

**PERCUTANEOUS
CORONARY
INTERVENTIONS
(PCI)
in
New York State
*2008 – 2010***

**New York State Department of Health
August 2012**

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TABLE OF CONTENTS

- MESSAGE FROM COMMISSIONER SHAH 1
- INTRODUCTION 3
- DEPARTMENT OF HEALTH PROGRAM 3
- PATIENT POPULATION 3
- RISK ADJUSTMENT FOR ASSESSING PROVIDER PERFORMANCE 4
 - Data Collection, Data Validation and Identifying In-Hospital/30-Day Deaths 5
 - Assessing Patient Risk 5
 - Predicting Patient Mortality Rates for Providers 5
 - Computing the Risk-Adjusted Mortality Rate. 5
 - Interpreting the Risk-Adjusted Mortality Rate 6
 - How this Initiative Contributes to Quality Improvement 6
- 2010 HOSPITAL RISK-ADJUSTED MORTALITY FOR PCI 6
- 2008-2010 HOSPITAL DATA FOR PCI 7
 - Table 1 In-Hospital/30-Day Observed, Expected and Risk-Adjusted Mortality Rates for PCI in New York State, 2010 Discharges 9
 - Figure 1 In-Hospital/30-Day Risk-Adjusted Mortality Rates for PCI in New York State, 2010 Discharges (All Cases) 10
 - Figure 2 In-Hospital/30-Day Risk-Adjusted Mortality Rates for PCI in New York State, 2010 Discharges (Non-Emergency Cases) 11
 - Table 2 In-Hospital/30-Day Observed and Risk-Adjusted Mortality Rates for PCI in New York State, 2008-2010 Discharges 12
- 2008-2010 HOSPITAL AND CARDIOLOGIST DATA FOR PCI 13
 - Table 3 Cardiologist In-Hospital/30-Day Observed, Expected and Risk-Adjusted Mortality Rates for PCI in New York State, 2008-2010 Discharges 13
 - Table 4 Summary Information for Cardiologists Practicing at More Than One Hospital, 2008-2010 Discharges 31
- CRITERIA USED IN REPORTING SIGNIFICANT RISK FACTORS (2010) 47
- MEDICAL TERMINOLOGY 49
- APPENDIX 1 2010 Risk Factors for PCI In-Hospital/30-Day Mortality (All Cases) 50
- APPENDIX 2 2010 Risk Factors For In-Hospital/30-Day Mortality for Non-Emergency PCI 52
- APPENDIX 3 2008-2010 Risk Factors for PCI In-Hospital/30-Day Mortality (All Cases) 54
- APPENDIX 4 2008-2010 Risk Factors for In-Hospital/30-Day Mortality for Non-Emergency PCI 56
- APPENDIX 5 2008-2010 Risk Factors for In-Hospital/30-Day Mortality for Emergency PCI 57
- NEW YORK STATE PERCUTANEOUS CORONARY INTERVENTION CENTERS 58

MESSAGE FROM COMMISSIONER SHAH

August 2012

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

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

As they develop treatment plans, I encourage doctors to discuss this information with their patients and colleagues. While these statistics are an important tool in making informed health care choices, doctors and patients must make individual treatment plans together after careful consideration of all pertinent factors. It is also important to keep in mind that the information in this booklet does not include data after 2010. Important changes may have taken place in some hospitals since that time.

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

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

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

INTRODUCTION

Heart disease is, by far, 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 164,547 patients who underwent PCI in NYS hospitals and were discharged between January 1, 2008, and December 31, 2010. Analyses of risk-adjusted mortality rates and associated risk factors are provided for 2010 and for the three-year period from 2008 through 2010. Analyses of all cases, non-emergency cases (which represent the majority of procedures) and emergency cases are included.

DEPARTMENT OF HEALTH PROGRAM

The New York State Department of Health (Department of Health) has been studying the effects of patient and treatment characteristics on outcomes for patients with heart disease for over 20 years. Detailed statistical analyses of the information received from the study have been conducted under the guidance of the Cardiac Advisory Committee, a group of independent practicing cardiac surgeons, cardiologists and other professionals in related fields.

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

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

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

PATIENT POPULATION

This report is based on data for patients discharged between January 1, 2008, and December 31, 2010, provided by all 59 non-federal hospitals in NYS where PCI was performed. In total there were 164,547 PCI procedures performed during this time period. The annual number of PCI discharges was 55,214 for 2008, 55,031 for 2009, and 54,302 for 2010. For various reasons, some of these cases are excluded from analysis in this report. The reasons for exclusion and number of cases affected are described below.

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

In addition, 210 records were excluded from the 2008–2010 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 33 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 446 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 27 cases excluded from analysis. The following two paragraphs provide further details on these clinical exclusion criteria.

Beginning with patients discharged in 2006, the Department of Health, with the advice of the Cardiac Advisory Committee, began a trial period of excluding any patients meeting the NYS Cardiac Data System definition of pre-operative cardiogenic shock from publicly released reports and analyses. Cardiogenic shock is a condition associated with severe hypotension (very low blood pressure); the technical definition used in this report can be found on Page 47. 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 446 cases account for 0.27 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 began excluding cases from analysis when the patient was stable from a cardiac standpoint but did not recover neurologically and expired due to withdrawal of care.

NOTE ON HOSPITALS PERFORMING PCI DURING 2008–2010 PERIOD

Prior to regulatory changes in 2009, PCI in NYS was generally limited to centers with cardiac surgery on-site. However, beginning in 2000, a process was in place to allow time-limited waivers to this policy for centers participating in a special study for heart attack patients. After extensive training and review, hospitals meeting specific conditions were allowed to perform PCI on patients with an ST segment elevation myocardial infarction (a specific kind of heart attack also known as STEMI). Beginning in 2006, seven of those centers were also granted permission to perform PCI on patients not having a STEMI. When regulatory changes took effect in late 2009 many hospitals began to receive approval to perform PCI on a broader class of patients, including those not currently having a STEMI. In the time period on which this report is based, 17 hospitals were performing PCI without cardiac surgery on-site. By the end of 2010, 16 of them were approved to perform Elective as well as Primary PCI. Bronx-Lebanon – Concourse Division remains approved for Primary PCI only. 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 2008-2010 time period. The hospital name and the month of the first PCI performed are listed below. Hospitals initially approved to perform PCI only on STEMI patients: Orange Regional Medical Center – February 2008; St. Lukes Cornwall Hospital/Newburgh – February 2009; Bronx-Lebanon Hospital Center – Concourse Division – March 2009; Lutheran Medical Center – June 2009. Hospitals with initial approval not limited to STEMI patients: White Plains Hospital Center -- February 2010; Cayuga Medical Center at Ithaca -- November 2010.

RISK ADJUSTMENT FOR ASSESSING PROVIDER PERFORMANCE

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

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

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

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

The analysis bases mortality on deaths occurring during the same hospital stay in which a patient underwent PCI and on deaths that occur after hospital discharge but within 30 days of PCI. In this report, an in-hospital death is defined as a patient who died subsequent to PCI during the same acute care admission or was discharged to hospice care and expired within 30 days. Data on deaths occurring after discharge from the hospital are made available by the Department of Health and its Bureau of Vital Statistics, the New York City Department of Health and Mental Hygiene and the Social Security Administration.

Assessing Patient Risk

Each person who develops coronary artery disease has a unique health history. A cardiac profile system has been developed to evaluate the risk of treatment for each individual patient based on his or her history, weighing the important health facts for that person based on the experiences of thousands of patients who have undergone the same procedures in recent years. All important risk factors for each patient are combined to create his or her risk profile. For example, an 80-year-old patient with a heart attack in the past six hours has a very different risk profile than a 40-year-old who has never suffered a heart attack.

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

Predicting Patient Mortality Rates for Providers

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

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

Computing the Risk-Adjusted Mortality Rate

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

To get the RAMR, the OMR is first divided by the provider's EMR. If the resulting ratio is larger than one, the provider has a higher mortality rate than expected on the basis of its patient mix; if it is smaller than one, the provider has a lower mortality rate than expected from its patient mix. The ratio is then multiplied by the overall statewide rate (0.84 percent in-hospital/30-day in 2010) 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 lower than the statewide mortality rate, the hospital has a better performance than the state as a whole; if the RAMR is higher than the statewide mortality rate, the hospital has a worse performance than the state as a whole.

The RAMR is used in this report as a measure of quality of care provided by hospitals and cardiologists. However, there are reasons that a provider's RAMR may not be indicative of its true quality. For example, extreme outcome rates may occur due to chance alone. This is particularly true for low-volume providers, for whom very high or very low rates are more likely to occur than for high-volume providers. To prevent misinterpretation of differences caused by chance variation, expected ranges (confidence intervals) are included in the reported results.

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

How This Initiative Contributes to Quality Improvement

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

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

2010 HOSPITAL RISK-ADJUSTED MORTALITY FOR PCI

Table 1 and Figures 1 and 2 present the PCI mortality results for the 58 hospitals performing PCI in NYS in 2010 for which data could be analyzed. The table contains, for each hospital, the number of PCIs resulting in 2010 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 (86.52 percent in 2010).

The overall in-hospital/30-day OMR for the 54,035 PCIs included in this 2010 analysis was 0.84 percent. Observed mortality rates ranged from 0.00 percent to 6.15 percent. The range in EMRs, which measure patient severity of illness, was between 0.53 percent and 2.43 percent. The RAMRs, which measure hospital performance, range from 0.00 percent to 2.56 percent. Based on confidence intervals for RAMRs, two hospitals (Montefiore Medical Center – Weiler in the Bronx and University Hospital - Upstate in Syracuse) had RAMRs that were significantly higher than the statewide average. No hospitals had RAMRs that were significantly lower than the statewide average.

The last column of Table 1 presents the hospital RAMRs for non-emergency cases (based on the statistical model presented in Appendix 2). As presented in the last row, the statewide in-hospital/30-day mortality rate for non-emergency cases is 0.51 percent. The range of RAMRs was from 0.00 percent to 2.37 percent. No hospitals had RAMRs that were significantly different than the statewide rate.

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

Since the 2010 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 2010 PCI discharges was 0.52 percent for the 54,035 patients included in Table 1. For the non-emergency analysis, there were 46,749 patients with an in-hospital mortality rate of 0.25 percent.

2008-2010 HOSPITAL DATA FOR PCI

Table 2 provides the number of PCIs, the in-hospital/30-day OMR and RAMR for 2008-2010 for each of three types of PCI patients in the 59 hospitals performing PCI during the time period. The three types of patients are: all patients, non-emergency patients and emergency patients (patients in a state of hemodynamic instability, typically associated with very low blood pressure, or patients who experienced a heart attack within 24 hours prior to undergoing PCI). The statistical models that are the basis for all patients, non-emergency patients and emergency patients in 2008-2010 are presented in Appendices 3-5, respectively.

As indicated in Table 2, the three-year observed in-hospital/30-day mortality rates for all PCI patients ranged from 0.00 percent to 6.48 percent, and the RAMRs ranged from 0.00 percent to 2.29 percent. Five hospitals (Brookdale Hospital Medical Center in Brooklyn, Good Samaritan Hospital of Suffern, Montefiore Medical Center – Weiler in the Bronx, Rochester General Hospital and Strong Memorial 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, NYU Hospitals Center in Manhattan and St. Francis Hospital in Roslyn) had RAMRs that were significantly lower than the statewide rate. It should be noted that hospitals are more likely to have results that show a statistically significant difference from the statewide rate when three years of data are used than when one year of data is used because the three-year volumes are higher.

Table 2 also presents the 3-year in-hospital/30-day RAMRs for non-emergency cases based on the model in Appendix 4. Non-emergency cases comprise 86.73 percent of cases for the period 2008-2010. The statewide in-hospital/30-day mortality rate for the 141,300 non-emergency cases during the 3-year period was 0.55 percent. Observed mortality rates for this group of patients ranged from 0.00 percent to 2.08 percent and the RAMRs ranged from 0.00 to 2.31 percent. Six hospitals (Crouse Hospital in Syracuse, Faxton-St. Lukes in Utica, Montefiore Medical Center – Weiler in the Bronx, Rochester General Hospital, St. Peter's Hospital in Albany and University Hospital of Brooklyn) had RAMRs that were significantly higher than the statewide rate. Four hospitals (Beth Israel Medical Center in Manhattan, Mount Sinai Hospital in Manhattan, NYU Hospitals Center in Manhattan and St. Francis Hospital in Roslyn) had RAMRs that were significantly lower than the statewide average for non-emergency cases.

The last three columns in Table 2 present data on emergency cases based on the model in Appendix 5. Emergency cases represented 13.27 percent of cases for the period 2008-2010. The statewide in-hospital/30-day mortality rate for the 21,618 emergency PCI cases during the 3-year period was 3.17 percent. Observed mortality rates for this group ranged from 0.00 percent to 11.76 percent and the RAMRs ranged from 0.00 percent to 9.91 percent. Four hospitals (Brookdale Hospital Medical Center in Brooklyn, Good Samaritan Hospital of Suffern, Montefiore Medical Center - Weiler in the Bronx, and St. Vincent's in Manhattan [now closed]) had RAMRs that were significantly above the statewide average for emergency cases. Two hospitals (Maimonides Medical Center in Brooklyn and North Shore University Hospital in Manhasset) had RAMRs that were significantly below the statewide average for emergency cases.

The observed in-hospital mortality rate (not shown in Table 2) for all 162,918 cases included in Table 2 was 0.55 percent. The in-hospital mortality rate was 0.26 percent for the 141,300 non-emergency cases and 2.45 percent for the 21,618 emergency cases. As stated above, all cases with shock and hypoxic brain injury mortalities in 2010 are excluded from these analyses. Therefore, volume and mortality rates for the all cases and emergency cases analyses are not directly comparable to some previously published by the Department of Health.

