0.56</b>	<b>4.60</b>	<b>(0.52,16.62)</b>	<b>73</b>	<b>3.19</b>
Albany Med. Ctr	5	0	0.00	0.37	0.00	(0.00,100.0)	4	0.00
Samaritan Hospital	2	0	0.00	0.16	0.00	(0.00,100.0)	2	0.00
St. Peters Hospital	73	2	2.74	0.59	4.84	(0.54,17.47)	67	3.31
<b>Patcha R</b>	<b>237</b>	<b>1</b>	<b>0.42</b>	<b>0.87</b>	<b>0.50</b>	<b>(0.01, 2.79)</b>	<b>184</b>	<b>0.77</b>
Huntington Hospital	174	0	0.00	0.94	0.00	(0.00, 2.32)	124	0.00
North Shore Univ Hosp	44	0	0.00	0.64	0.00	(0.00,13.41)	42	0.00
St. Francis Hospital	19	1	5.26	0.78	6.97	(0.09,38.77)	18	4.85
<b>Patel A</b>	<b>276</b>	<b>2</b>	<b>0.72</b>	<b>1.25</b>	<b>0.60</b>	<b>(0.07, 2.17)</b>	<b>210</b>	<b>0.73</b>
Faxton - St. Lukes	17	1	5.88	1.60	3.80	(0.05,21.15)	8	0.00
St. Elizabeth Med Ctr	259	1	0.39	1.23	0.33	(0.00, 1.81)	202	0.75
<b>Patel N</b>	<b>238</b>	<b>3</b>	<b>1.26</b>	<b>0.80</b>	<b>1.63</b>	<b>(0.33, 4.76)</b>	<b>207</b>	<b>0.45</b>
St. Catherine of Siena	16	0	0.00	1.07	0.00	(0.00,22.15)	14	0.00
Univ. Hosp-Stony Brook	222	3	1.35	0.78	1.79	(0.36, 5.23)	193	0.50
<b>Patel R B</b>	<b>493</b>	<b>9</b>	<b>1.83</b>	<b>0.91</b>	<b>2.08</b>	<b>(0.95, 3.94)</b>	<b>385</b>	<b>2.27 *</b>
Good Sam-West Islip	134	1	0.75	0.77	1.00	(0.01, 5.57)	96	1.72
Southside Hospital	190	6	3.16	1.05	3.12 *	(1.14, 6.78)	145	3.32 *
St. Catherine of Siena	169	2	1.18	0.87	1.42	(0.16, 5.11)	144	0.88
<b>Patel T</b>	<b>885</b>	<b>18</b>	<b>2.03</b>	<b>1.23</b>	<b>1.71</b>	<b>(1.01, 2.71)</b>	<b>705</b>	<b>1.10</b>
Rochester General Hosp	237	5	2.11	1.11	1.97	(0.64, 4.60)	223	1.23
Unity Hospital	648	13	2.01	1.28	1.63	(0.87, 2.79)	482	0.99
<b>Perry-Bottinger L</b>	<b>49</b>	<b>0</b>	<b>0.00</b>	<b>0.38</b>	<b>0.00</b>	<b>(0.00,20.65)</b>	<b>49</b>	<b>0.00</b>
NYP-Columbia Presby.	47	0	0.00	0.34	0.00	(0.00,23.68)	47	0.00
NYP-Queens	2	0	0.00	1.18	0.00	(0.00,100.0)	2	0.00
<b>Petrossian G</b>	<b>907</b>	<b>7</b>	<b>0.77</b>	<b>0.98</b>	<b>0.82</b>	<b>(0.33, 1.69)</b>	<b>884</b>	<b>0.61</b>
South Nassau Com. Hosp	56	1	1.79	0.41	4.52	(0.06,25.13)	55	3.40
St. Francis Hospital	851	6	0.71	1.02	0.72	(0.26, 1.57)	829	0.54