Definitions of key terms are as follows:

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

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

The **risk-adjusted mortality rate (RAMR)** is the best estimate, based on the statistical model, of what the provider's mortality rate would have been if the provider had a mix of patients similar to the statewide mix. It is obtained by first dividing the OMR by the EMR, and then multiplying that quotient by the statewide mortality rate (0.84 percent in-hospital/30-day mortality for all PCI patients discharged in 2010).

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

Table 1 In-Hospital/30-Day Observed, Expected and Risk-Adjusted Mortality Rates for PCI in New York State, 2010
Discharges. (Listed Alphabetically by Hospital)

Hospital	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Albany Medical Center	1191	13	1.09	0.61	1.51	(0.80, 2.58)	1003	0.97
Arnot Ogden Med Ctr	469	1	0.21	0.83	0.22	(0.00, 1.20)	359	0.00
Bellevue Hospital Ctr	448	4	0.89	0.89	0.84	(0.23, 2.16)	366	0.00
Beth Israel Med Ctr	1762	11	0.62	0.70	0.75	(0.38, 1.35)	1659	0.40
Bronx-Lebanon-Cncourse	65	4	6.15	2.41	2.15	(0.58, 5.50)	5	0.00
Brookdale Hosp Med Ctr	338	9	2.66	1.36	1.65	(0.75, 3.13)	276	1.23
Buffalo General Hosp	1334	11	0.82	0.67	1.03	(0.51, 1.85)	1205	0.48
Cayuga Med Ctr Ithaca	19	0	0.00	1.20	0.00	(0.00,13.54)	15	0.00
Champ.Valley Phys Hosp	618	4	0.65	1.22	0.44	(0.12, 1.14)	501	0.35
Crouse Hospital	385	3	0.78	0.80	0.81	(0.16, 2.38)	320	0.00
Ellis Hospital	525	4	0.76	1.01	0.64	(0.17, 1.63)	369	0.28
Elmhurst Hospital Ctr	405	3	0.74	0.89	0.70	(0.14, 2.03)	281	0.61
Erie County Med Ctr	139	1	0.72	1.77	0.34	(0.00, 1.90)	69	0.00
Faxton - St. Lukes	286	5	1.75	0.71	2.08	(0.67, 4.85)	250	1.79
Glens Falls Hospital	229	1	0.44	0.63	0.59	(0.01, 3.26)	177	0.00
Good Sam - Suffern	637	9	1.41	0.99	1.20	(0.55, 2.27)	469	0.46
Good Sam - West Islip	683	5	0.73	0.54	1.14	(0.37, 2.67)	602	0.61
Huntington Hospital	114	1	0.88	1.71	0.43	(0.01, 2.39)	48	2.37
Jamaica Hosp Med Ctr	193	5	2.59	2.43	0.90	(0.29, 2.09)	37	0.00
Lenox Hill Hospital	2740	13	0.47	0.57	0.71	(0.38, 1.21)	2652	0.40
Long Island Jewish	2019	13	0.64	0.65	0.84	(0.44, 1.43)	1840	0.63
Lutheran Medical Ctr	333	6	1.80	1.11	1.36	(0.50, 2.96)	270	0.50
M I Bassett Hospital	371	7	1.89	0.92	1.72	(0.69, 3.54)	261	0.45
Maimonides Medical Ctr	1179	9	0.76	1.38	0.46	(0.21, 0.88)	993	0.36
Mercy Hospital	661	10	1.51	0.96	1.32	(0.63, 2.42)	494	1.06
Millard Fillmore Hosp	829	4	0.48	0.89	0.46	(0.12, 1.17)	705	0.31
Montefiore - Moses	757	9	1.19	0.74	1.35	(0.61, 2.56)	615	0.64
Montefiore - Weiler	640	14	2.19	0.92	2.00 *	(1.09, 3.36)	521	1.01
Mount Sinai Hospital	4777	20	0.42	0.62	0.57	(0.35, 0.87)	4685	0.36
NY Hospital - Queens	741	8	1.08	0.96	0.94	(0.41, 1.86)	605	0.81
NY Methodist Hospital	1453	10	0.69	0.69	0.84	(0.40, 1.55)	1390	0.23
NYP- Columbia Presby.	2856	22	0.77	0.80	0.81	(0.51, 1.22)	2697	0.55
NYP- Weill Cornell	1346	15	1.11	1.19	0.79	(0.44, 1.30)	1206	0.67
NYU Hospitals Center	1186	4	0.34	0.61	0.46	(0.12, 1.19)	1128	0.21
North Shore Univ Hosp	1850	8	0.43	0.83	0.44	(0.19, 0.86)	1578	0.21
Orange Regional Med Ctr	528	5	0.95	0.69	1.15	(0.37, 2.69)	445	0.66
Rochester General Hosp	1899	23	1.21	0.84	1.21	(0.77, 1.82)	1640	0.77
South Nassau Comm. Hosp	462	2	0.43	1.03	0.35	(0.04, 1.28)	369	0.43
Southside Hospital	497	3	0.60	0.53	0.96	(0.19, 2.80)	420	0.88
St. Catherine of Siena	236	1	0.42	0.93	0.38	(0.00, 2.12)	177	0.00
St. Elizabeth Med Ctr	1043	9	0.86	0.91	0.80	(0.36, 1.52)	912	0.72
St. Francis Hospital	2936	20	0.68	0.77	0.74	(0.45, 1.15)	2765	0.48
St. Josephs Hospital	2314	21	0.91	0.88	0.86	(0.53, 1.32)	1905	0.61
St. Lukes at St. Lukes	548	7	1.28	0.94	1.14	(0.46, 2.34)	472	0.47
St. Lukes Cornwall-Newbrg	347	2	0.58	0.90	0.54	(0.06, 1.94)	287	0.27
St. Peters Hospital	733	6	0.82	0.91	0.75	(0.28, 1.64)	539	0.79
Staten Island Univ Hosp	1154	12	1.04	0.85	1.03	(0.53, 1.80)	997	0.73
Strong Memorial Hosp	1005	10	1.00	1.05	0.80	(0.38, 1.47)	725	0.48
UHS - Wilson Med Ctr	713	7	0.98	1.13	0.73	(0.29, 1.51)	560	0.36
Unity Hospital	363	3	0.83	1.06	0.65	(0.13, 1.91)	292	0.83
Univ. Brooklyn @ LICH	177	1	0.56	0.98	0.48	(0.01, 2.70)	136	0.00
Univ. Hosp - Brooklyn	570	5	0.88	0.82	0.90	(0.29, 2.10)	491	0.23
Univ. Hosp - Upstate	236	7	2.97	0.97	2.56 *	(1.03, 5.28)	162	1.69
Univ. Hosp - Stony Brook	1762	22	1.25	1.13	0.93	(0.58, 1.41)	1346	0.52
Vassar Bros. Med Ctr	659	5	0.76	0.73	0.87	(0.28, 2.03)	511	0.44
Westchester Med Ctr	1025	6	0.59	0.95	0.52	(0.19, 1.13)	865	0.53
White Plains Hospital	130	4	3.08	1.21	2.13	(0.57, 5.46)	89	1.49
Winthrop Univ. Hosp	1120	7	0.63	0.90	0.59	(0.23, 1.21)	993	0.44
Statewide Total	54035	454	0.84				46749	0.51

* Risk-adjusted mortality rate significantly higher 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, 2010 Discharges (All Cases)

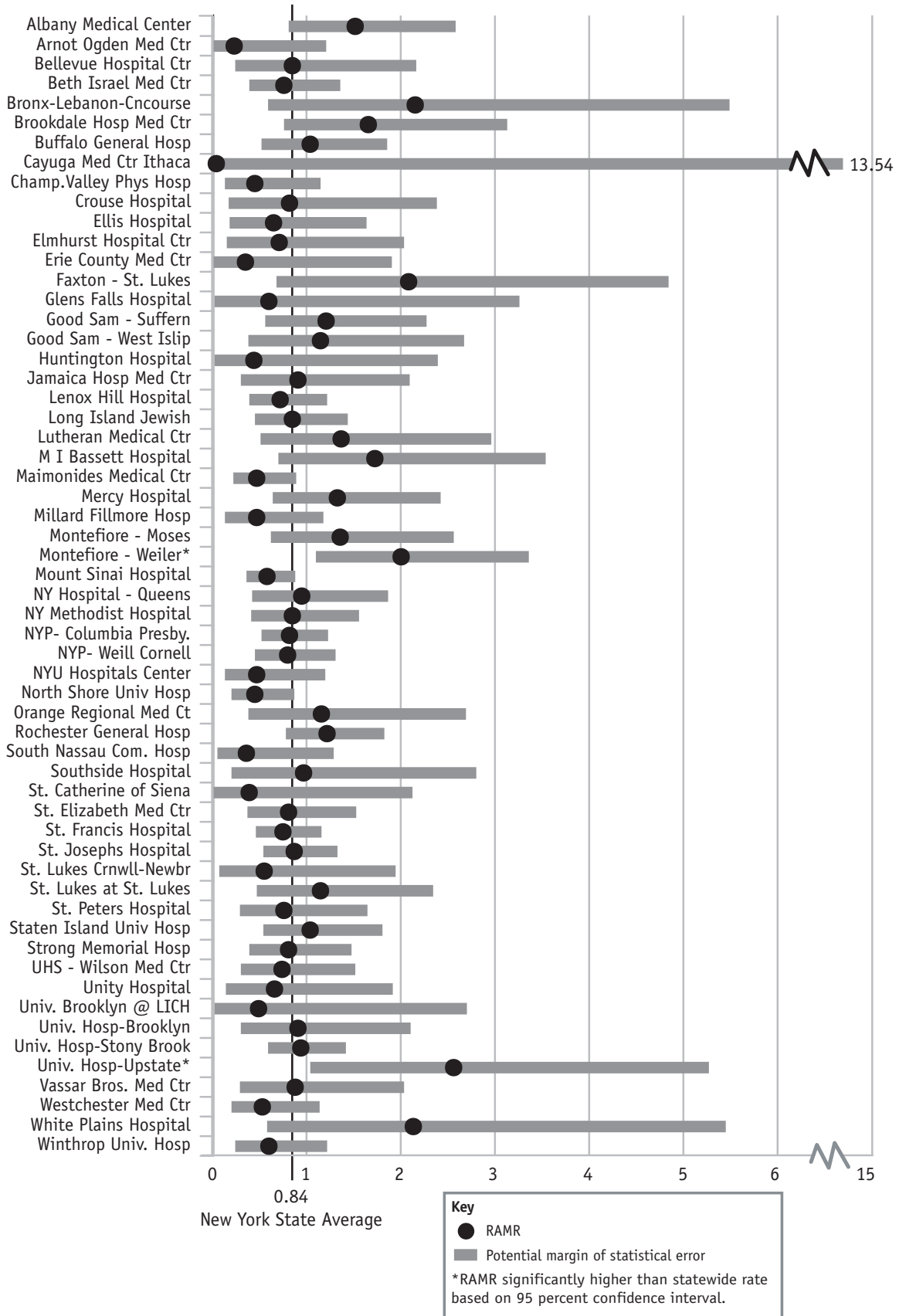


Figure 2 In-Hospital/30-Day Risk-Adjusted Mortality Rates for PCI in New York State, 2010 Discharges (Non-Emergency Cases)

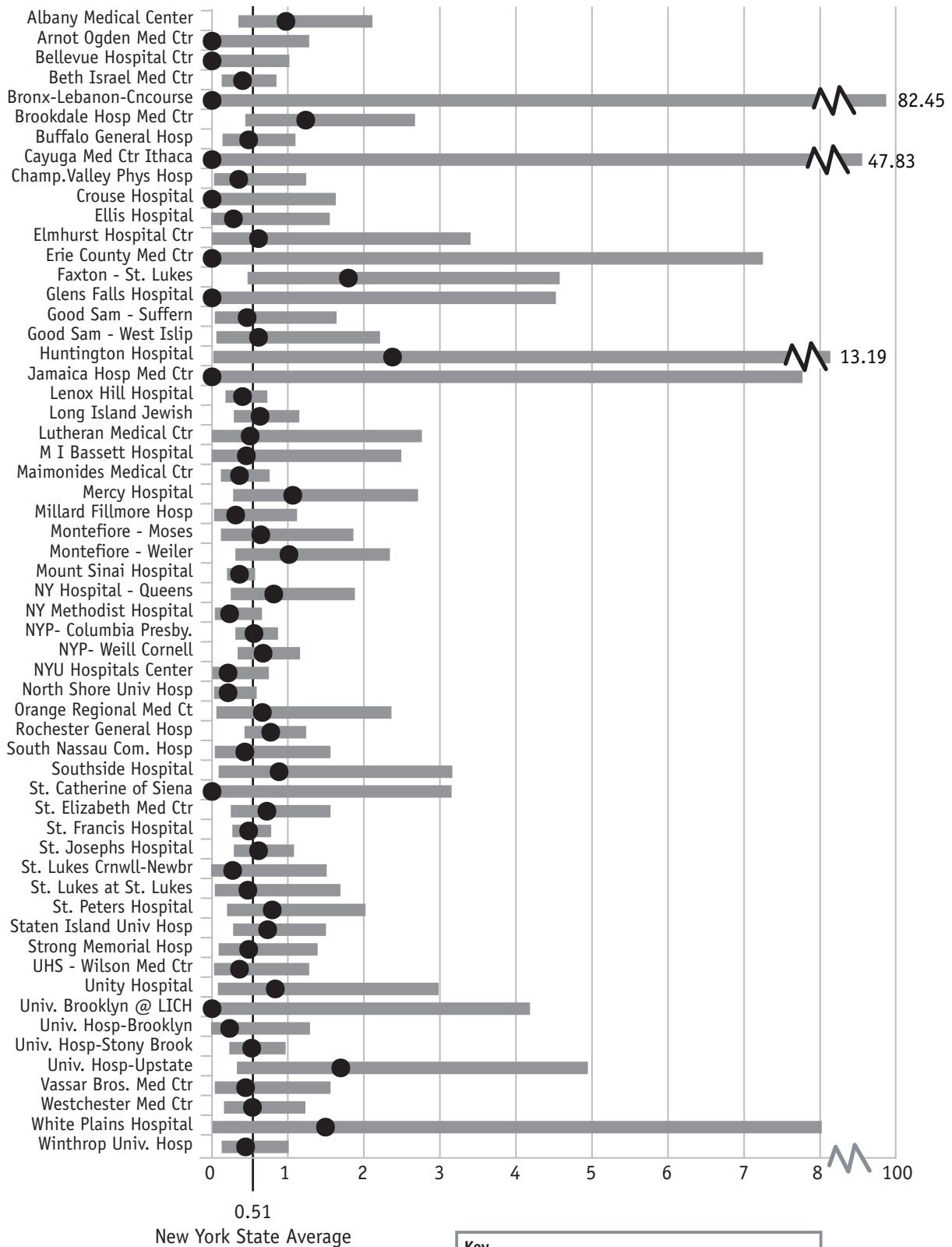


Table 2 In-Hospital/30-Day Observed and Risk-Adjusted Mortality Rates for PCI in New York State, 2008-2010 Discharges