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Phadke K</b>	<b>798</b>	<b>9</b>	<b>1.13</b>	<b>0.90</b>	<b>1.30</b>	<b>(0.59, 2.47)</b>	<b>564</b>	<b>0.44</b>
Buffalo General Hosp	486	8	1.65	1.04	1.64	(0.70, 3.22)	312	0.73
Erie County Med Ctr	2	0	0.00	0.12	0.00	(0.00,100.0)	2	0.00
Mercy Hospital	14	0	0.00	0.19	0.00	(0.00,100.0)	13	0.00
Millard Fillmore Hosp	296	1	0.34	0.70	0.50	(0.01, 2.80)	237	0.00
<b>Polena S</b>	<b>338</b>	<b>4</b>	<b>1.18</b>	<b>0.67</b>	<b>1.82</b>	<b>(0.49, 4.66)</b>	<b>290</b>	<b>1.23</b>
Huntington Hospital	296	4	1.35	0.65	2.15	(0.58, 5.50)	248	1.60
Long Island Jewish MC	31	0	0.00	0.88	0.00	(0.00,13.95)	31	0.00
North Shore Univ Hosp	11	0	0.00	0.71	0.00	(0.00,48.98)	11	0.00
<b>Pucillo A</b>	<b>258</b>	<b>2</b>	<b>0.78</b>	<b>0.92</b>	<b>0.87</b>	<b>(0.10, 3.16)</b>	<b>231</b>	<b>1.00</b>
NYP-Columbia Presby.	186	0	0.00	0.76	0.00	(0.00, 2.68)	172	0.00
Westchester Med Ctr	72	2	2.78	1.32	2.18	(0.24, 7.88)	59	2.35
<b>Puma A</b>	<b>204</b>	<b>2</b>	<b>0.98</b>	<b>0.44</b>	<b>2.30</b>	<b>(0.26, 8.29)</b>	<b>195</b>	<b>0.83</b>
Jamaica Hosp Med Ctr	7	1	14.29	1.63	9.11	(0.12,50.70)	.	.
Lenox Hill Hospital	129	0	0.00	0.43	0.00	(0.00, 6.91)	127	0.00
Mount Sinai Beth Israel	51	1	1.96	0.35	5.74	(0.08,31.95)	51	4.21
NYP-Columbia Presby.	17	0	0.00	0.34	0.00	(0.00,65.58)	17	0.00
<b>Pyo R</b>	<b>368</b>	<b>13</b>	<b>3.53</b>	<b>1.51</b>	<b>2.42 *</b>	<b>(1.29, 4.14)</b>	<b>290</b>	<b>1.56</b>
Elmhurst Hospital Ctr	57	5	8.77	3.62	2.52	(0.81, 5.87)	5	0.00
Good Sam - Suffern	122	3	2.46	1.11	2.29	(0.46, 6.68)	110	1.69
Mount Sinai Hospital	189	5	2.65	1.14	2.41	(0.78, 5.62)	175	1.53
<b>Raza J</b>	<b>473</b>	<b>8</b>	<b>1.69</b>	<b>0.86</b>	<b>2.05</b>	<b>(0.88, 4.03)</b>	<b>354</b>	<b>0.73</b>
Jamaica Hosp Med Ctr	194	6	3.09	1.45	2.21	(0.81, 4.81)	79	1.22
Lenox Hill Hospital	279	2	0.72	0.45	1.67	(0.19, 6.03)	275	0.52
<b>Rehman A</b>	<b>475</b>	<b>7</b>	<b>1.47</b>	<b>1.00</b>	<b>1.52</b>	<b>(0.61, 3.14)</b>	<b>352</b>	<b>1.62</b>
South Nassau Com. Hosp	361	5	1.39	0.98	1.46	(0.47, 3.41)	245	1.90
St. Francis Hospital	114	2	1.75	1.07	1.71	(0.19, 6.16)	107	1.33
<b>Reich D</b>	<b>678</b>	<b>5</b>	<b>0.74</b>	<b>0.80</b>	<b>0.96</b>	<b>(0.31, 2.24)</b>	<b>594</b>	<b>0.21</b>
Good Sam-West Islip	315	1	0.32	0.51	0.64	(0.01, 3.58)	267	0.75
Southside Hospital	312	4	1.28	1.15	1.15	(0.31, 2.96)	276	0.00
St. Francis Hospital	51	0	0.00	0.39	0.00	(0.00,18.95)	51	0.00
<b>Rentrop K</b>	<b>83</b>	<b>0</b>	<b>0.00</b>	<b>0.26</b>	<b>0.00</b>	<b>(0.00,17.32)</b>	<b>83</b>	<b>0.00</b>
Lenox Hill Hospital	6	0	0.00	0.19	0.00	(0.00,100.0)	6	0.00
NYP-Columbia Presby.	73	0	0.00	0.28	0.00	(0.00,18.69)	73	0.00
NYU Hospitals Center	4	0	0.00	0.12	0.00	(0.00,100.0)	4	0.00
<b>Roccario E</b>	<b>520</b>	<b>7</b>	<b>1.35</b>	<b>1.44</b>	<b>0.97</b>	<b>(0.39, 2.00)</b>	<b>345</b>	<b>0.52</b>
Samaritan Hospital	1	1	100.00	5.40	19.19	(0.25, 100.0)	.	.
St. Peters Hospital	519	6	1.16	1.43	0.84	(0.31, 1.82)	345	0.52
<b>Rosenband M</b>	<b>259</b>	<b>0</b>	<b>0.00</b>	<b>1.03</b>	<b>0.00</b>	<b>(0.00, 1.42)</b>	<b>227</b>	<b>0.00</b>
St. Catherine of Siena	114	0	0.00	1.11	0.00	(0.00, 3.02)	90	0.00
St. Francis Hospital	1	0	0.00	1.05	0.00	(0.00,100.0)	1	0.00
Univ. Hosp-Stony Brook	144	0	0.00	0.98	0.00	(0.00, 2.70)	136	0.00
<b>Rosero H</b>	<b>411</b>	<b>8</b>	<b>1.95</b>	<b>0.85</b>	<b>2.37</b>	<b>(1.02, 4.68)</b>	<b>349</b>	<b>1.25</b>
Mount Sinai Beth Israel	396	8	2.02	0.86	2.44 *	(1.05, 4.80)	337	1.29
Univ. Brooklyn @ LICH	15	0	0.00	0.59	0.00	(0.00,42.67)	12	0.00
<b>Roubin G</b>	<b>61</b>	<b>0</b>	<b>0.00</b>	<b>0.55</b>	<b>0.00</b>	<b>(0.00,11.35)</b>	<b>58</b>	<b>0.00</b>
Lenox Hill Hospital	43	0	0.00	0.52	0.00	(0.00,17.12)	40	0.00
Mount Sinai Beth Israel	2	0	0.00	2.42	0.00	(0.00,78.53)	2	0.00
Mount Sinai St. Lukes	16	0	0.00	0.40	0.00	(0.00,58.93)	16	0.00

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Royzman R</b>	<b>253</b>	<b>6</b>	<b>2.37</b>	<b>2.58</b>	<b>0.95</b>	<b>(0.35, 2.08)</b>	<b>140</b>	<b>1.37</b>
Good Sam - Suffern	12	2	16.67	7.31	2.36	(0.27, 8.53)	2	0.00
Lutheran Medical Ctr	57	1	1.75	4.69	0.39	(0.01, 2.16)	27	0.00
Staten Island Univ Hosp	184	3	1.63	1.61	1.05	(0.21, 3.06)	111	1.75
<b>Rutkin B</b>	<b>289</b>	<b>3</b>	<b>1.04</b>	<b>1.25</b>	<b>0.86</b>	<b>(0.17, 2.51)</b>	<b>194</b>	<b>0.43</b>
Long Island Jewish MC	18	0	0.00	1.19	0.00	(0.00,17.73)	1	0.00
North Shore Univ Hosp	271	3	1.11	1.26	0.91	(0.18, 2.66)	193	0.43
<b>Sassower M</b>	<b>854</b>	<b>13</b>	<b>1.52</b>	<b>1.06</b>	<b>1.50</b>	<b>(0.80, 2.56)</b>	<b>731</b>	<b>0.87</b>
Faxton - St. Lukes	49	2	4.08	1.97	2.15	(0.24, 7.75)	36	0.00
St. Elizabeth Med Ctr	805	11	1.37	1.00	1.42	(0.71, 2.54)	695	0.94
<b>Schwartz R</b>	<b>916</b>	<b>5</b>	<b>0.55</b>	<b>1.19</b>	<b>0.48</b>	<b>(0.15, 1.11)</b>	<b>808</b>	<b>0.33</b>
North Shore Univ Hosp	7	0	0.00	0.21	0.00	(0.00,100.0)	7	0.00
Winthrop-Univ. Hosp	909	5	0.55	1.19	0.48	(0.15, 1.12)	801	0.33
<b>Sehhat K</b>	<b>152</b>	<b>0</b>	<b>0.00</b>	<b>0.43</b>	<b>0.00</b>	<b>(0.00, 5.85)</b>	<b>151</b>	<b>0.00</b>
Montefiore - Moses	32	0	0.00	0.43	0.00	(0.00,27.44)	31	0.00
Mount Sinai Beth Israel	2	0	0.00	0.08	0.00	(0.00,100.0)	2	0.00
NYP-Columbia Presby.	118	0	0.00	0.43	0.00	(0.00, 7.46)	118	0.00
<b>Seldon M</b>	<b>11</b>	<b>0</b>	<b>0.00</b>	<b>0.24</b>	<b>0.00</b>	<b>(0.00,100.0)</b>	<b>11</b>	<b>0.00</b>
Lenox Hill Hospital	3	0	0.00	0.33	0.00	(0.00,100.0)	3	0.00
Mount Sinai Beth Israel	1	0	0.00	0.18	0.00	(0.00,100.0)	1	0.00
NYU Hospitals Center	7	0	0.00	0.21	0.00	(0.00,100.0)	7	0.00
<b>Serrano-Gomez C</b>	<b>100</b>	<b>1</b>	<b>1.00</b>	<b>0.93</b>	<b>1.12</b>	<b>(0.01, 6.21)</b>	<b>80</b>	<b>2.27</b>
Bellevue Hospital Ctr	16	0	0.00	2.97	0.00	(0.00, 8.00)	1	0.00
Elmhurst Hospital Ctr	7	0	0.00	0.24	0.00	(0.00,100.0)	7	0.00
Mount Sinai Hospital	7	0	0.00	0.26	0.00	(0.00,100.0)	7	0.00
Mount Sinai St. Lukes	1	0	0.00	0.23	0.00	(0.00,100.0)	1	0.00
NYU Hospitals Center	69	1	1.45	0.60	2.49	(0.03,13.85)	64	2.67
<b>Shah A</b>	<b>391</b>	<b>1</b>	<b>0.26</b>	<b>0.56</b>	<b>0.47</b>	<b>(0.01, 2.63)</b>	<b>384</b>	<b>0.34</b>
Mount Sinai Hospital	4	0	0.00	0.21	0.00	(0.00,100.0)	4	0.00
NY Methodist Hospital	376	1	0.27	0.57	0.48	(0.01, 2.68)	369	0.35
NYU Hospitals Center	11	0	0.00	0.26	0.00	(0.00,100.0)	11	0.00
<b>Shah N</b>	<b>276</b>	<b>5</b>	<b>1.81</b>	<b>2.03</b>	<b>0.92</b>	<b>(0.30, 2.16)</b>	<b>222</b>	<b>0.51</b>
St. Lukes Cornwall Hosp	270	5	1.85	2.07	0.93	(0.30, 2.17)	216	0.52
Vassar Bros. Med Ctr	6	0	0.00	0.41	0.00	(0.00,100.0)	6	0.00
<b>Shapira S</b>	<b>406</b>	<b>6</b>	<b>1.48</b>	<b>1.17</b>	<b>1.31</b>	<b>(0.48, 2.84)</b>	<b>307</b>	<b>0.31</b>
Good Sam - Suffern	3	0	0.00	0.20	0.00	(0.00,100.0)	3	0.00
Orange Regional Med Ctr	403	6	1.49	1.18	1.31	(0.48, 2.84)	304	0.31
<b>Sherman W</b>	<b>138</b>	<b>3</b>	<b>2.17</b>	<b>1.93</b>	<b>1.17</b>	<b>(0.23, 3.41)</b>	<b>108</b>	<b>0.72</b>
M I Bassett Hospital	2	0	0.00	0.27	0.00	(0.00,100.0)	2	0.00
NY Methodist Hospital	7	0	0.00	0.23	0.00	(0.00,100.0)	7	0.00
NYP-Columbia Presby.	124	2	1.61	2.04	0.82	(0.09, 2.96)	94	0.00
White Plains Hospital	5	1	20.00	2.19	9.47	(0.12,52.69)	5	8.83
<b>Shih A T</b>	<b>185</b>	<b>3</b>	<b>1.62</b>	<b>1.07</b>	<b>1.57</b>	<b>(0.31, 4.58)</b>	<b>149</b>	<b>0.64</b>
Montefiore - Moses	69	2	2.90	1.32	2.28	(0.26, 8.23)	44	0.00
Mount Sinai Hospital	14	0	0.00	0.36	0.00	(0.00,75.48)	13	0.00
Westchester Med Ctr	102	1	0.98	1.01	1.01	(0.01, 5.62)	92	0.92
<b>Shohat E</b>	<b>83</b>	<b>0</b>	<b>0.00</b>	<b>0.30</b>	<b>0.00</b>	<b>(0.00,15.46)</b>	<b>83</b>	<b>0.00</b>
Maimonides Medical Ctr	28	0	0.00	0.28	0.00	(0.00,47.83)	28	0.00
NY Methodist Hospital	26	0	0.00	0.33	0.00	(0.00,44.92)	26	0.00
Univ. Hosp-Brooklyn	29	0	0.00	0.28	0.00	(0.00,46.48)	29	0.00