Hospital	All Cases			Non-Emergency Cases			Emergency Cases		
	Cases	OMR	RAMR	Cases	OMR	RAMR	Cases	OMR	RAMR
Albany Medical Center	3366	0.92	1.32	2917	0.58	0.94	449	3.12	3.93
Arnot Ogden Med Ctr	1287	1.32	1.24	950	0.84	1.11	337	2.67	3.49
Bellevue Hospital Ctr	1511	1.46	1.21	1313	0.46	0.45	198	8.08	5.16
Beth Israel Med Ctr	5073	0.49	0.65	4802	0.27	0.30 **	271	4.43	3.70
Bronx-Lebanon-Cncourse	108	6.48	2.06	5	0.00	0.00	103	6.80	6.84
Brookdale Hosp Med Ctr	472	4.03	2.29 *	310	1.94	1.07	162	8.02	7.97 *
Buffalo General Hosp	4396	0.80	1.08	4033	0.64	0.76	363	2.48	2.95
Cayuga Med Ctr Ithaca	19	0.00	0.00	15	0.00	0.00	4	0.00	0.00
Champ.Valley Phys Hosp	1560	0.58	0.49	1225	0.33	0.34	335	1.49	1.64
Crouse Hospital	1303	1.38	1.44	1091	0.92	1.30 *	212	3.77	3.63
Ellis Hospital	1541	1.04	0.76	1036	0.39	0.44	505	2.38	2.65
Elmhurst Hospital Ctr	1054	0.66	0.51	709	0.28	0.39	345	1.45	1.69
Erie County Med Ctr	535	2.43	1.32	304	0.66	0.76	231	4.76	4.54
Faxton - St. Lukes	349	2.29	1.99	250	1.60	2.11 *	99	4.04	5.25
Glens Falls Hospital	810	1.23	1.29	608	0.49	1.06	202	3.47	3.83
Good Sam - Suffern	2236	1.70	1.42 *	1740	0.57	0.63	496	5.65	5.13 *
Good Sam - West Islip	1816	0.88	1.13	1543	0.26	0.51	273	4.40	4.91
Huntington Hospital	258	1.16	0.47	48	2.08	2.31	210	0.95	1.24
Jamaica Hosp Med Ctr	451	3.55	0.99	37	0.00	0.00	414	3.86	3.44
Lenox Hill Hospital	8504	0.51	0.81	8215	0.41	0.47	289	3.11	3.24
Long Island Jewish	5896	0.51	0.63	5304	0.32	0.36	592	2.20	2.45
Lutheran Medical Ctr	358	1.68	1.05	271	0.37	0.51	87	5.75	4.39
M I Bassett Hospital	1040	1.15	1.05	760	0.39	0.46	280	3.21	4.04
Maimonides Medical Ctr	3700	0.89	0.57 **	3115	0.67	0.41	585	2.05	1.61 **
Mercy Hospital	1857	1.62	1.20	1375	0.65	0.60	482	4.36	4.49
Millard Fillmore Hosp	2759	0.54	0.57	2403	0.37	0.37	356	1.69	1.99
Montefiore - Moses	2427	0.82	0.90	1989	0.40	0.52	438	2.74	3.35
Montefiore - Weiler	2265	1.55	1.94 *	1920	0.99	1.30 *	345	4.64	5.77 *
Mount Sinai Hospital	14414	0.49	0.64 **	14063	0.41	0.41 **	351	3.70	2.55
NY Hospital - Queens	2468	1.30	1.12	2068	0.82	0.90	400	3.75	3.24
NY Methodist Hospital	4041	0.74	0.90	3827	0.44	0.43	214	6.07	4.76
NYP- Columbia Presby.	8750	0.80	0.87	8304	0.65	0.59	446	3.59	2.36
NYP- Weill Cornell	4223	1.09	0.82	3766	0.82	0.63	457	3.28	2.10
NYU Hospitals Center	3328	0.30	0.44 **	3151	0.13	0.16 **	177	3.39	2.91
North Shore Univ Hosp	6112	0.74	0.70	5173	0.56	0.56	939	1.70	1.72 **
Orange Regional Med Ctr	723	1.38	0.99	447	0.67	0.92	276	2.54	3.07
Rochester General Hosp	5801	1.26	1.29 *	4992	0.92	0.77 *	809	3.34	4.33
SVCMC- St. Vincents	1048	0.86	1.81	997	0.30	0.67	51	11.76	9.91 *
South Nassau Comm. Hosp	1314	1.37	0.98	1017	1.18	0.87	297	2.02	2.23
Southside Hospital	1681	0.65	1.00	1465	0.34	0.60	216	2.78	3.89
St. Catherine of Siena	315	0.32	0.22	181	0.00	0.00	134	0.75	0.91
St. Elizabeth Med Ctr	3646	1.07	1.01	3224	0.81	0.78	422	3.08	2.57
St. Francis Hospital	9045	0.61	0.61 **	8532	0.45	0.35 **	513	3.31	2.74
St. Josephs Hospital	6510	0.91	0.83	5382	0.61	0.58	1128	2.30	2.57
St. Lukes at St. Lukes	1540	1.17	0.83	1273	0.47	0.41	267	4.49	3.26
St. Lukes Crnwll-Newbrg	385	1.04	0.69	287	0.35	0.29	98	3.06	2.78
St. Peters Hospital	2404	1.25	1.21	1842	0.92	1.01 *	562	2.31	3.21
Staten Island Univ Hosp	3398	0.79	0.83	2924	0.48	0.51	474	2.74	3.01
Strong Memorial Hosp	3421	1.32	1.24 *	2572	0.78	0.88	849	2.94	3.81
UHS - Wilson Med Ctr	2249	0.76	0.60	1751	0.29	0.32	498	2.41	2.25
Unity Hospital	1152	1.48	1.33	955	0.73	1.10	197	5.08	3.50
Univ. Brooklyn @ LICH	498	1.81	1.38	369	0.54	0.74	129	5.43	5.10
Univ. Hosp - Brooklyn	2296	1.13	1.37	2075	0.87	0.95 *	221	3.62	3.19
Univ. Hosp - Upstate	874	1.49	0.98	624	0.96	0.70	250	2.80	3.04
Univ. Hosp - Stony Brook	5335	1.35	0.98	4118	0.78	0.58	1217	3.29	3.48
Vassar Bros. Med Ctr	2016	0.64	0.64	1567	0.38	0.51	449	1.56	1.93
Westchester Med Ctr	3497	0.97	0.81	2973	0.50	0.44	524	3.63	3.08
White Plains Hospital	130	3.08	1.94	89	1.12	1.47	41	7.32	6.09
Winthrop Univ. Hosp	3353	0.78	0.82	3004	0.50	0.52	349	3.15	3.00
Statewide Total	162918	0.90		141300	0.55		21618	3.17	

* 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.

2008-2010 HOSPITAL AND CARDIOLOGIST DATA FOR PCI

Table 3 provides the number of PCIs, number of PCI patients who died in the hospital or after discharge but within 30 days, OMR, EMR, RAMR and the 95 percent confidence interval for the RAMR for 2008-2010 for cardiologists in each of the 59 hospitals performing PCI during the time period and for each of the hospitals. Table 3 also contains the volume and RAMR for cardiologists and hospitals for non-emergency cases.

This information is presented for each cardiologist who (a) performed 200 or more PCIs during 2008-2010, and/or (b) performed at least one PCI in each of the years 2008-2010. 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 2008-2010.

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

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

Table 3 Cardiologist In-Hospital/30-Day Observed, Expected, and Risk-Adjusted Mortality Rates for PCI in New York State, 2008-2010 Discharges

	Cases	Deaths	ALL CASES				NON-EMERGENCY	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Statewide Total	162918	1468	0.90				141300	0.55
Albany Medical Center Hospital								
#Brady S	484	1	0.21	0.60	0.31	(0.00, 1.74)	407	0.00
##Delago A	1284	9	0.70	0.46	1.37	(0.63, 2.60)	1190	0.99
El-Hajjar M	221	5	2.26	1.04	1.96	(0.63, 4.56)	179	2.39 *
#Esper D	174	2	1.15	0.96	1.08	(0.12, 3.91)	132	0.00
Houghton J	359	4	1.11	0.71	1.41	(0.38, 3.60)	276	1.18
#Macina A	52	1	1.92	1.29	1.34	(0.02, 7.47)	21	0.00
Nappi A	175	1	0.57	0.75	0.69	(0.01, 3.82)	148	1.16
##Papaleo R	560	8	1.43	0.52	2.46 *	(1.06, 4.85)	533	0.89
#Papandrea L	34	0	0.00	2.57	0.00	(0.00, 3.78)	12	0.00
All Others	23	0	0.00	0.46	0.00	(0.00,31.15)	19	0.00
TOTAL	3366	31	0.92	0.63	1.32	(0.89, 1.87)	2917	0.94
Arnot-Ogden Medical Center								
Amin N	518	5	0.97	0.91	0.96	(0.31, 2.24)	386	0.36
#Grella R	456	7	1.54	0.96	1.44	(0.58, 2.97)	346	1.80 *
Yarkoni A	237	4	1.69	0.89	1.72	(0.46, 4.40)	173	1.58
All Others	76	1	1.32	1.61	0.74	(0.01, 4.10)	45	0.00
TOTAL	1287	17	1.32	0.96	1.24	(0.72, 1.98)	950	1.11

Table 3 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Bellevue Hospital Center								
#Attubato M	207	5	2.42	1.38	1.57	(0.51, 3.67)	181	0.92
#Babaev A	14	1	7.14	7.32	0.88	(0.01, 4.89)	3	0.00
#Feit F	230	1	0.43	0.72	0.54	(0.01, 3.01)	204	0.00
#Hegde S	116	0	0.00	0.55	0.00	(0.00, 5.19)	114	0.00
#Iqbal S	190	2	1.05	0.98	0.97	(0.11, 3.49)	159	0.00
#Keller N	20	0	0.00	2.55	0.00	(0.00, 6.48)	6	0.00
##Kurian D	2	0	0.00	0.13	0.00	(0.00,100.0)	2	0.00
#Pena Sing I	361	6	1.66	1.11	1.35	(0.49, 2.93)	327	0.33
##Slater J	51	3	5.88	1.52	3.48	(0.70,10.18)	36	0.00
##Staniloae C	6	0	0.00	0.93	0.00	(0.00,59.16)	5	0.00
##Yatskar L	301	4	1.33	0.95	1.26	(0.34, 3.23)	267	0.94
All Others	13	0	0.00	0.72	0.00	(0.00,35.52)	9	0.00
TOTAL	1511	22	1.46	1.08	1.21	(0.76, 1.83)	1313	0.45
Beth Israel Medical Center								
##Aslam A	416	0	0.00	0.23	0.00	(0.00, 3.41)	415	0.00
##Bhambhani G	187	0	0.00	0.20	0.00	(0.00, 8.78)	187	0.00
#Fox J	1648	10	0.61	0.91	0.60	(0.29, 1.11)	1541	0.31
#Gowda R	1103	10	0.91	0.75	1.08	(0.52, 2.00)	1018	0.62
##Kantrowitz N	24	1	4.17	1.42	2.64	(0.03,14.70)	23	0.00
##Kim B	9	0	0.00	0.25	0.00	(0.00,100.0)	9	0.00
##Kwan T	603	1	0.17	0.33	0.45	(0.01, 2.49)	601	0.00
##Lee P C	34	0	0.00	0.21	0.00	(0.00,45.31)	34	0.00
##Liou M	119	0	0.00	0.50	0.00	(0.00, 5.58)	119	0.00
Patel R H	144	0	0.00	0.38	0.00	(0.00, 6.02)	144	0.00
#Punukollu G	214	0	0.00	0.29	0.00	(0.00, 5.28)	213	0.00
##Rentrop K	1	0	0.00	0.10	0.00	(0.00,100.0)	1	0.00
#Rosero H	383	1	0.26	0.65	0.36	(0.00, 2.02)	358	0.31
##Sehhat K	1	0	0.00	0.12	0.00	(0.00,100.0)	1	0.00
All Others	187	2	1.07	1.77	0.54	(0.06, 1.96)	138	0.00
TOTAL	5073	25	0.49	0.68	0.65	(0.42, 0.96)	4802	0.30 **
Bronx-Lebanon Hospital Ctr Concourse Div								
##Celaj S	10	1	10.00	2.27	3.98	(0.05,22.13)	.	.
##Goldman A Y	20	2	10.00	2.59	3.47	(0.39,12.54)	.	.
##Johnson M	11	1	9.09	2.64	3.10	(0.04,17.27)	2	0.00
#Shaqra H	67	3	4.48	3.04	1.33	(0.27, 3.88)	3	0.00
TOTAL	108	7	6.48	2.84	2.06	(0.82, 4.23)	5	0.00
Brookdale Hospital Medical Center								
##Afflu E	2	0	0.00	0.12	0.00	(0.00,100.0)	2	0.00
#Castillo R	215	9	4.19	1.59	2.37 *	(1.08, 4.50)	129	1.12
#Chadow H	255	10	3.92	1.58	2.23 *	(1.07, 4.10)	179	1.03
TOTAL	472	19	4.03	1.58	2.29 *	(1.38, 3.58)	310	1.07
Buffalo General Hospital								
##Chaudhry E	16	0	0.00	1.03	0.00	(0.00,20.03)	14	0.00
#Conley J	1329	9	0.68	0.61	1.01	(0.46, 1.91)	1283	0.60
#Corbelli J	5	0	0.00	3.07	0.00	(0.00,21.52)	.	.
#Farhi E	761	6	0.79	0.80	0.89	(0.33, 1.94)	678	0.58
##Haq N	8	0	0.00	3.48	0.00	(0.00,11.88)	.	.