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Silverman G</b>	<b>485</b>	<b>8</b>	<b>1.65</b>	<b>0.92</b>	<b>1.85</b>	<b>(0.80, 3.64)</b>	<b>317</b>	<b>1.57</b>
Montefiore - Weiler	65	3	4.62	0.84	5.72 *	(1.15,16.71)	48	5.61
Orange Regional Med Ctr	338	2	0.59	0.88	0.69	(0.08, 2.51)	227	0.56
Westchester Med Ctr	82	3	3.66	1.17	3.25	(0.65, 9.51)	42	2.50
<b>Singer G</b>	<b>415</b>	<b>4</b>	<b>0.96</b>	<b>0.85</b>	<b>1.18</b>	<b>(0.32, 3.01)</b>	<b>377</b>	<b>0.49</b>
Rochester General Hosp	369	1	0.27	0.73	0.39	(0.01, 2.15)	341	0.29
Unity Hospital	46	3	6.52	1.83	3.70	(0.74,10.80)	36	1.45
<b>Singh V</b>	<b>1027</b>	<b>4</b>	<b>0.39</b>	<b>0.57</b>	<b>0.71</b>	<b>(0.19, 1.82)</b>	<b>1007</b>	<b>0.56</b>
Lenox Hill Hospital	321	2	0.62	0.52	1.25	(0.14, 4.52)	317	0.98
NYP-Columbia Presby.	706	2	0.28	0.59	0.50	(0.06, 1.79)	690	0.30
<b>Slater J</b>	<b>473</b>	<b>5</b>	<b>1.06</b>	<b>0.61</b>	<b>1.78</b>	<b>(0.57, 4.16)</b>	<b>428</b>	<b>1.16</b>
Bellevue Hospital Ctr	14	0	0.00	2.42	0.00	(0.00,11.23)	2	0.00
Lenox Hill Hospital	10	0	0.00	0.39	0.00	(0.00,97.33)	10	0.00
Mount Sinai St. Lukes	3	0	0.00	0.19	0.00	(0.00,100.0)	3	0.00
NYU Hospitals Center	446	5	1.12	0.57	2.06	(0.66, 4.80)	413	1.21
<b>Slotwiner A</b>	<b>187</b>	<b>1</b>	<b>0.53</b>	<b>1.90</b>	<b>0.29</b>	<b>(0.00, 1.62)</b>	<b>155</b>	<b>0.26</b>
NY Methodist Hospital	4	0	0.00	0.71	0.00	(0.00,100.0)	4	0.00
NYP-Weill Cornell	183	1	0.55	1.93	0.29	(0.00, 1.63)	151	0.26
<b>Slovut D</b>	<b>155</b>	<b>2</b>	<b>1.29</b>	<b>1.75</b>	<b>0.76</b>	<b>(0.09, 2.76)</b>	<b>86</b>	<b>0.00</b>
Montefiore - Moses	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
Montefiore - Weiler	154	2	1.30	1.76	0.76	(0.09, 2.76)	85	0.00
<b>Soffer D</b>	<b>158</b>	<b>0</b>	<b>0.00</b>	<b>0.58</b>	<b>0.00</b>	<b>(0.00, 4.15)</b>	<b>146</b>	<b>0.00</b>
Jamaica Hosp Med Ctr	8	0	0.00	1.04	0.00	(0.00,45.73)	.	.
<b>Lenox Hill Hospital</b>	<b>69</b>	<b>0</b>	<b>0.00</b>	<b>0.42</b>	<b>0.00</b>	<b>(0.00,13.05)</b>	<b>66</b>	<b>0.00</b>
Mount Sinai Hospital	81	0	0.00	0.67	0.00	(0.00, 7.01)	80	0.00
<b>Srinivas V</b>	<b>459</b>	<b>8</b>	<b>1.74</b>	<b>1.43</b>	<b>1.27</b>	<b>(0.54, 2.49)</b>	<b>374</b>	<b>0.94</b>
Montefiore - Moses	17	0	0.00	0.58	0.00	(0.00,38.64)	15	0.00
Montefiore - Weiler	440	8	1.82	1.46	1.29	(0.56, 2.54)	358	0.97
St. Barnabas Hospital	2	0	0.00	1.24	0.00	(0.00,100.0)	1	0.00
<b>Srivastava S</b>	<b>80</b>	<b>1</b>	<b>1.25</b>	<b>0.38</b>	<b>3.42</b>	<b>(0.04,19.04)</b>	<b>80</b>	<b>2.21</b>
NY Methodist Hospital	10	1	10.00	0.70	14.74	(0.19,81.99)	10	10.81
NYU Hospitals Center	67	0	0.00	0.26	0.00	(0.00,21.84)	67	0.00
Univ. Brooklyn @ LICH	3	0	0.00	1.95	0.00	(0.00,64.98)	3	0.00
<b>Staniloae C</b>	<b>137</b>	<b>1</b>	<b>0.73</b>	<b>0.72</b>	<b>1.06</b>	<b>(0.01, 5.87)</b>	<b>117</b>	<b>1.44</b>
Bellevue Hospital Ctr	30	1	3.33	1.41	2.46	(0.03,13.68)	14	13.95
Lenox Hill Hospital	2	0	0.00	0.16	0.00	(0.00,100.0)	2	0.00
NYU Hospitals Center	105	0	0.00	0.53	0.00	(0.00, 6.82)	101	0.00
<b>Stathopoulos I</b>	<b>257</b>	<b>1</b>	<b>0.39</b>	<b>0.54</b>	<b>0.74</b>	<b>(0.01, 4.13)</b>	<b>254</b>	<b>0.46</b>
Lenox Hill Hospital	108	1	0.93	0.65	1.47	(0.02, 8.18)	106	0.91
NYP-Columbia Presby.	149	0	0.00	0.47	0.00	(0.00, 5.49)	148	0.00
<b>Stefek P</b>	<b>248</b>	<b>2</b>	<b>0.81</b>	<b>1.09</b>	<b>0.77</b>	<b>(0.09, 2.77)</b>	<b>160</b>	<b>1.12</b>
Cayuga Med Ctr Ithaca	232	2	0.86	1.15	0.78	(0.09, 2.82)	144	1.16
Rochester General Hosp	16	0	0.00	0.29	0.00	(0.00,81.67)	16	0.00
<b>Strizik B</b>	<b>324</b>	<b>2</b>	<b>0.62</b>	<b>1.00</b>	<b>0.64</b>	<b>(0.07, 2.31)</b>	<b>267</b>	<b>0.59</b>
Huntington Hospital	132	0	0.00	0.96	0.00	(0.00, 2.99)	92	0.00
Long Island Jewish MC	3	0	0.00	1.16	0.00	(0.00,100.0)	2	0.00
North Shore Univ Hosp	189	2	1.06	1.02	1.07	(0.12, 3.87)	173	0.86
<b>Sullivan P</b>	<b>131</b>	<b>1</b>	<b>0.76</b>	<b>0.61</b>	<b>1.29</b>	<b>(0.02, 7.16)</b>	<b>104</b>	<b>0.00</b>
Buffalo General Hosp	81	1	1.23	0.64	2.00	(0.03,11.14)	66	0.00
Mercy Hospital	48	0	0.00	0.58	0.00	(0.00,13.55)	37	0.00
Millard Fillmore Hosp	2	0	0.00	0.35	0.00	(0.00,100.0)	1	0.00

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Timmermans R</b>	<b>202</b>	<b>3</b>	<b>1.49</b>	<b>1.61</b>	<b>0.95</b>	<b>(0.19, 2.79)</b>	<b>123</b>	<b>0.00</b>
Orange Regional Med Ctr	2	0	0.00	1.17	0.00	(0.00,100.0)	2	0.00
Westchester Med Ctr	200	3	1.50	1.62	0.96	(0.19, 2.81)	121	0.00
<b>Tsiamtsiouris T</b>	<b>351</b>	<b>3</b>	<b>0.85</b>	<b>1.54</b>	<b>0.58</b>	<b>(0.12, 1.69)</b>	<b>291</b>	<b>0.52</b>
St. Catherine of Siena	7	0	0.00	1.41	0.00	(0.00,38.61)	.	.
St. Francis Hospital	344	3	0.87	1.54	0.59	(0.12, 1.72)	291	0.52
<b>Varma P</b>	<b>253</b>	<b>4</b>	<b>1.58</b>	<b>1.52</b>	<b>1.08</b>	<b>(0.29, 2.76)</b>	<b>187</b>	<b>0.45</b>
Faxton - St. Lukes	27	0	0.00	1.27	0.00	(0.00,11.09)	17	0.00
St. Elizabeth Med Ctr	226	4	1.77	1.55	1.18	(0.32, 3.02)	170	0.52
<b>Vidyarathi V</b>	<b>8</b>	<b>0</b>	<b>0.00</b>	<b>0.27</b>	<b>0.00</b>	<b>(0.00, 100.0)</b>	<b>8</b>	<b>0.00</b>
North Shore Univ Hosp	4	0	0.00	0.39	0.00	(0.00,100.0)	4	0.00
St. Francis Hospital	4	0	0.00	0.15	0.00	(0.00,100.0)	4	0.00
<b>Weinstein J</b>	<b>467</b>	<b>4</b>	<b>0.86</b>	<b>1.08</b>	<b>0.82</b>	<b>(0.22, 2.10)</b>	<b>406</b>	<b>0.57</b>
St. Catherine of Siena	77	1	1.30	0.98	1.37	(0.02, 7.64)	47	0.00
Univ. Hosp-Stony Brook	390	3	0.77	1.10	0.72	(0.15, 2.11)	359	0.61
<b>Wilentz J</b>	<b>213</b>	<b>0</b>	<b>0.00</b>	<b>0.49</b>	<b>0.00</b>	<b>(0.00, 3.67)</b>	<b>201</b>	<b>0.00</b>
Lenox Hill Hospital	84	0	0.00	0.68	0.00	(0.00, 6.64)	72	0.00
Mount Sinai Beth Israel	1	0	0.00	0.26	0.00	(0.00, 100.0)	1	0.00
NYP-Weill Cornell	128	0	0.00	0.36	0.00	(0.00, 8.24)	128	0.00
<b>Witkes D</b>	<b>148</b>	<b>0</b>	<b>0.00</b>	<b>0.54</b>	<b>0.00</b>	<b>(0.00, 4.79)</b>	<b>141</b>	<b>0.00</b>
North Shore Univ Hosp	122	0	0.00	0.46	0.00	(0.00, 6.72)	117	0.00
Winthrop-Univ. Hosp	26	0	0.00	0.88	0.00	(0.00,16.65)	24	0.00
<b>Yadav S</b>	<b>440</b>	<b>4</b>	<b>0.91</b>	<b>0.32</b>	<b>2.93</b>	<b>(0.79, 7.49)</b>	<b>434</b>	<b>1.94</b>
Long Island Jewish MC	43	0	0.00	0.30	0.00	(0.00,29.30)	42	0.00
Mount Sinai Hospital	44	0	0.00	0.20	0.00	(0.00,42.81)	44	0.00
NY Methodist Hospital	322	3	0.93	0.28	3.49	(0.70,10.21)	321	2.24
NYU Hospitals Center	3	0	0.00	0.17	0.00	(0.00,100.0)	3	0.00
St. Francis Hospital	28	1	3.57	1.08	3.42	(0.04,19.01)	24	2.37
<b>Yang Y</b>	<b>171</b>	<b>0</b>	<b>0.00</b>	<b>0.48</b>	<b>0.00</b>	<b>(0.00, 4.68)</b>	<b>162</b>	<b>0.00</b>
Jamaica Hosp Med Ctr	6	0	0.00	2.15	0.00	(0.00,29.54)	.	.
Lenox Hill Hospital	85	0	0.00	0.49	0.00	(0.00, 9.08)	82	0.00
NYP-Weill Cornell	80	0	0.00	0.33	0.00	(0.00,14.31)	80	0.00
<b>Yatskar L</b>	<b>489</b>	<b>5</b>	<b>1.02</b>	<b>1.32</b>	<b>0.81</b>	<b>(0.26, 1.88)</b>	<b>374</b>	<b>0.38</b>
Bellevue Hospital Ctr	21	0	0.00	0.56	0.00	(0.00,32.23)	18	0.00
Elmhurst Hospital Ctr	413	5	1.21	1.49	0.84	(0.27, 1.97)	304	0.44
NYU Hospitals Center	55	0	0.00	0.30	0.00	(0.00,22.83)	52	0.00
<b>Zisfein J</b>	<b>419</b>	<b>2</b>	<b>0.48</b>	<b>0.85</b>	<b>0.58</b>	<b>(0.07, 2.09)</b>	<b>368</b>	<b>0.29</b>
South Nassau Com. Hosp	363	1	0.28	0.82	0.35	(0.00, 1.94)	312	0.00
St. Francis Hospital	28	0	0.00	1.23	0.00	(0.00,11.04)	28	0.00
Winthrop-Univ. Hosp	28	1	3.57	0.94	3.94	(0.05,21.94)	28	2.44