Table 3 *continued*

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Buffalo General Hospital, <i>continued</i>								
#Masud A	173	1	0.58	0.58	0.90	(0.01, 5.00)	152	0.00
##Morris W	966	8	0.83	0.62	1.20	(0.52, 2.36)	909	0.75
##Phadke K	20	1	5.00	6.49	0.69	(0.01, 3.86)	1	0.00
##Sullivan P	79	0	0.00	0.90	0.00	(0.00, 4.66)	59	0.00
#Tandar A	89	2	2.25	2.02	1.00	(0.11, 3.63)	41	0.00
#Visco J	858	7	0.82	0.31	2.41 *	(0.96, 4.96)	828	2.04 *
All Others	92	1	1.09	1.25	0.78	(0.01, 4.35)	68	1.16
TOTAL	4396	35	0.80	0.67	1.08	(0.75, 1.50)	4033	0.76
Cayuga Medical Center at Ithaca								
All Others	19	0	0.00	1.10	0.00	(0.00,15.85)	15	0.00
TOTAL	19	0	0.00	1.10	0.00	(0.00,15.85)	15	0.00
Champlain Valley Physicians Hospital								
Bradley W	671	6	0.89	0.90	0.90	(0.33, 1.96)	523	0.67
Garrand T	516	2	0.39	1.30	0.27	(0.03, 0.97)	410	0.00
Gauthier E	360	1	0.28	1.01	0.25	(0.00, 1.37)	285	0.31
#Giambartolomei A	7	0	0.00	0.97	0.00	(0.00,48.61)	6	0.00
#Slotwiner A	6	0	0.00	2.62	0.00	(0.00,20.99)	1	0.00
TOTAL	1560	9	0.58	1.06	0.49	(0.22, 0.93)	1225	0.34
Crouse Hospital								
#Battaglia J	718	7	0.97	0.79	1.11	(0.44, 2.28)	616	1.08
#El-Khally Z	109	1	0.92	1.18	0.70	(0.01, 3.90)	92	2.19
##Ford T	40	1	2.50	1.31	1.72	(0.02, 9.59)	28	4.25
#George A	345	8	2.32	0.90	2.32 *	(1.00, 4.57)	279	1.17
All Others	91	1	1.10	0.76	1.30	(0.02, 7.25)	76	1.56
TOTAL	1303	18	1.38	0.87	1.44	(0.85, 2.27)	1091	1.30 *
Ellis Hospital								
Cospito P	373	5	1.34	1.31	0.92	(0.30, 2.16)	249	0.46
Dempsey S	65	0	0.00	0.62	0.00	(0.00, 8.19)	62	0.00
Jordan M	282	4	1.42	1.36	0.94	(0.25, 2.41)	167	0.87
#Kufs W	103	1	0.97	0.54	1.62	(0.02, 9.01)	96	1.10
Parkes R	469	6	1.28	1.10	1.05	(0.38, 2.28)	312	0.32
Weitz S	249	0	0.00	1.64	0.00 **	(0.00, 0.81)	150	0.00
TOTAL	1541	16	1.04	1.23	0.76	(0.44, 1.24)	1036	0.44
Elmhurst Hospital Center								
#Barman N	50	2	4.00	3.95	0.91	(0.10, 3.29)	9	0.00
#Kamran M	936	4	0.43	0.91	0.42	(0.11, 1.08)	692	0.40
#Kim M	41	1	2.44	2.67	0.82	(0.01, 4.58)	7	0.00
##Pyo R	1	0	0.00	1.79	0.00	(0.00,100.0)	.	.
##Yatskar L	26	0	0.00	3.35	0.00	(0.00, 3.79)	1	0.00
TOTAL	1054	7	0.66	1.18	0.51	(0.20, 1.04)	709	0.39

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Erie County Medical Center								
##Chaudhry E	80	3	3.75	0.93	3.64	(0.73,10.63)	54	0.00
Dashkoff N	375	6	1.60	1.45	0.99	(0.36, 2.16)	233	0.91
##Phadke K	8	0	0.00	4.42	0.00	(0.00, 9.35)	4	0.00
Young H	42	4	9.52	4.54	1.89	(0.51, 4.84)	.	.
All Others	30	0	0.00	1.52	0.00	(0.00, 7.26)	13	0.00
TOTAL	535	13	2.43	1.66	1.32	(0.70, 2.25)	304	0.76
Faxton-St. Lukes Hlthcare- St.Lukes Div								
#Kelberman M	12	1	8.33	1.87	4.01	(0.05,22.31)	7	0.00
#MacIsaac H	24	2	8.33	2.59	2.90	(0.33,10.47)	12	0.00
#Mathew T C	210	2	0.95	0.88	0.97	(0.11, 3.51)	161	0.87
#Nassif R	73	2	2.74	0.72	3.42	(0.38,12.34)	60	7.65 *
#Patel A	9	0	0.00	1.09	0.00	(0.00,33.78)	2	0.00
##Sassower M	10	0	0.00	1.75	0.00	(0.00,18.90)	2	0.00
#Varma P	11	1	9.09	1.08	7.55	(0.10,42.03)	6	9.29
TOTAL	349	8	2.29	1.04	1.99	(0.86, 3.92)	250	2.11 *
Glens Falls Hospital								
Bashir I	431	4	0.93	0.80	1.04	(0.28, 2.66)	328	1.33
##Delago A	1	0	0.00	1.07	0.00	(0.00,100.0)	.	.
Hogan R	372	5	1.34	0.90	1.35	(0.44, 3.15)	280	0.76
##Papaleo R	6	1	16.67	2.98	5.04	(0.07,28.06)	.	.
TOTAL	810	10	1.23	0.86	1.29	(0.62, 2.37)	608	1.06
Good Samaritan Hosp Med Ctr- West Islip								
##Caselnova R	459	5	1.09	0.58	1.70	(0.55, 3.98)	409	0.43
##Deutsch E	95	2	2.11	1.27	1.49	(0.17, 5.38)	72	1.75
##Hormozi S	383	3	0.78	0.69	1.02	(0.20, 2.97)	329	0.00
##Lee P J	376	4	1.06	0.71	1.34	(0.36, 3.44)	324	0.72
##Patel R B	120	1	0.83	1.18	0.64	(0.01, 3.55)	83	0.00
##Reich D	383	1	0.26	0.56	0.42	(0.01, 2.32)	326	0.68
TOTAL	1816	16	0.88	0.70	1.13	(0.65, 1.83)	1543	0.51
Good Samaritan Hospital - Suffern								
#Agarwal A	64	4	6.25	1.35	4.16 *	(1.12,10.65)	41	1.68
Brogno D	555	6	1.08	0.97	1.01	(0.37, 2.19)	478	0.22
Hirsch C	233	6	2.58	1.10	2.10	(0.77, 4.58)	193	0.75
Innerfield M	209	3	1.44	0.94	1.38	(0.28, 4.02)	148	0.90
Kernis S	442	10	2.26	1.41	1.45	(0.69, 2.66)	292	0.45
Kovar L	418	2	0.48	0.93	0.46	(0.05, 1.68)	355	0.47
#Shapira S	83	0	0.00	0.28	0.00	(0.00,14.08)	82	0.00
Shih A C	186	6	3.23	1.30	2.23	(0.82, 4.86)	118	2.59
All Others	46	1	2.17	1.11	1.77	(0.02, 9.86)	33	0.00
TOTAL	2236	38	1.70	1.08	1.42 *	(1.01, 1.95)	1740	0.63

Table 3 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Huntington Hospital								
##Bagga R	86	0	0.00	2.39	0.00	(0.00, 1.61)	14	0.00
##Caselnova R	8	0	0.00	1.03	0.00	(0.00,40.08)	1	0.00
##Jauhar R	1	0	0.00	1.79	0.00	(0.00,100.0)	.	.
##Patcha R	52	0	0.00	1.91	0.00	(0.00, 3.34)	9	0.00
##Schwartz R	8	0	0.00	2.10	0.00	(0.00,19.70)	.	.
##Strizik B	75	2	2.67	2.49	0.97	(0.11, 3.49)	9	0.00
All Others	28	1	3.57	1.85	1.74	(0.02, 9.70)	15	6.85
TOTAL	258	3	1.16	2.21	0.47	(0.10, 1.39)	48	2.31
Jamaica Hospital Medical Center								
#Garratt K	2	0	0.00	1.49	0.00	(0.00,100.0)	.	.
#Jain S	149	7	4.70	3.95	1.07	(0.43, 2.21)	17	0.00
#Kukar A	17	1	5.88	1.96	2.70	(0.04,15.02)	.	.
#Lasic Z	127	4	3.15	2.88	0.98	(0.26, 2.52)	10	0.00
##Parikh M	5	0	0.00	2.33	0.00	(0.00,28.41)	.	.
#Puma A	12	1	8.33	1.77	4.25	(0.06,23.64)	.	.
#Raza J	98	3	3.06	3.72	0.74	(0.15, 2.16)	10	0.00
#Reimers C	1	0	0.00	1.34	0.00	(0.00,100.0)	.	.
#Soffer D	16	0	0.00	1.25	0.00	(0.00,16.49)	.	.
##Suleman J	1	0	0.00	1.34	0.00	(0.00,100.0)	.	.
#Wilentz J	3	0	0.00	1.56	0.00	(0.00,70.60)	.	.
#Yang Y	14	0	0.00	1.82	0.00	(0.00,13.00)	.	.
All Others	6	0	0.00	2.61	0.00	(0.00,21.13)	.	.
TOTAL	451	16	3.55	3.23	0.99	(0.57, 1.61)	37	0.00
Lenox Hill Hospital								
#Aboufares A	195	0	0.00	0.63	0.00	(0.00, 2.69)	189	0.00
##Chang J	3	0	0.00	0.14	0.00	(0.00,100.0)	3	0.00
Cohen H	491	4	0.81	0.57	1.29	(0.35, 3.29)	462	0.80
##Dominguez-Echevarria A	282	1	0.35	0.52	0.62	(0.01, 3.45)	281	0.37
##Fernaine G	279	1	0.36	0.54	0.59	(0.01, 3.30)	274	0.00
#Garratt K	617	4	0.65	0.66	0.89	(0.24, 2.28)	573	0.38
##Geizhals M	8	0	0.00	0.26	0.00	(0.00,100.0)	8	0.00
##Gustafson G	44	0	0.00	0.51	0.00	(0.00,14.63)	44	0.00
Iyer S	297	1	0.34	0.56	0.54	(0.01, 3.03)	278	0.62
#Jain S	419	6	1.43	0.75	1.71	(0.63, 3.73)	403	1.32
##Jayasundera T	91	0	0.00	0.30	0.00	(0.00,12.27)	91	0.00
##Kesanakurthy S	363	1	0.28	0.36	0.68	(0.01, 3.80)	356	0.46
##Kim B	35	0	0.00	0.33	0.00	(0.00,28.29)	35	0.00
#Kukar A	193	0	0.00	0.74	0.00	(0.00, 2.32)	185	0.00
#Lasic Z	402	1	0.25	0.60	0.38	(0.00, 2.09)	395	0.23
Oboler L	13	0	0.00	0.43	0.00	(0.00,58.91)	12	0.00
#Palkhiwala S	106	0	0.00	0.23	0.00	(0.00,13.62)	106	0.00
##Papadakos S	396	3	0.76	0.39	1.77	(0.36, 5.18)	392	1.06
##Parikh M	979	5	0.51	0.58	0.80	(0.26, 1.86)	962	0.42
#Puma A	360	1	0.28	0.39	0.63	(0.01, 3.53)	348	0.45
#Raza J	346	2	0.58	0.73	0.71	(0.08, 2.56)	339	0.42
#Reimers C	944	5	0.53	0.60	0.79	(0.26, 1.85)	912	0.67
##Rentrop K	5	0	0.00	0.49	0.00	(0.00,100.0)	5	0.00
Roubin G	228	0	0.00	0.51	0.00	(0.00, 2.86)	223	0.00
Ruiz C	29	1	3.45	1.29	2.41	(0.03,13.42)	24	2.26