\* 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 (2013)

Based on Documentation in Medical Record

Patient Risk Factor	Definitions
<b>Demographic</b>	
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:  <math>BMI = \text{Weight} / \text{Height}^2</math> where Height is height in meters (m) and Weight is weight in kilograms (kg).</p>
<b>Hemodynamic State</b>	
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 &lt; 80 mmHg) or low cardiac index (&lt; 2.0 liters/min/m<sup>2</sup>), despite pharmacologic or mechanical support. All cases with this risk factor are excluded from this report.</p>
<b>Comorbidities</b>	
Cerebrovascular Disease	<p>The patient has cerebrovascular disease, documented by any one of the following:</p> <ul style="list-style-type: none"> <li>• CVA (symptoms &gt; 24 hrs after onset, presumed to be from vascular etiology);</li> <li>• TIA (recovery within 24 hrs);</li> <li>• Non-invasive carotid test with &gt; 79% diameter occlusion.; or</li> <li>• Prior carotid surgery or stenting or prior cerebral aneurysm clipping or coil.</li> </ul>
Congestive Heart Failure (CHF), Current	<p>Within 2 weeks prior to the procedure, the patient has a clinical diagnosis of CHF and symptoms requiring treatment for CHF.</p> <p>Note: Physician diagnosis of CHF may be based on one of the following:</p> <ul style="list-style-type: none"> <li>• Paroxysmal nocturnal dyspnea (PND)</li> <li>• Dyspnea on exertion (DOE) due to heart failure</li> <li>• Chest X-Ray showing pulmonary congestion</li> </ul> <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.</p> <p>Note: Physician diagnosis of CHF may be based on one of the following:</p> <ul style="list-style-type: none"> <li>• Paroxysmal nocturnal dyspnea (PND)</li> <li>• Dyspnea on exertion (DOE) due to heart failure</li> <li>• Chest X-Ray showing pulmonary congestion</li> </ul> <p>Documentation must include a diagnosis of CHF and evidence of treatment for CHF. Patient's clinical status may be compensated.</p>

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**Comorbidities, *continued***

Chronic Lung Disease	<p>The patient has chronic lung disease, and the severity level according to the following classification:</p> <ul style="list-style-type: none"><li>• Mild - FEV1 60% to 75% of predicted, and/or on chronic inhaled or oral bronchodilator therapy.</li><li>• Moderate - FEV1 50% to 59% of predicted, and/or on chronic steroid therapy aimed at lung disease.</li><li>• Severe - FEV1 &lt;50% predicted, and/or Room Air pO<sub>2</sub> &lt; 60 or Room Air pCO<sub>2</sub> &gt; 50.</li></ul>
Diabetes with Insulin therapy	<p>The patient has a diagnosis of Diabetes Mellitus and is taking insulin prior to admission.</p>
Diabetes requiring medication	<p>The patient has a diagnosis of Diabetes Mellitus and is taking either Insulin or Oral medication.</p>
Malignant Ventricular Arrhythmia	<p>Recent (within the past 14 days) sustained ventricular tachycardia requiring electrical defibrillation or conversion with intravenous antiarrhythmic agents or ventricular fibrillation requiring electrical defibrillation. Excludes V-Tach or V-Fib occurring within 6 hours of the diagnosis of a myocardial infarction and responding well to treatment.</p>
Peripheral Vascular Disease	<p>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 &lt;0.9 is also acceptable documentation.</p>
Previous Organ Transplant	<p>The patient has had any organ transplant prior to the PCI. This includes, but is not limited to: heart, lung, kidney, and liver transplants.</p>
Renal Failure, Creatinine	<p>Pre-PCI creatinine during the hospital admission was within the indicated range.</p> <p>Note: For 2010-2011, creatinine values were for the highest pre-PCI value in the admission. For 2012-2013, the pre-PCI value closest to the procedure is reported.</p>
Renal Failure, Dialysis	<p>The patient is on chronic peritoneal or hemodialysis.</p>

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**Ventricular Function**

Previous MI	<p>Most recent myocardial infarction (MI) occurred in the specified time period before the intervention.</p>
ST Elevation	<p>EKG evidence of STEMI and cardiac biomarkers exceeding the upper limit of normal.</p>
Ejection Fraction	<p>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.</p>
Previous PCI	<p>The patient has had one or more previous PCIs.</p>

## 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.

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## 2013 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.
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# MEDICAL TERMINOLOGY

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**angina pectoris** – The pain or discomfort felt when blood flow to the heart muscle is impeded by blockages in the coronary arteries. This can also be caused by an arterial spasm.

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

**atherosclerosis** – One form of arteriosclerosis in which plaques or fatty deposits form in the inner layer of the arteries.

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

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

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

**coronary artery bypass graft surgery (CABG)** – A procedure in which a vein or artery from another part of the body is used to create an alternate path for blood to flow to the heart, bypassing the arterial blockage. Typically, a section of one of the large saphenous veins in the leg, the radial artery in the arm or the mammary artery in the chest is used to construct the bypass. One or more bypasses may be performed during a single operation. When no other major heart surgery (such as valve replacement) is included, the operation is referred to as an isolated CABG.

**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

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## 2013 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 2013 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 “Diabetes with Insulin therapy” is 1.468. This means that a patient with Diabetes with Insulin therapy is approximately 1.468 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 Diabetes with Insulin therapy who has the same other significant risk factors. The risk factors Female Gender, Hemodynamically Unstable, Left Main Disease and Two of Three Vessels Diseased are also interpreted in the same way.

With regard to age, the odds ratio roughly represents the number of times more likely a patient who is over age 55 is to die 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 1.046 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.

Ejection Fraction, which is the percentage of blood in the heart’s left ventricle that is expelled when it contracts (with more denoting a healthier heart), is subdivided into five ranges (less than 20 percent, 20 percent to 29 percent, 30 percent to 39 percent, 40 percent to 49 percent and 50 percent or more). The last range is referred to as the reference category. This

means that the odds ratio that appears for the other Ejection Fraction categories in the table is relative to patients with an ejection fraction of 50 percent or more. Thus, a PCI patient with an ejection fraction of less than 20 percent is about 6.487 times as likely to die in the hospital or within 30 days as a patient with an ejection fraction of 50 percent or higher, all other significant risk factors being the same.

Previous MI is subdivided into eight ranges (with ST Elevation present, occurring less than six hours prior, six to eleven hours prior, twelve to twenty-three hours prior; without ST Elevation, less than six hours prior, six to eleven hours prior, twelve to twenty-three hours prior; with or without ST Elevation, one to 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.

In this model Chronic Lung Disease is divided into four categories: Mild, Moderate, Severe, and None. The odds ratios for patients with each of the first three levels are compared to patients with no chronic lung disease.

Congestive Heart Failure (CHF) 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 CHF within 6 months). 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 six groups. Four categories represent patients with various levels of elevated creatinine, but no dialysis. The fifth 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 1.2 mg/dL.

# Appendix 1

## Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2013 (All Cases)

Patient Risk Factors	Prevalence (%)	Logistic Regression		
		Regression Coefficient	P value	Odds Ratio
<b>Demographic</b>				
Age: number of years > 55	--	0.0449	<.0001	1.046
Female	29.96	0.3208	0.0010	1.378
<b>Hemodynamic Status</b>				
Unstable	0.56	1.8999	<.0001	6.685
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 50% or greater	71.62	-- Reference --		1.000
Ejection Fraction less than 20%	0.85	1.8698	<.0001	6.487
Ejection Fraction 20-29%	4.09	1.2997	<.0001	3.668
Ejection Fraction 30-39%	7.94	0.9108	<.0001	2.486
Ejection Fraction 40-49%	15.50	0.4357	0.0009	1.546
Pre-Procedural MI				
No MI within 14 Days	66.14	-- Reference --		1.000
MI with ST Elevation				
MI < 6 hrs	9.92	1.9367	<.0001	6.936
MI 6-11 hrs	1.75	1.8686	<.0001	6.479
MI 12 – 23 hrs	0.85	2.1325	<.0001	8.436
MI without ST Elevation				
MI < 6 hrs	0.83	1.0933	0.0042	2.984
MI 6-11 hrs	1.43	0.8519	0.0272	2.344
MI 12 – 23 hrs	3.00	1.1767	<.0001	3.244
MI with or without ST Elevation				
MI 1-14 days	16.09	0.9226	<.0001	2.516
<b>Comorbidities</b>				
Diabetes with Insulin therapy	14.62	0.3836	0.0010	1.468
Chronic Lung Disease				
None	93.80	-- Reference --		1.000
Mild	3.04	0.5207	0.0085	1.683
Moderate	2.80	0.7626	<.0001	2.144
Severe	0.36	1.5065	<.0001	4.511
Congestive Heart Failure (CHF)				
No CHF within 6 months	89.69	-- Reference --		1.000
CHF, Current (within 2 weeks)	6.56	0.6906	<.0001	1.995
CHF, Past but not current (2 wks - 6 mon)	3.75	0.3851	0.0358	1.470
Renal Failure				
No Renal Dialysis and Creatinine < 1.2 mg/dL	70.89	-- Reference --		1.000
Creatinine 1.2 - 1.5 mg/dL	19.60	0.4069	0.0004	1.502
Creatinine 1.6 - 2.0 mg/dL	4.77	0.5917	0.0002	1.807
Creatinine 2.1 - 2.5 mg/dL	1.13	0.9511	<.0001	2.589
Creatinine > 2.5 mg/dL	1.02	1.3275	<.0001	3.772
Renal Dialysis	2.58	1.5039	<.0001	4.499
<b>Vessels Diseased</b>				
Left Main Disease	4.56	0.6917	<.0001	1.997
Two or Three Vessels Diseased	45.91	0.3559	0.0002	1.428

Intercept = -7.2679

C Statistic = 0.868

## Appendix 2

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### 2013 Risk Factors For In-Hospital/30-Day Mortality For Non-Emergency PCI

Appendix 2 contains the significant pre-procedural risk factors for 2013 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 Ejection Fraction, Chronic Lung Disease, Diabetes with Insulin therapy and Left Main Disease are 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 these patients is relative to

patients who have not had an MI within fourteen days prior to PCI.

Likewise, in this model there is only one category for Congestive Heart Failure. The odds ratio for patients with CHF in the past two weeks is relative to patients who did not have CHF within two weeks.

Renal Failure is interpreted in the same way as Appendix 1, although there are only four categories in this model.

This model has three categories for number of vessels diseased: two vessels, three vessels and fewer than two. Odds ratios for the first two categories are relative to patients with fewer than two vessels diseased.

## Appendix 2

### Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2013 (Non-Emergency Cases)

Patient Risk Factors	Prevalence (%)	Logistic Regression		
		Regression Coefficient	P value	Odds Ratio
<b>Demographic</b>				
Age: number of years > 65	--	0.0517	<.0001	1.053
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 50% or greater	76.42	– Reference –		1.000
Ejection Fraction less than 20%	0.72	1.6598	<.0001	5.258
Ejection Fraction 20-29%	3.50	1.1433	<.0001	3.137
Ejection Fraction 30-39%	6.38	0.9805	<.0001	2.666
Ejection Fraction 40-49%	12.98	0.7384	<.0001	2.093
Pre-Procedural MI				
MI 1-14 days	19.50	0.9139	<.0001	2.494
<b>Comorbidities</b>				
Chronic Lung Disease				
None	93.44	– Reference –		1.000
Mild	3.25	0.7091	0.0021	2.032
Moderate	2.93	1.0396	<.0001	2.828
Severe	0.38	1.6068	<.0001	4.987
Congestive Heart Failure (CHF) Current (within 2 weeks)	6.81	0.6245	<.0001	1.867
Diabetes with Insulin therapy	15.91	0.4657	0.0009	1.593
Renal Failure				
No Renal Dialysis and Creatinine < 1.2 mg/dL	70.38	– Reference –		1.000
Creatinine 1.2 - 2.5 mg/dL	25.72	0.4580	0.0011	1.581
Creatinine > 2.5 mg/dL	1.01	1.1187	0.0003	3.061
Renal Dialysis	2.89	1.4710	<.0001	4.354
<b>Vessels Diseased</b>				
Left Main Disease	4.84	0.4705	0.0094	1.601
Number of Vessels Diseased				
Fewer than Two Vessels Diseased	53.77	– Reference –		1.000
Two Vessels Diseased	32.42	0.3092	0.0326	1.362
Three Vessels Diseased	13.82	0.6394	<.0001	1.895