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Lenox Hill Hospital, <i>continued</i>								
#Soffer D	276	1	0.36	0.40	0.81	(0.01, 4.53)	270	0.53
##Stathopoulos I	32	0	0.00	1.07	0.00	(0.00, 9.68)	32	0.00
#Wilentz J	283	0	0.00	0.59	0.00	(0.00, 1.99)	268	0.00
#Yang Y	377	2	0.53	0.46	1.04	(0.12, 3.75)	367	0.64
Zaric M	204	4	1.96	0.80	2.20	(0.59, 5.63)	187	0.00
All Others	207	0	0.00	0.55	0.00	(0.00, 2.93)	191	0.00
TOTAL	8504	43	0.51	0.56	0.81	(0.58, 1.09)	8215	0.47
Long Island Jewish Medical Center								
##Arkonac B	458	6	1.31	1.09	1.08	(0.39, 2.35)	380	0.80
##Bagga R	221	1	0.45	0.52	0.78	(0.01, 4.34)	217	0.56
#Boutis L	31	2	6.45	4.74	1.23	(0.14, 4.43)	5	0.00
##Deutsch E	3	0	0.00	0.61	0.00	(0.00,100.0)	3	0.00
#Dhama B	315	1	0.32	0.64	0.45	(0.01, 2.49)	306	0.28
##Friedman G H	250	0	0.00	0.53	0.00	(0.00, 2.48)	238	0.00
#Green S	24	0	0.00	2.18	0.00	(0.00, 6.31)	4	0.00
##Grunwald A	245	0	0.00	0.71	0.00	(0.00, 1.91)	236	0.00
##Gupta R	78	0	0.00	0.97	0.00	(0.00, 4.36)	76	0.00
Hameedi A	610	0	0.00	0.18	0.00	(0.00, 3.09)	609	0.00
##Jauhar R	1467	9	0.61	0.66	0.84	(0.38, 1.60)	1311	0.53
#Kaplan B	1608	6	0.37	0.76	0.44	(0.16, 0.96)	1448	0.22
##Katz S	22	0	0.00	1.80	0.00	(0.00, 8.33)	7	0.00
##Kim B	97	0	0.00	0.23	0.00	(0.00,15.14)	97	0.00
##Koss J	273	2	0.73	0.67	0.98	(0.11, 3.53)	258	0.45
#Lee A	20	1	5.00	2.47	1.82	(0.02,10.14)	3	0.00
#Marchant D	16	0	0.00	1.78	0.00	(0.00,11.63)	4	0.00
##Musso J	8	0	0.00	0.25	0.00	(0.00,100.0)	8	0.00
#Ong L Y	16	0	0.00	3.17	0.00	(0.00, 6.52)	1	0.00
##Padmanabhan V	1	0	0.00	0.13	0.00	(0.00,100.0)	1	0.00
##Park C	79	2	2.53	0.90	2.54	(0.28, 9.16)	60	1.48
##Reich D	2	0	0.00	0.30	0.00	(0.00,100.0)	2	0.00
#Rutkin B	23	0	0.00	3.58	0.00	(0.00, 4.01)	2	0.00
##Strizik B	18	0	0.00	2.17	0.00	(0.00, 8.46)	17	0.00
##Suleman J	11	0	0.00	0.59	0.00	(0.00,51.32)	11	0.00
TOTAL	5896	30	0.51	0.72	0.63	(0.43, 0.90)	5304	0.36
Lutheran Medical Center								
##Dominguez-Echevarria A	29	0	0.00	0.67	0.00	(0.00,16.90)	28	0.00
##Fernaine G	249	3	1.20	1.00	1.08	(0.22, 3.17)	204	0.67
##Hoyek W	30	1	3.33	1.52	1.98	(0.03,11.01)	18	0.00
##Lee P C	30	0	0.00	2.22	0.00	(0.00, 4.96)	15	0.00
##Pyo R	4	0	0.00	2.69	0.00	(0.00,30.70)	.	.
All Others	16	2	12.50	7.78	1.45	(0.16, 5.23)	6	0.00
TOTAL	358	6	1.68	1.44	1.05	(0.38, 2.28)	271	0.51
M I Bassett Hospital								
Clark V	255	3	1.18	1.06	1.00	(0.20, 2.92)	176	0.65
#Laifer L	88	1	1.14	1.46	0.70	(0.01, 3.90)	50	2.20
McNulty P	272	4	1.47	0.98	1.35	(0.36, 3.46)	204	0.00
Menzies D	425	4	0.94	0.86	0.99	(0.27, 2.53)	330	0.36
TOTAL	1040	12	1.15	0.99	1.05	(0.54, 1.83)	760	0.46

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Maimonides Medical Center								
Ayzenberg S	305	3	0.98	1.83	0.48	(0.10, 1.41)	219	0.61
Borgen E	845	10	1.18	1.74	0.61	(0.29, 1.12)	677	0.46
Frankel R	686	6	0.87	1.06	0.75	(0.27, 1.63)	637	0.60
Friedman M	298	2	0.67	1.76	0.34	(0.04, 1.24)	198	0.00
##Kantrowitz N	32	0	0.00	1.34	0.00	(0.00, 7.74)	32	0.00
Malik B	930	7	0.75	1.26	0.54	(0.22, 1.11)	790	0.17
Shani J	532	5	0.94	0.94	0.90	(0.29, 2.10)	520	0.57
All Others	72	0	0.00	2.59	0.00	(0.00, 1.77)	42	0.00
TOTAL	3700	33	0.89	1.40	0.57 **	(0.40, 0.81)	3115	0.41
Mercy Hospital								
#Calandra S	397	2	0.50	0.95	0.48	(0.05, 1.73)	305	0.00
##Chaudhry E	16	1	6.25	1.60	3.53	(0.05,19.62)	11	9.35
#Emerson R	285	5	1.75	1.57	1.01	(0.33, 2.36)	172	0.43
#Gelormini J	450	11	2.44	1.27	1.73	(0.86, 3.10)	344	1.53 *
##Haq N	280	2	0.71	0.78	0.83	(0.09, 3.00)	230	0.42
#Meltser H	399	9	2.26	1.48	1.37	(0.63, 2.61)	292	0.00
##Morris W	19	0	0.00	0.58	0.00	(0.00,30.09)	15	0.00
##Sullivan P	11	0	0.00	1.86	0.00	(0.00,16.14)	6	0.00
TOTAL	1857	30	1.62	1.22	1.20	(0.81, 1.71)	1375	0.60
Millard Fillmore Hospital								
#Calandra S	45	0	0.00	0.42	0.00	(0.00,17.53)	43	0.00
#Conley J	3	0	0.00	2.06	0.00	(0.00,53.57)	.	.
#Corbelli J	998	9	0.90	0.84	0.97	(0.44, 1.84)	901	0.51
#Emerson R	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
#Farhi E	5	0	0.00	1.51	0.00	(0.00,43.84)	.	.
#Gelormini J	122	0	0.00	0.49	0.00	(0.00, 5.50)	115	0.00
##Haq N	88	0	0.00	0.89	0.00	(0.00, 4.24)	62	0.00
#Masud A	462	0	0.00	0.76	0.00	(0.00, 0.94)	430	0.00
#Meltser H	1	0	0.00	0.16	0.00	(0.00,100.0)	1	0.00
##Morris W	9	0	0.00	2.41	0.00	(0.00,15.24)	.	.
##Phadke K	1004	6	0.60	0.90	0.60	(0.22, 1.31)	848	0.50
##Sullivan P	3	0	0.00	1.38	0.00	(0.00,79.60)	1	0.00
#Tandar A	11	0	0.00	3.94	0.00	(0.00, 7.62)	.	.
#Visco J	2	0	0.00	1.23	0.00	(0.00,100.0)	.	.
All Others	5	0	0.00	6.13	0.00	(0.00,10.78)	1	0.00
TOTAL	2759	15	0.54	0.86	0.57	(0.32, 0.94)	2403	0.37
Montefiore Medical Center - Moses								
##Celaj S	311	4	1.29	0.84	1.38	(0.37, 3.54)	248	0.48
##Goldman A Y	140	1	0.71	0.39	1.65	(0.02, 9.18)	138	1.02
Greenberg M	668	4	0.60	0.77	0.70	(0.19, 1.80)	537	0.25
##Grose R	51	0	0.00	0.70	0.00	(0.00, 9.26)	44	0.00
##Johnson M	188	1	0.53	0.76	0.63	(0.01, 3.52)	153	0.00
#Menegus M	731	9	1.23	1.05	1.06	(0.48, 2.00)	555	0.96
##Pyo R	10	0	0.00	0.19	0.00	(0.00,100.0)	10	0.00
##Sehhat K	66	0	0.00	0.43	0.00	(0.00,11.54)	64	0.00
#Shaqra H	224	0	0.00	0.42	0.00	(0.00, 3.47)	214	0.00
#Srinivas V	2	0	0.00	1.55	0.00	(0.00,100.0)	1	0.00
All Others	36	1	2.78	2.65	0.94	(0.01, 5.25)	25	0.00
TOTAL	2427	20	0.82	0.82	0.90	(0.55, 1.39)	1989	0.52

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Montefiore Medical Center - Weiler								
#Gotsis W	586	10	1.71	0.59	2.62 *	(1.26, 4.83)	528	1.61 *
Monrad E	567	8	1.41	0.81	1.56	(0.67, 3.08)	458	0.46
#Silverman G	399	5	1.25	0.63	1.79	(0.58, 4.19)	331	1.48
Sokol S	283	8	2.83	0.86	2.95 *	(1.27, 5.81)	233	2.92 *
#Srinivas V	430	4	0.93	0.75	1.11	(0.30, 2.84)	370	1.07
TOTAL	2265	35	1.55	0.72	1.94 *	(1.35, 2.70)	1920	1.30 *
Mount Sinai Hospital								
#Barman N	339	2	0.59	1.78	0.30	(0.03, 1.08)	293	0.18
#Dangas G	39	0	0.00	1.65	0.00	(0.00, 5.15)	37	0.00
##Fernaine G	295	0	0.00	0.53	0.00	(0.00, 2.11)	295	0.00
#Hasan C	307	0	0.00	0.29	0.00	(0.00, 3.75)	307	0.00
##Jayasundera T	23	1	4.35	0.80	4.88	(0.06,27.15)	22	3.55
#Kamran M	82	1	1.22	0.35	3.18	(0.04,17.69)	82	2.02
##Kesanakurthy S	57	0	0.00	0.21	0.00	(0.00,27.00)	57	0.00
#Kim M	1833	13	0.71	0.95	0.68	(0.36, 1.16)	1767	0.32
Kini A	3006	11	0.37	0.64	0.51	(0.26, 0.92)	2899	0.31
Krishnan P	381	3	0.79	0.87	0.82	(0.16, 2.39)	355	0.70
Lee J	68	0	0.00	0.33	0.00	(0.00,14.62)	68	0.00
##Lee P C	171	1	0.58	0.29	1.81	(0.02,10.09)	171	1.27
Moreno P	1447	3	0.21	0.65	0.29 **	(0.06, 0.84)	1415	0.24
#Palkhiwala S	672	3	0.45	0.45	0.90	(0.18, 2.62)	672	0.53
##Pyo R	253	1	0.40	0.51	0.70	(0.01, 3.89)	248	0.61
Sharma S	4069	22	0.54	0.65	0.75	(0.47, 1.14)	4042	0.50
##Shih A T	31	0	0.00	1.18	0.00	(0.00, 9.06)	28	0.00
#Simon C	30	1	3.33	0.96	3.12	(0.04,17.35)	30	2.34
##Suleman J	1006	4	0.40	0.70	0.51	(0.14, 1.31)	995	0.38
Wiley J	78	2	2.56	1.17	1.97	(0.22, 7.13)	70	0.98
All Others	227	3	1.32	0.65	1.84	(0.37, 5.38)	210	1.09
TOTAL	14414	71	0.49	0.70	0.64 **	(0.50, 0.80)	14063	0.41 **
NY Hospital Medical Ctr of Queens								
##Chang J	205	4	1.95	0.93	1.90	(0.51, 4.86)	176	1.78
Chiu Sungkin	112	2	1.79	0.27	5.91	(0.66,21.33)	111	3.91
Chiu Sungwai	99	0	0.00	0.32	0.00	(0.00,10.58)	99	0.00
David M	148	0	0.00	0.24	0.00	(0.00, 9.15)	147	0.00
##Friedman G H	56	1	1.79	1.47	1.09	(0.01, 6.07)	42	0.00
##Geizhals M	200	4	2.00	1.23	1.47	(0.39, 3.76)	162	0.00
##Grunwald A	66	0	0.00	0.91	0.00	(0.00, 5.48)	47	0.00
##Gupta R	45	0	0.00	1.09	0.00	(0.00, 6.74)	44	0.00
##Gustafson G	467	7	1.50	0.84	1.61	(0.65, 3.33)	428	1.06
##Kim B	8	0	0.00	0.11	0.00	(0.00,100.0)	8	0.00
##Koss J	39	1	2.56	1.48	1.56	(0.02, 8.66)	24	0.00
Moustakakis E	211	3	1.42	1.61	0.80	(0.16, 2.33)	128	1.21
##Papadakos S	345	5	1.45	1.58	0.83	(0.27, 1.93)	290	0.96
##Park C	389	1	0.26	0.79	0.29	(0.00, 1.62)	304	0.49
#Perry-Bottinger L	12	0	0.00	0.22	0.00	(0.00,100.0)	12	0.00
##Stathopoulos I	50	4	8.00	3.83	1.88	(0.51, 4.82)	33	1.51
All Others	16	0	0.00	0.50	0.00	(0.00,41.27)	13	0.00
TOTAL	2468	32	1.30	1.04	1.12	(0.77, 1.58)	2068	0.90

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
NY Methodist Hospital								
##Afflu E	24	0	0.00	0.27	0.00	(0.00,51.06)	24	0.00
##Aslam A	117	1	0.85	0.24	3.19	(0.04,17.77)	115	2.19
#Badero O	158	0	0.00	0.29	0.00	(0.00, 7.12)	158	0.00
##Bhambhani G	123	0	0.00	0.19	0.00	(0.00,13.84)	123	0.00
Brener S	714	15	2.10	1.68	1.13	(0.63, 1.86)	599	0.54
#Chokshi A	274	1	0.36	0.38	0.86	(0.01, 4.80)	274	0.50
##Dominguez-Echevarria A	66	0	0.00	0.43	0.00	(0.00,11.65)	66	0.00
##Hoyek W	345	0	0.00	0.39	0.00	(0.00, 2.43)	343	0.00
#Jasty B	53	0	0.00	0.76	0.00	(0.00, 8.17)	52	0.00
#John S	15	0	0.00	0.45	0.00	(0.00,48.88)	15	0.00
##Kesanakurthy S	1	0	0.00	0.19	0.00	(0.00,100.0)	1	0.00
##Kokolis S	4	0	0.00	0.22	0.00	(0.00,100.0)	4	0.00
Palta S	117	0	0.00	0.21	0.00	(0.00,13.66)	117	0.00
#Punukollu G	18	0	0.00	0.29	0.00	(0.00,63.90)	18	0.00
#Rouvelas P	223	3	1.35	0.58	2.08	(0.42, 6.06)	222	1.21
Sacchi T	1082	4	0.37	0.67	0.50	(0.13, 1.28)	1004	0.20
Shaknovich A	305	0	0.00	0.55	0.00	(0.00, 1.96)	303	0.00
##Sherman W	30	0	0.00	0.28	0.00	(0.00,39.04)	30	0.00
Wikramanayake T	209	5	2.39	1.16	1.85	(0.60, 4.32)	199	1.05
All Others	163	1	0.61	0.52	1.07	(0.01, 5.94)	160	0.65
TOTAL	4041	30	0.74	0.74	0.90	(0.61, 1.28)	3827	0.43
NYP Hospital - Columbia Presbyterian								
#Apfelbaum M	91	0	0.00	0.66	0.00	(0.00, 5.51)	80	0.00
Collins M	655	7	1.07	0.99	0.97	(0.39, 2.00)	625	0.67
#Dangas G	407	2	0.49	1.26	0.35	(0.04, 1.27)	364	0.40
##Dominguez-Echevarria A	105	0	0.00	0.50	0.00	(0.00, 6.24)	105	0.00
Goyal N	40	1	2.50	0.42	5.35	(0.07,29.76)	40	2.99
Gray W	100	3	3.00	2.89	0.94	(0.19, 2.74)	67	0.00
##Grose R	267	1	0.37	0.60	0.57	(0.01, 3.15)	258	0.00
Irobunda C	99	1	1.01	0.44	2.05	(0.03,11.40)	97	1.33
##Johnson M	147	1	0.68	0.42	1.44	(0.02, 8.03)	144	0.86
##Kesanakurthy S	875	10	1.14	0.73	1.40	(0.67, 2.58)	861	0.94
Kirtane A	453	6	1.32	1.00	1.19	(0.44, 2.60)	422	0.78
#Kodali S	475	8	1.68	0.90	1.68	(0.72, 3.31)	436	1.28
Kreps E	175	3	1.71	1.37	1.13	(0.23, 3.30)	161	0.78
#Laifer L	23	0	0.00	0.26	0.00	(0.00,56.12)	23	0.00
Leon M	167	2	1.20	0.57	1.88	(0.21, 6.79)	166	1.09
Mehran R	161	2	1.24	1.43	0.78	(0.09, 2.83)	141	0.57
#Moses J	1695	7	0.41	0.52	0.71	(0.29, 1.47)	1694	0.44
##Parikh M	28	0	0.00	0.64	0.00	(0.00,18.30)	28	0.00
#Perry-Bottinger L	76	1	1.32	0.57	2.08	(0.03,11.56)	76	1.24
Rabbani L	588	3	0.51	0.93	0.49	(0.10, 1.45)	531	0.00**
##Sehhat K	1	0	0.00	1.06	0.00	(0.00,100.0)	1	0.00
##Sherman W	176	1	0.57	1.20	0.43	(0.01, 2.38)	155	0.00
Singh V	1243	4	0.32	0.44	0.65	(0.18, 1.67)	1227	0.51
Stone G	56	0	0.00	0.52	0.00	(0.00,11.41)	55	0.00
Teirstein P	12	0	0.00	1.98	0.00	(0.00,13.90)	11	0.00
#Weinberger J	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
Weisz G	341	3	0.88	1.20	0.66	(0.13, 1.93)	294	0.54
Williams M	191	3	1.57	1.86	0.76	(0.15, 2.23)	163	0.70
All Others	102	1	0.98	2.55	0.35	(0.00, 1.93)	78	0.00
TOTAL	8750	70	0.80	0.83	0.87	(0.68, 1.10)	8304	0.59

Table 3 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
NYP Hospital - Weill Cornell								
#Aboufares A	12	0	0.00	0.43	0.00	(0.00,63.42)	12	0.00
Bergman G	745	5	0.67	1.13	0.53	(0.17, 1.24)	669	0.66
##Charney R	312	1	0.32	0.70	0.42	(0.01, 2.31)	308	0.25
Feldman D	509	6	1.18	1.36	0.78	(0.29, 1.71)	435	0.70
##Geizhals M	9	0	0.00	0.28	0.00	(0.00,100.0)	9	0.00
Iacovone F	95	1	1.05	0.77	1.23	(0.02, 6.85)	93	0.00
##Kesanakurthy S	156	1	0.64	0.46	1.26	(0.02, 7.01)	156	0.85
##Messinger D	190	3	1.58	1.21	1.17	(0.24, 3.42)	184	0.86
Minutello R	714	5	0.70	1.20	0.53	(0.17, 1.23)	602	0.36
#Moses J	39	0	0.00	0.42	0.00	(0.00,20.10)	39	0.00
Moussa I	314	8	2.55	2.48	0.92	(0.40, 1.82)	248	0.48
##Padmanabhan V	18	0	0.00	0.41	0.00	(0.00,44.99)	18	0.00
Sharma A	45	0	0.00	1.42	0.00	(0.00, 5.18)	36	0.00
#Slotwiner A	242	6	2.48	1.98	1.13	(0.41, 2.46)	202	1.17
Wong S	766	7	0.91	0.83	1.00	(0.40, 2.05)	715	0.74
All Others	57	3	5.26	1.83	2.58	(0.52, 7.55)	40	2.18
TOTAL	4223	46	1.09	1.20	0.82	(0.60, 1.09)	3766	0.63
NYU Hospitals Center								
#Attubato M	1034	6	0.58	0.73	0.72	(0.26, 1.56)	988	0.29
#Babaev A	531	0	0.00	0.42	0.00	(0.00, 1.47)	523	0.00
#Feit F	648	2	0.31	0.53	0.52	(0.06, 1.88)	597	0.00
#Iqbal S	16	0	0.00	1.18	0.00	(0.00,17.57)	9	0.00
##Jayasundera T	384	0	0.00	0.25	0.00	(0.00, 3.40)	384	0.00
#Keller N	11	1	9.09	5.11	1.60	(0.02, 8.91)	.	.
##Kokolis S	13	0	0.00	0.22	0.00	(0.00,100.0)	13	0.00
##Kurian D	10	0	0.00	0.35	0.00	(0.00,94.57)	10	0.00
##Kwan T	14	0	0.00	0.17	0.00	(0.00,100.0)	14	0.00
##Liou M	54	0	0.00	0.22	0.00	(0.00,27.66)	54	0.00
#Pena Sing I	84	0	0.00	0.78	0.00	(0.00, 5.04)	71	0.00
##Rentrop K	6	0	0.00	0.16	0.00	(0.00,100.0)	6	0.00
##Shih A T	2	0	0.00	0.21	0.00	(0.00,100.0)	2	0.00
##Slater J	291	1	0.34	1.17	0.26	(0.00, 1.47)	260	0.46
##Srivastava S	5	0	0.00	0.21	0.00	(0.00,100.0)	5	0.00
##Staniloae C	35	0	0.00	0.80	0.00	(0.00,11.82)	34	0.00
##Stathopoulos I	2	0	0.00	0.31	0.00	(0.00,100.0)	2	0.00
#Weinberger J	12	0	0.00	0.42	0.00	(0.00,65.25)	12	0.00
##Yatskar L	122	0	0.00	0.54	0.00	(0.00, 4.98)	113	0.00
All Others	54	0	0.00	0.51	0.00	(0.00,12.09)	54	0.00
TOTAL	3328	10	0.30	0.62	0.44 **	(0.21, 0.81)	3151	0.16 **
North Shore University Hospital								
#Angelopoulos P	2	0	0.00	0.11	0.00	(0.00,100.0)	2	0.00
##Arkonac B	38	2	5.26	5.07	0.94	(0.11, 3.38)	4	0.00
##Bagga R	20	0	0.00	0.47	0.00	(0.00,35.04)	19	0.00
#Blumenthal S	30	0	0.00	0.20	0.00	(0.00,55.32)	29	0.00
#Boutis L	575	3	0.52	1.61	0.29 **	(0.06, 0.85)	405	0.53
##Caselnova R	114	1	0.88	0.54	1.47	(0.02, 8.16)	114	0.94
##Deutsch E	58	2	3.45	0.57	5.41	(0.61,19.53)	58	3.12
#Dhama B	172	0	0.00	0.61	0.00	(0.00, 3.17)	165	0.00
#Freeman J	13	0	0.00	1.27	0.00	(0.00,20.07)	12	0.00

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
North Shore University Hospital, <i>continued</i>								
##Friedman G H	134	1	0.75	0.66	1.02	(0.01, 5.69)	125	0.00
##Gambino A	47	0	0.00	0.36	0.00	(0.00,19.27)	46	0.00
#Green S	510	4	0.78	1.20	0.59	(0.16, 1.51)	414	0.52
##Grunwald A	116	1	0.86	0.47	1.64	(0.02, 9.12)	110	1.28
##Gustafson G	10	0	0.00	0.42	0.00	(0.00,78.29)	10	0.00
##Hormozi S	150	1	0.67	0.61	0.98	(0.01, 5.48)	146	0.72
##Jauhar R	29	0	0.00	2.10	0.00	(0.00, 5.42)	2	0.00
#Kaplan B	38	1	2.63	3.12	0.76	(0.01, 4.24)	2	0.00
##Katz S	494	4	0.81	0.99	0.74	(0.20, 1.89)	409	0.00
##Kim B	18	0	0.00	0.31	0.00	(0.00,59.69)	18	0.00
##Koss J	106	0	0.00	0.76	0.00	(0.00, 4.09)	92	0.00
#Lederman S	31	0	0.00	0.35	0.00	(0.00,30.54)	31	0.00
#Lee A	539	8	1.48	1.20	1.12	(0.48, 2.21)	420	0.75
##Lee P J	70	2	2.86	0.49	5.28	(0.59,19.05)	69	3.00
#Marchant D	245	0	0.00	1.30	0.00	(0.00, 1.04)	169	0.00
##Musso J	2	0	0.00	4.39	0.00	(0.00,37.63)	2	0.00
#Ong L Y	746	4	0.54	0.71	0.68	(0.18, 1.74)	662	0.64
##Padmanabhan V	82	0	0.00	0.27	0.00	(0.00,15.10)	80	0.00
##Papadakos S	34	0	0.00	0.35	0.00	(0.00,27.47)	34	0.00
##Park C	7	0	0.00	3.92	0.00	(0.00,12.05)	.	.
##Patcha R	231	1	0.43	0.52	0.76	(0.01, 4.21)	226	0.51
##Patel R B	15	0	0.00	0.33	0.00	(0.00,66.99)	15	0.00
##Rehman A	11	0	0.00	1.40	0.00	(0.00,21.50)	11	0.00
##Reich D	72	0	0.00	0.58	0.00	(0.00, 7.87)	71	0.00
##Rosenband M	2	0	0.00	0.31	0.00	(0.00,100.0)	2	0.00
#Rutkin B	374	4	1.07	1.18	0.82	(0.22, 2.09)	261	0.78
Salimi A	82	1	1.22	0.37	3.00	(0.04,16.68)	82	1.86
##Sassower M	1	0	0.00	0.14	0.00	(0.00,100.0)	1	0.00
##Schwartz R	134	0	0.00	0.66	0.00	(0.00, 3.72)	131	0.00
##Strizik B	384	2	0.52	0.67	0.70	(0.08, 2.53)	362	0.50
#Wachsman D	111	0	0.00	0.54	0.00	(0.00, 5.56)	104	0.00
#Witkes D	110	0	0.00	0.46	0.00	(0.00, 6.55)	107	0.00
##Zisfein J	2	0	0.00	0.27	0.00	(0.00,100.0)	2	0.00
All Others	153	3	1.96	0.63	2.79	(0.56, 8.15)	149	1.85
TOTAL	6112	45	0.74	0.95	0.70	(0.51, 0.94)	5173	0.56
Orange Regional Medical Center								
#Agarwal A	7	1	14.29	0.14	94.21 *	(1.23,100.0)	7	85.80 *
##Celaj S	2	1	50.00	4.45	10.12	(0.13,56.30)	.	.
#Gotsis W	281	5	1.78	1.28	1.26	(0.40, 2.93)	161	0.00
##Kalapatapu K	93	1	1.08	0.43	2.28	(0.03,12.67)	90	1.45
#Menegus M	1	0	0.00	6.08	0.00	(0.00,54.39)	.	.
#Shapira S	155	1	0.65	1.03	0.56	(0.01, 3.13)	108	1.68
#Silverman G	184	1	0.54	1.85	0.27	(0.00, 1.48)	81	0.00
TOTAL	723	10	1.38	1.26	0.99	(0.47, 1.81)	447	0.92