Intercept = -6.8829

C Statistic = 0.844

## Appendix 3

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### 2013 Risk Factors For 30-Day Readmission For PCI

The significant pre-procedural risk factors for 30-day readmissions following PCI in 2013 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 Age, Female, Ejection Fraction, Pre-Procedural MI, Chronic Lung Disease, Congestive Heart Failure, Renal Failure, and Number of Vessels Diseased.

The interpretation for Cerebrovascular Disease, Diabetes requiring medication, Peripheral Vascular Disease is similar for that described for Diabetes with Insulin therapy in

Appendix 1. Diabetes in this model (Diabetes requiring medication) includes insulin therapy or oral medications prior to admission.

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 three levels representing various categories of BMI. The reference category is BMI greater or equal to 18.5 kg/m<sup>2</sup>.

## Appendix 3

### 2013 Risk Factors for 30-Day Readmissions for All PCI

Patient Risk Factors	Prevalence (%)	Logistic Regression		
		Coefficient	P value	Odds Ratio
<b>Demographic</b>				
Age: number of years greater than 60	--	0.0169	<.0001	1.017
Female	30.49	0.2204	<.0001	1.247
Body Mass Index (kg/m <sup>2</sup> )				
< 16.5 kg/m <sup>2</sup>	0.16	0.7922	0.0050	2.208
≥ 16.5 and < 18.5 kg/m <sup>2</sup>	0.61	0.3401	0.0394	1.405
≥ 18.5 kg/m <sup>2</sup>	99.22	– Reference –		1.000
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 40% or greater	87.41	– Reference –		1.000
Ejection Fraction less than 20%	0.79	0.4612	0.0009	1.586
Ejection Fraction 20-39%	11.80	0.2442	<.0001	1.277
Pre-Procedural MI				
No MI within 14 Days	65.50	– Reference –		1.000
STEMI within 24 hours	12.66	0.4147	<.0001	1.514
NSTEMI within 24 hours	5.41	0.1940	0.0064	1.214
MI 1-20 days	16.43	0.2917	<.0001	1.339
<b>Number of Vessels Diseased</b>				
Fewer than Two Vessels Diseased	54.00	– Reference –		1.000
Two Vessels Diseased	32.27	0.1621	<.0001	1.176
Three Vessels Diseased	13.73	0.2884	<.0001	1.334
<b>Comorbidities</b>				
Cerebrovascular Disease	10.42	0.2379	<.0001	1.269
Peripheral Vascular Disease	9.36	0.1292	0.0095	1.138
Congestive Heart Failure				
No CHF within 6 months	89.79	– Reference –		1.000
CHF, Current (within 2 weeks)	6.48	0.5368	<.0001	1.711
CHF, Past but not Current (2 wks-6 mon)	3.74	0.4241	<.0001	1.528
Chronic Lung Disease				
None	93.75	– Reference –		1.000
Mild	3.08	0.2514	0.0018	1.286
Moderate or Severe	3.17	0.3212	<.0001	1.379
Diabetes (Insulin/Oral meds)	35.82	0.1097	0.0012	1.116
Renal Failure				
No Renal Dialysis and Creatinine < 1.2 mg/dL	71.11	– Reference –		1.000
Creatinine 1.2 - 1.5 mg/dL	19.42	0.1019	0.0132	1.107
Creatinine 1.6 - 2.0 mg/dL	4.76	0.2186	0.0013	1.244
Creatinine > 2.0 mg/dL	2.11	0.6630	<.0001	1.941
Renal Dialysis	2.60	0.8026	<.0001	2.231

Intercept = -2.8765

C Statistic = 0.643

## Appendix 4

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### 2011-2013 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 2011-2013 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 Previous PCI, Malignant Ventricular Arrhythmia, Chronic Lung Disease and Diabetes requiring medication are interpreted as described previously.

Previous PCI and Malignant Ventricular Arrhythmia are interpreted in the same way as Diabetes with Insulin therapy in Appendix 1.

In this model Chronic Lung Disease is not separated into categories by severity of disease. All patients with chronic lung disease are compared to patients without the condition.

Diabetes requiring medication includes patients treated with either insulin or oral medication prior to admission and is compared to all other patients. Please note that the data collection prior to 2012 did not distinguish between patients treated with insulin and those treated with oral medication so both kinds of treatment must be grouped together in the three-year analysis.



# Appendix 4

## Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2011-2013 (All Cases)

Patient Risk Factors	Prevalence (%)	Logistic Regression		
		Regression Coefficient	P value	Odds Ratio
<b>Demographic</b>				
Age: Number of years greater than 50	--	0.0470	<.0001	1.048
Female Gender	30.33	0.2277	0.0001	1.256
Body Mass Index (kg/m <sup>2</sup> )				
< 18.5 kg/m <sup>2</sup>	0.81	0.9435	<.0001	2.569
≥ 18.5 and < 25 kg/m <sup>2</sup>	20.70	0.2231	0.0004	1.250
≥ 25 and < 35 kg/m <sup>2</sup>	62.84	--Reference--		1.000
≥ 35 kg/m <sup>2</sup>	15.66	0.1705	0.0469	1.186
<b>Hemodynamic Status</b>				
Unstable	0.54	1.8105	<.0001	6.113
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 50% or greater	72.11	-- Reference --		1.000
Ejection Fraction less than 20%	0.81	1.6766	<.0001	5.347
Ejection Fraction 20-29%	3.90	1.2188	<.0001	3.383
Ejection Fraction 30-39%	7.58	0.7562	<.0001	2.130
Ejection Fraction 40-49%	15.59	0.2957	0.0001	1.344
Pre-Procedural MI				
No MI within 20 days	67.64	-- Reference --		1.000
MI with ST Elevation				
MI < 6 hrs	9.51	1.9056	<.0001	6.723
MI 6-11 hrs	1.70	1.9852	<.0001	7.281
MI 12 – 23 hrs	0.94	2.1523	<.0001	8.605
MI without ST Elevation				
MI < 6 hrs	0.79	1.2392	<.0001	3.453
MI 6-11 hrs	1.21	1.1902	<.0001	3.288
MI 12 – 23 hrs	2.56	1.0347	<.0001	2.814
MI with or without ST Elevation				
MI 1-14 days	15.26	1.0544	<.0001	2.870
MI 15-20 days	0.39	0.7379	0.0186	2.091
<b>Comorbidities</b>				
Chronic Lung Disease	6.17	0.6145	<.0001	1.849
Congestive Heart Failure (CHF)				
No CHF within 6 months	90.44	-- Reference --		1.000
CHF, Current (within 2 weeks)	5.97	0.6761	<.0001	1.966
CHF, Past but not current (2 wks - 6 mon)	3.59	0.3492	0.0022	1.418
Diabetes requiring medication	35.57	0.1889	0.0016	1.208
Malignant Ventricular Arrhythmia	0.70	0.6691	<.0001	1.952
Peripheral Vascular Disease	9.39	0.2032	0.0068	1.225
Renal Failure				
No Renal Dialysis and Creatinine < 1.2 mg/dL	70.19	--Reference--		1.000
Creatinine 1.2 - 1.5 mg/dL	20.03	0.2194	0.0019	1.245
Creatinine 1.6 - 2.0 mg/dL	5.08	0.6635	<.0001	1.941
Creatinine 2.1 - 3.0 mg/dL	1.56	0.8536	<.0001	2.348
Creatinine > 3.0 mg/dL	0.58	1.2653	<.0001	3.544
Renal Dialysis	2.55	1.3836	<.0001	3.989
<b>Previous Procedures</b>				
Previous PCIs	44.03	-0.2082	0.0005	0.812
<b>Vessels</b>				
Left Main Disease	4.22	0.5020	<.0001	1.652
Number of Vessels Diseased				
Fewer than Two Vessels Diseased	54.56	--Reference--		1.000
Two Vessels Diseased	32.03	0.2044	0.0012	1.227
Three Vessels Diseased	13.41	0.4152	<.0001	1.515