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Rochester General Hospital								
Berlowitz M	453	2	0.44	0.91	0.44	(0.05, 1.58)	334	0.26
##Chockalingam S	308	6	1.95	0.93	1.89	(0.69, 4.12)	272	1.31
##Doling M	3	0	0.00	0.33	0.00	(0.00,100.0)	3	0.00
Fitzpatrick P	329	8	2.43	1.22	1.80	(0.77, 3.54)	209	0.52
Gacioch G	405	2	0.49	1.17	0.38	(0.04, 1.37)	309	0.00
Mathew T M	552	9	1.63	0.71	2.06 *	(0.94, 3.91)	519	1.22
#Ong L S	2040	22	1.08	0.76	1.27	(0.80, 1.93)	1882	0.77
#Patel T	393	9	2.29	1.24	1.66	(0.76, 3.15)	367	0.95
Scortichini D	264	3	1.14	0.48	2.14	(0.43, 6.26)	258	1.46
#Stuver T	1009	12	1.19	0.91	1.18	(0.61, 2.05)	795	0.68
All Others	45	0	0.00	0.91	0.00	(0.00, 8.03)	44	0.00
TOTAL	5801	73	1.26	0.88	1.29 *	(1.01, 1.62)	4992	0.77 *
SVCMC - St. Vincents¹								
##Aslam A ¹	1	0	0.00	0.07	0.00	(0.00,100.0)	1	0.00
##Bhambhani G ¹	364	1	0.27	0.20	1.24	(0.02, 6.87)	363	0.00
##Chokshi A	35	0	0.00	0.41	0.00	(0.00,22.96)	34	0.00
##Dominguez-Echevarria A ¹	21	0	0.00	0.25	0.00	(0.00,62.63)	21	0.00
##Gupta R ¹	41	0	0.00	0.58	0.00	(0.00,14.00)	37	0.00
#Hasan C ¹	43	0	0.00	0.39	0.00	(0.00,19.96)	43	0.00
##Kurian D ¹	94	0	0.00	0.50	0.00	(0.00, 7.00)	86	0.00
##Kwan T ¹	66	0	0.00	0.27	0.00	(0.00,18.30)	65	0.00
##Liou M ¹	10	0	0.00	0.43	0.00	(0.00,77.69)	10	0.00
##Rentrop K ¹	8	0	0.00	0.11	0.00	(0.00,100.0)	8	0.00
##Sehhat K ¹	18	0	0.00	0.20	0.00	(0.00,92.15)	18	0.00
##Srivastava S ¹	33	1	3.03	0.58	4.70	(0.06,26.15)	32	6.11
##Staniloae C ¹	111	3	2.70	0.52	4.72 *	(0.95,13.80)	97	1.92
All Others	203	4	1.97	0.81	2.19	(0.59, 5.59)	182	0.99
TOTAL	1048	9	0.86	0.43	1.81	(0.83, 3.44)	997	0.67
South Nassau Communities Hospital								
#Berke A	9	0	0.00	5.27	0.00	(0.00, 6.97)	.	.
#Freeman J	822	13	1.58	1.28	1.12	(0.59, 1.91)	620	1.05
##Hormozi S	10	0	0.00	2.33	0.00	(0.00,14.16)	4	0.00
#Lituchy A	13	0	0.00	1.47	0.00	(0.00,17.34)	5	0.00
#Petrossian G	62	3	4.84	1.76	2.47	(0.50, 7.22)	56	2.43
##Rehman A	31	1	3.23	2.55	1.14	(0.01, 6.34)	14	0.00
##Zisfein J	367	1	0.27	0.91	0.27	(0.00, 1.51)	318	0.24
TOTAL	1314	18	1.37	1.26	0.98	(0.58, 1.54)	1017	0.87
Southside Hospital								
##Caselnova R	39	0	0.00	2.52	0.00	(0.00, 3.36)	15	0.00
##Deutsch E	509	3	0.59	0.45	1.17	(0.23, 3.41)	477	0.70
##Hormozi S	162	0	0.00	0.98	0.00	(0.00, 2.09)	118	0.00
##Katz S	7	0	0.00	0.13	0.00	(0.00,100.0)	7	0.00
##Lee P J	388	6	1.55	0.51	2.74 *	(1.00, 5.97)	347	1.80
##Patel R B	301	1	0.33	0.47	0.64	(0.01, 3.54)	267	0.00
##Reich D	275	1	0.36	0.61	0.54	(0.01, 2.99)	234	0.00
TOTAL	1681	11	0.65	0.59	1.00	(0.50, 1.78)	1465	0.60

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
St. Catherine of Siena Hospital								
##Deutsch E	61	0	0.00	0.67	0.00	(0.00, 8.09)	48	0.00
##Hormozi S	53	0	0.00	1.06	0.00	(0.00, 5.91)	26	0.00
#Khan S	24	0	0.00	1.36	0.00	(0.00,10.12)	14	0.00
#Madrid A	10	0	0.00	4.05	0.00	(0.00, 8.16)	.	.
##Patel R B	82	0	0.00	1.11	0.00	(0.00, 3.62)	50	0.00
##Rosenband M	44	1	2.27	1.67	1.23	(0.02, 6.83)	29	0.00
#Tsiamtsiouris T	18	0	0.00	2.52	0.00	(0.00, 7.30)	.	.
#Weinstein J	23	0	0.00	0.97	0.00	(0.00,14.80)	14	0.00
TOTAL	315	1	0.32	1.28	0.22	(0.00, 1.25)	181	0.00
St. Elizabeth Medical Center								
#Kelberman M	515	3	0.58	0.72	0.73	(0.15, 2.13)	464	0.64
#MacIsaac H	785	7	0.89	1.28	0.63	(0.25, 1.30)	674	0.51
#Mathew T C	451	6	1.33	0.77	1.56	(0.57, 3.40)	406	1.30
#Nassif R	231	3	1.30	0.85	1.38	(0.28, 4.02)	209	0.47
#Patel A	381	3	0.79	1.07	0.67	(0.13, 1.95)	324	0.75
##Sassower M	817	10	1.22	0.96	1.15	(0.55, 2.11)	733	0.76
#Varma P	466	7	1.50	0.83	1.64	(0.66, 3.37)	414	1.21
TOTAL	3646	39	1.07	0.96	1.01	(0.71, 1.37)	3224	0.78
St. Francis Hospital								
Abittan M	330	0	0.00	0.95	0.00	(0.00, 1.05)	315	0.00
##Arkonac B	88	2	2.27	1.26	1.62	(0.18, 5.86)	79	1.26
#Berke A	350	2	0.57	1.48	0.35	(0.04, 1.26)	323	0.33
##Chang J	15	0	0.00	0.20	0.00	(0.00,100.0)	15	0.00
##Deutsch E	2	0	0.00	0.21	0.00	(0.00,100.0)	2	0.00
Ezratty A	253	3	1.19	1.02	1.04	(0.21, 3.05)	223	0.29
##Friedman G H	82	1	1.22	0.84	1.30	(0.02, 7.24)	70	1.08
##Gambino A	10	0	0.00	0.17	0.00	(0.00,100.0)	10	0.00
Goldman A B	130	0	0.00	1.15	0.00	(0.00, 2.20)	112	0.00
##Grunwald A	51	0	0.00	0.57	0.00	(0.00,11.38)	43	0.00
Gulotta R	230	3	1.30	1.34	0.88	(0.18, 2.57)	218	0.29
##Koss J	44	1	2.27	2.70	0.76	(0.01, 4.22)	35	0.00
##Lee P J	79	0	0.00	0.61	0.00	(0.00, 6.86)	79	0.00
#Lituchy A	545	2	0.37	0.89	0.37	(0.04, 1.34)	514	0.00 **
#Madrid A	268	0	0.00	0.84	0.00	(0.00, 1.48)	236	0.00
Minadeo J	265	3	1.13	1.31	0.78	(0.16, 2.27)	220	0.53
Oruci E	231	0	0.00	0.72	0.00	(0.00, 1.98)	226	0.00
##Papadakos S	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
Pappas T	290	0	0.00	0.71	0.00	(0.00, 1.60)	281	0.00
##Patcha R	13	0	0.00	0.17	0.00	(0.00,100.0)	13	0.00
#Petrossian G	1237	6	0.49	0.89	0.49	(0.18, 1.07)	1190	0.30
##Rehman A	573	5	0.87	0.87	0.91	(0.29, 2.12)	521	0.46
##Reich D	46	0	0.00	0.67	0.00	(0.00,10.76)	46	0.00
##Schwartz R	11	0	0.00	1.97	0.00	(0.00,15.28)	11	0.00
Shlofmitz R	2880	13	0.45	0.61	0.67	(0.36, 1.15)	2832	0.41
#Tsiamtsiouris T	471	6	1.27	1.33	0.86	(0.32, 1.88)	433	0.43
Venditto J	240	1	0.42	1.18	0.32	(0.00, 1.77)	215	0.00
#Wachsman D	4	0	0.00	0.20	0.00	(0.00,100.0)	4	0.00
##Zisfein J	84	1	1.19	1.26	0.85	(0.01, 4.73)	83	0.57
All Others	222	6	2.70	1.36	1.80	(0.66, 3.91)	182	2.06 *
TOTAL	9045	55	0.61	0.89	0.61 **	(0.46, 0.80)	8532	0.35 **

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
St. Josephs Hospital								
Bhan R	503	4	0.80	0.75	0.96	(0.26, 2.46)	445	0.93
Caputo R	1183	8	0.68	0.90	0.68	(0.29, 1.34)	999	0.30
#El-Khally Z	945	11	1.16	1.05	1.00	(0.50, 1.79)	836	0.54
Fischi M	1036	8	0.77	1.10	0.63	(0.27, 1.25)	838	0.71
##Ford T	36	0	0.00	0.76	0.00	(0.00,12.05)	30	0.00
#Giambartolomei A	332	6	1.81	1.34	1.21	(0.44, 2.64)	241	0.80
Iskander A	698	7	1.00	0.99	0.91	(0.37, 1.88)	573	0.43
O'Hern M	371	2	0.54	1.04	0.47	(0.05, 1.68)	325	0.29
Reger M	342	3	0.88	0.79	1.00	(0.20, 2.92)	283	0.95
Simons A	698	9	1.29	1.02	1.13	(0.52, 2.15)	514	0.81
Walford G	302	1	0.33	1.00	0.30	(0.00, 1.65)	234	0.37
All Others	64	0	0.00	0.26	0.00	(0.00,19.85)	64	0.00
TOTAL	6510	59	0.91	0.99	0.83	(0.63, 1.07)	5382	0.58
St. Lukes Cornwall Hospital - Newburgh								
#Hadid A	115	3	2.61	1.38	1.70	(0.34, 4.98)	90	0.79
#Hadid A B	92	0	0.00	1.73	0.00	(0.00, 2.08)	67	0.00
#Jafar M	5	0	0.00	0.99	0.00	(0.00,67.11)	3	0.00
#Shah N	105	1	0.95	1.46	0.59	(0.01, 3.28)	80	0.00
All Others	68	0	0.00	0.72	0.00	(0.00, 6.72)	47	0.00
TOTAL	385	4	1.04	1.36	0.69	(0.18, 1.76)	287	0.29
St. Lukes Roosevelt Hospital - St. Lukes								
#Coven D	200	2	1.00	1.07	0.84	(0.09, 3.03)	148	0.00
##Goldman A Y	38	0	0.00	0.23	0.00	(0.00,37.57)	38	0.00
Hong M	389	3	0.77	0.99	0.70	(0.14, 2.05)	337	0.38
Leber R	234	1	0.43	0.87	0.44	(0.01, 2.47)	191	0.00
Palazzo A	134	2	1.49	0.88	1.52	(0.17, 5.49)	109	0.00
#Simon C	370	7	1.89	1.87	0.91	(0.37, 1.88)	316	0.62
##Slater J	26	0	0.00	0.36	0.00	(0.00,35.38)	25	0.00
Tamis-Holland J	140	3	2.14	2.33	0.83	(0.17, 2.42)	101	0.91
All Others	9	0	0.00	0.51	0.00	(0.00,71.43)	8	0.00
TOTAL	1540	18	1.17	1.27	0.83	(0.49, 1.31)	1273	0.41
St. Peters Hospital								
Bishop G	330	5	1.52	0.93	1.47	(0.47, 3.42)	212	0.49
#Brady S	76	0	0.00	0.63	0.00	(0.00, 6.93)	63	0.00
##Delago A	30	0	0.00	2.05	0.00	(0.00, 5.39)	17	0.00
Desantis J	78	1	1.28	0.87	1.32	(0.02, 7.37)	53	3.18
#Esper D	368	3	0.82	0.91	0.81	(0.16, 2.36)	334	0.32
#Kufs W	82	0	0.00	0.49	0.00	(0.00, 8.25)	78	0.00
#Macina A	3	0	0.00	2.19	0.00	(0.00,50.34)	.	.
Martinelli M	596	8	1.34	0.86	1.40	(0.60, 2.76)	463	1.37
##Papaleo R	13	0	0.00	0.61	0.00	(0.00,41.36)	7	0.00
#Papandrea L	214	3	1.40	0.54	2.33	(0.47, 6.81)	188	1.65
Roccario E	585	9	1.54	1.12	1.24	(0.57, 2.36)	407	1.38
All Others	29	1	3.45	2.74	1.14	(0.01, 6.32)	20	0.00
TOTAL	2404	30	1.25	0.93	1.21	(0.82, 1.73)	1842	1.01 *