Intercept = -7.4034

C Statistic = 0.863

## Appendix 5

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### **2011-2013 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 2011-2013 time period are presented in the Appendix 5 table below. The interpretation for this appendix is similar to the interpretation of Appendices 1-4 described previously.

## Appendix 5

### Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2011-2013 (Non-Emergency Cases)

Patient Risk Factors	Prevalence (%)	Logistic Regression		
		Regression Coefficient	P value	Odds Ratio
Age: Number of years greater than 60	--	0.0411	<.0001	1.042
Body Mass Index (kg/m <sup>2</sup> )				
< 18.5 kg/m <sup>2</sup>	0.77	1.4578	<.0001	4.296
≥ 18.5 and < 25 kg/m <sup>2</sup>	20.43	0.7768	<.0001	2.174
≥ 25 kg/m <sup>2</sup>	78.80	– Reference –		1.000
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 50% or greater	76.73	– Reference –		1.000
Ejection Fraction less than 20%	0.69	1.6795	<.0001	5.363
Ejection Fraction 20-29%	3.35	1.4680	<.0001	4.341
Ejection Fraction 30-39%	6.12	1.2596	<.0001	3.524
Ejection Fraction 40-49%	13.10	0.9850	<.0001	2.678
Pre-Procedural MI				
MI 1- 14 days	18.24	1.5210	<.0001	4.577
<b>Comorbidities</b>				
Malignant Ventricular Arrhythmia	0.47	1.4585	<.0001	4.299
Chronic Lung Disease	6.52	1.3261	<.0001	3.766
Peripheral Vascular Disease	10.30	0.8169	<.0001	2.263
Congestive Heart Failure (CHF)				
No CHF within 6 months	89.84	– Reference –		1.000
CHF, Current (within 2 weeks)	6.16	1.3385	<.0001	3.813
CHF, Past but not current (2 wks - 6 mon)	4.00	0.8735	<.0001	2.395
Renal Failure				
No Renal Dialysis and Creatinine < 1.6 mg/dL	89.76	– Reference –		1.000
Creatinine 1.6 - 2.5 mg/dL	6.38	1.0556	<.0001	2.874
Creatinine > 2.5 mg/dL	1.00	1.2309	<.0001	3.424
Renal Dialysis	2.85	1.7925	<.0001	6.005
<b>Vessels</b>				
Number of Vessels Diseased				
Fewer than Two Vessels Diseased	54.39	– Reference –		1.000
Two Vessels Diseased	32.24	0.6630	<.0001	1.941
Three Vessels Diseased	13.37	0.8990	<.0001	2.457
<b>Sum of Risk Factors Squared</b>	—	-0.0731	<.0001	—

Intercept = -7.3667

C Statistic = 0.837

## Appendix 6

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### **2011-2013 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 2011-2013 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, 2011-2013 (Emergency Cases)

Patient Risk Factors	Prevalence (%)	Logistic Regression		
		Coefficient	P value	Odds Ratio
<b>Demographic</b>				
Age: number of years > 50	--	0.0636	<.0001	1.066
Body Mass Index (kg/m <sup>2</sup> )				
< 18.5 kg/m <sup>2</sup>	0.97	0.9322	0.0006	2.540
≥ 18.5 and < 35.0 kg/m <sup>2</sup>	84.95	— Reference —		1.000
≥ 35.0 kg/m <sup>2</sup>	14.09	0.5018	<.0001	1.652
<b>Hemodynamic Status</b>				
Unstable	3.19	1.7278	<.0001	5.628
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 30% or greater	77.15	— Reference —		1.000
Ejection Fraction less than 20%	1.41	2.0125	<.0001	7.482
Ejection Fraction 20-29%	6.66	1.3691	<.0001	3.932
Ejection Fraction 30-39%	14.79	0.6501	<.0001	1.916
Pre-Procedural MI				
STEMI within 24 hrs	72.18	0.8653	<.0001	2.376
<b>Comorbidities</b>				
Congestive Heart Failure (CHF), Current	5.02	0.6731	<.0001	1.960
Malignant Ventricular Arrhythmia	1.83	0.6023	0.0024	1.826
Renal Failure				
No Renal Dialysis and Creatinine < 1.2 mg/dL	72.17	— Reference —		1.000
Creatinine 1.2 - 1.5 mg/dL	20.34	0.2132	0.0403	1.238
Creatinine 1.6 - 2.0 mg/dL	4.35	0.6838	<.0001	1.981
Creatinine > 2.0 mg/dL	2.12	1.3221	<.0001	3.751
Renal Dialysis	1.02	1.4151	<.0001	4.117
<b>Vessels Diseased</b>				
Left Main Disease	2.94	0.8187	<.0001	2.268
Three Vessels Diseased	13.64	0.3362	0.0008	1.400

Intercept = -6.3911

C Statistic = 0.861

# NEW YORK STATE PERCUTANEOUS CORONARY INTERVENTION CENTERS

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**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 13210

**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

**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<sup>++</sup>**

55 Palmer Avenue  
Bronxville, New York 10708

**NY Presbyterian – Queens**

56-45 Main Street  
Flushing, New York 11355

**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<sup>+++</sup>**

355 Bard Avenue  
Staten Island, New York 10310

**Rochester General Hospital**

1425 Portland Avenue  
Rochester, New York 14621

**Samaritan Hospital<sup>+++</sup>**

2215 Burdett Avenue  
Troy, NY 12180

**Saratoga Hospital<sup>++</sup>**

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<sup>\*\*</sup>**

340 Henry Street  
Brooklyn, New York 11201

**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 November 2013

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