Table 3 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Staten Island University Hospital - North								
Baldari D	257	2	0.78	1.15	0.61	(0.07, 2.20)	213	0.37
Duvvuri S	336	2	0.60	0.80	0.67	(0.08, 2.42)	299	0.31
Farid A	265	1	0.38	0.52	0.65	(0.01, 3.63)	248	0.00
##Hoyek W	194	2	1.03	0.90	1.03	(0.12, 3.71)	159	0.87
Malpeso J	253	0	0.00	0.97	0.00	(0.00, 1.35)	203	0.00
McCord D	509	3	0.59	0.72	0.74	(0.15, 2.17)	465	0.30
Mohan R	14	0	0.00	0.40	0.00	(0.00,59.04)	13	0.00
#Rouvelas P	2	0	0.00	0.13	0.00	(0.00,100.0)	2	0.00
Snyder S	211	4	1.90	0.82	2.08	(0.56, 5.34)	174	1.04
Swamy S	231	2	0.87	0.50	1.56	(0.18, 5.63)	228	1.01
Tamburrino F	568	5	0.88	0.88	0.90	(0.29, 2.11)	499	0.61
Vazzana T	82	1	1.22	0.41	2.70	(0.04,15.01)	79	3.06
Warchol A	131	2	1.53	1.01	1.36	(0.15, 4.92)	95	0.00
All Others	345	3	0.87	1.36	0.58	(0.12, 1.68)	247	0.39
TOTAL	3398	27	0.79	0.86	0.83	(0.55, 1.21)	2924	0.51
Strong Memorial Hospital								
##Chockalingam S	1	0	0.00	0.39	0.00	(0.00,100.0)	1	0.00
Cove C	523	11	2.10	1.06	1.78	(0.89, 3.19)	386	1.43
##Doling M	730	13	1.78	0.84	1.92 *	(1.02, 3.28)	585	1.09
Garringer J	176	3	1.70	0.80	1.92	(0.39, 5.61)	145	1.99
Gassler J	595	4	0.67	0.85	0.71	(0.19, 1.82)	442	0.58
#Ling F	528	5	0.95	1.28	0.67	(0.21, 1.55)	388	0.24
#Narins C	664	6	0.90	0.88	0.92	(0.34, 2.00)	495	0.46
Pomerantz R	171	3	1.75	1.02	1.55	(0.31, 4.53)	106	3.18
All Others	33	0	0.00	0.75	0.00	(0.00,13.41)	24	0.00
TOTAL	3421	45	1.32	0.96	1.24 *	(0.90, 1.65)	2572	0.88
United Health Services - Wilson Hospital								
Ahmed O	278	0	0.00	0.87	0.00	(0.00, 1.37)	216	0.00
Jamal N	502	3	0.60	1.22	0.44	(0.09, 1.29)	423	0.68
Kashou H	526	6	1.14	1.02	1.01	(0.37, 2.19)	385	0.64
Rehman A U	264	5	1.89	1.70	1.00	(0.32, 2.34)	191	0.00
Stamato N	280	0	0.00	1.16	0.00	(0.00, 1.02)	212	0.00
Traverse P	399	3	0.75	1.00	0.68	(0.14, 1.98)	324	0.00
TOTAL	2249	17	0.76	1.14	0.60	(0.35, 0.96)	1751	0.32
Unity Hospital of Rochester								
##Chockalingam S	8	0	0.00	0.46	0.00	(0.00,90.24)	7	0.00
##Doling M	47	1	2.13	0.36	5.40	(0.07,30.04)	45	5.02
#Ling F	29	1	3.45	1.23	2.53	(0.03,14.07)	26	0.00
#Narins C	56	0	0.00	0.36	0.00	(0.00,16.52)	54	0.00
#Ong L S	19	0	0.00	2.56	0.00	(0.00, 6.80)	13	0.00
#Patel T	981	15	1.53	1.03	1.34	(0.75, 2.21)	800	1.10
#Stuver T	7	0	0.00	1.66	0.00	(0.00,28.41)	5	0.00
All Others	5	0	0.00	1.84	0.00	(0.00,35.86)	5	0.00
TOTAL	1152	17	1.48	1.00	1.33	(0.77, 2.13)	955	1.10

Table 3 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
University Hospital - Brooklyn								
##Afflu E	26	0	0.00	0.41	0.00	(0.00,30.90)	26	0.00
#Badero O	23	0	0.00	0.35	0.00	(0.00,40.76)	23	0.00
##Bhambhani G	68	0	0.00	0.73	0.00	(0.00, 6.69)	67	0.00
#Castillo R	193	2	1.04	0.82	1.14	(0.13, 4.11)	167	0.62
Cavusoglu E	497	3	0.60	0.83	0.66	(0.13, 1.92)	442	0.25
#Chadow H	173	4	2.31	0.81	2.57	(0.69, 6.58)	150	1.73
Feit A	423	4	0.95	0.61	1.40	(0.38, 3.59)	384	0.85
#Hegde S	27	1	3.70	2.57	1.30	(0.02, 7.22)	3	0.00
#Jasty B	142	2	1.41	0.32	4.01	(0.45,14.49)	141	2.33
##Jayasundera T	3	0	0.00	5.67	0.00	(0.00,19.43)	.	.
#John S	235	4	1.70	0.59	2.62	(0.70, 6.70)	233	1.59
##Kokolis S	9	0	0.00	0.41	0.00	(0.00,90.67)	9	0.00
Marmur J	464	6	1.29	0.84	1.39	(0.51, 3.02)	417	1.03
All Others	13	0	0.00	0.72	0.00	(0.00,35.24)	13	0.00
TOTAL	2296	26	1.13	0.74	1.37	(0.90, 2.01)	2075	0.95 *
University Hospital - Brooklyn @ LICH								
##Aslam A	18	0	0.00	0.28	0.00	(0.00,65.79)	17	0.00
#Coven D	10	2	20.00	1.95	9.23 *	(1.04,33.34)	.	.
#Fox J	1	0	0.00	0.13	0.00	(0.00,100.0)	1	0.00
#Gowda R	154	2	1.30	0.94	1.24	(0.14, 4.49)	132	0.81
##Kantrowitz N	277	4	1.44	1.32	0.98	(0.26, 2.52)	190	0.00
##Kesanakurthy S	3	0	0.00	0.89	0.00	(0.00,100.0)	3	0.00
#Rosero H	13	0	0.00	1.82	0.00	(0.00,13.95)	7	0.00
##Srivastava S	22	1	4.55	1.05	3.90	(0.05,21.71)	19	5.42
TOTAL	498	9	1.81	1.18	1.38	(0.63, 2.63)	369	0.74
University Hospital - SUNY Upstate								
#Battaglia J	4	0	0.00	0.74	0.00	(0.00,100.0)	3	0.00
##Ford T	101	2	1.98	1.62	1.10	(0.12, 3.98)	66	1.04
#George A	1	0	0.00	0.68	0.00	(0.00,100.0)	1	0.00
Kozman H	197	2	1.02	1.51	0.61	(0.07, 2.19)	108	0.72
Pratap T	185	2	1.08	0.96	1.01	(0.11, 3.65)	151	1.18
Siddiqui D	386	7	1.81	1.43	1.14	(0.46, 2.36)	295	0.45
TOTAL	874	13	1.49	1.36	0.98	(0.52, 1.68)	624	0.70
University Hospital - Stony Brook								
Chernilas J	406	7	1.72	1.71	0.91	(0.36, 1.87)	233	1.06
Dervan J	367	0	0.00	0.52	0.00	(0.00, 1.73)	357	0.00
#Grella R	56	0	0.00	0.53	0.00	(0.00,11.20)	52	0.00
Gruberg L	620	10	1.61	1.72	0.84	(0.40, 1.55)	399	0.39
Jeremias A	603	12	1.99	1.78	1.01	(0.52, 1.76)	367	0.94
Joseph S	119	0	0.00	0.62	0.00	(0.00, 4.45)	112	0.00
#Khan S	297	1	0.34	0.62	0.49	(0.01, 2.71)	292	0.35
Korlipara G	249	0	0.00	0.63	0.00	(0.00, 2.12)	233	0.00
Lawson W	578	18	3.11	1.79	1.57 *	(0.93, 2.48)	353	0.76
#Lederman S	232	1	0.43	0.81	0.48	(0.01, 2.66)	222	0.33
Mani A	611	12	1.96	1.70	1.04	(0.54, 1.82)	388	0.40
##Rosenband M	350	5	1.43	0.62	2.06	(0.66, 4.81)	333	1.47
#Weinstein J	652	5	0.77	0.85	0.81	(0.26, 1.89)	599	0.72
All Others	195	1	0.51	0.71	0.65	(0.01, 3.62)	178	0.52
TOTAL	5335	72	1.35	1.25	0.98	(0.76, 1.23)	4118	0.58

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Vassar Brothers Medical Center								
Gorwara S	432	1	0.23	1.00	0.21	(0.00, 1.16)	314	0.36
#Jafar M	669	2	0.30	0.99	0.27	(0.03, 0.99)	533	0.52
Kantaros L	287	3	1.05	0.79	1.20	(0.24, 3.50)	214	0.71
#Shah N	153	0	0.00	0.53	0.00	(0.00, 4.10)	143	0.00
Yen M	368	7	1.90	0.98	1.75	(0.70, 3.61)	273	0.96
All Others	107	0	0.00	0.59	0.00	(0.00, 5.28)	90	0.00
TOTAL	2016	13	0.64	0.90	0.64	(0.34, 1.10)	1567	0.51
Westchester Medical Center								
##Charney R	79	1	1.27	0.48	2.40	(0.03,13.35)	76	0.00
#Cohen M B	230	2	0.87	1.14	0.69	(0.08, 2.49)	169	0.58
#Cuomo L	247	1	0.40	1.16	0.31	(0.00, 1.74)	186	0.48
#Hadid A	166	0	0.00	0.44	0.00	(0.00, 4.57)	165	0.00
#Hadid A B	112	0	0.00	0.53	0.00	(0.00, 5.56)	101	0.00
Hjemdahl-Monsen C	654	7	1.07	1.09	0.88	(0.35, 1.82)	563	0.41
##Kalapatapu K	1046	9	0.86	1.16	0.67	(0.31, 1.27)	903	0.36
##Messinger D	51	0	0.00	0.57	0.00	(0.00,11.39)	50	0.00
Pucillo A	360	5	1.39	0.89	1.40	(0.45, 3.27)	316	1.28
##Shih A T	219	3	1.37	1.47	0.84	(0.17, 2.45)	200	0.00
Sorbera C	281	4	1.42	1.32	0.97	(0.26, 2.49)	209	0.42
All Others	52	2	3.85	1.83	1.89	(0.21, 6.84)	35	4.34
TOTAL	3497	34	0.97	1.08	0.81	(0.56, 1.13)	2973	0.44
White Plains Hospital Center								
#Apfelbaum M	27	1	3.70	2.27	1.47	(0.02, 8.17)	15	6.30
##Charney R	7	1	14.29	2.00	6.44	(0.08,35.81)	4	0.00
#Cohen M B	13	0	0.00	0.71	0.00	(0.00,35.61)	9	0.00
#Cuomo L	6	0	0.00	0.37	0.00	(0.00,100.0)	6	0.00
##Grose R	46	2	4.35	1.52	2.58	(0.29, 9.31)	35	0.00
##Johnson M	1	0	0.00	0.80	0.00	(0.00,100.0)	.	.
##Kalapatapu K	14	0	0.00	0.69	0.00	(0.00,34.34)	12	0.00
#Kodali S	6	0	0.00	1.57	0.00	(0.00,35.18)	2	0.00
##Messinger D	2	0	0.00	0.75	0.00	(0.00,100.0)	1	0.00
##Sherman W	1	0	0.00	0.30	0.00	(0.00,100.0)	1	0.00
All Others	7	0	0.00	1.09	0.00	(0.00,43.19)	4	0.00
TOTAL	130	4	3.08	1.43	1.94	(0.52, 4.96)	89	1.47
Winthrop University Hospital								
#Angelopoulos P	125	1	0.80	1.26	0.57	(0.01, 3.19)	89	0.00
#Blumenthal S	67	0	0.00	0.33	0.00	(0.00,15.11)	65	0.00
##Caselnova R	333	4	1.20	1.05	1.03	(0.28, 2.64)	306	0.85
##Deutsch E	4	0	0.00	0.64	0.00	(0.00,100.0)	4	0.00
Donohue D	220	5	2.27	1.17	1.75	(0.56, 4.09)	189	1.13
##Gambino A	571	4	0.70	0.55	1.14	(0.31, 2.93)	525	0.80
##Hormozi S	40	0	0.00	0.63	0.00	(0.00,13.15)	39	0.00
Marzo K	313	1	0.32	0.50	0.58	(0.01, 3.21)	274	0.56
##Musso J	2	0	0.00	0.16	0.00	(0.00,100.0)	2	0.00
Naidu S	440	7	1.59	1.42	1.01	(0.40, 2.08)	369	0.61
##Sassower M	69	0	0.00	1.29	0.00	(0.00, 3.71)	64	0.00
##Schwartz R	968	4	0.41	0.74	0.50	(0.14, 1.29)	888	0.24

Table 3 *continued*

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Winthrop University Hospital, <i>continued</i>								
#Witkes D	174	0	0.00	0.71	0.00	(0.00, 2.68)	167	0.00
All Others	27	0	0.00	0.44	0.00	(0.00,27.53)	23	0.00
TOTAL	3353	26	0.78	0.85	0.82	(0.54, 1.20)	3004	0.52
Statewide Total	162918	1468	0.90				141300	0.55

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

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

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

Performed procedures in another NYS hospital.

Performed procedures in two or more other NYS hospitals.

Table 4 Summary Information for Cardiologist Practicing at More Than One Hospital, 2008-2010

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Aboufares A	207	0	0.00	0.62	0.00	(0.00, 2.58)	201	0.00
Lenox Hill Hospital	195	0	0.00	0.63	0.00	(0.00, 2.69)	189	0.00
NYP- Weill Cornell	12	0	0.00	0.43	0.00	(0.00,63.42)	12	0.00
Afflu E	52	0	0.00	0.33	0.00	(0.00,18.98)	52	0.00
Brookdale Hosp Med Ctr	2	0	0.00	0.12	0.00	(0.00,100.0)	2	0.00
NY Methodist Hospital	24	0	0.00	0.27	0.00	(0.00,51.06)	24	0.00
Univ. Hosp-Brooklyn	26	0	0.00	0.41	0.00	(0.00,30.90)	26	0.00
Agarwal A	71	5	7.04	1.23	5.14 *	(1.66,12.00)	48	3.30
Good Sam - Suffern	64	4	6.25	1.35	4.16 *	(1.12,10.65)	41	1.68
Orange Regional Med Ctr	7	1	14.29	0.14	94.21 *	(1.23,100.0)	7	85.80 *
Angelopoulos P	127	1	0.79	1.24	0.57	(0.01, 3.19)	91	0.00
North Shore Univ Hosp	2	0	0.00	0.11	0.00	(0.00,100.0)	2	0.00
Winthrop Univ. Hosp	125	1	0.80	1.26	0.57	(0.01, 3.19)	89	0.00
Apfelbaum M	118	1	0.85	1.03	0.74	(0.01, 4.13)	95	1.23
NYP- Columbia Presby.	91	0	0.00	0.66	0.00	(0.00, 5.51)	80	0.00
White Plains Hospital	27	1	3.70	2.27	1.47	(0.02, 8.17)	15	6.30
Arkonac B	584	10	1.71	1.38	1.12	(0.54, 2.06)	463	0.90
Long Island Jewish	458	6	1.31	1.09	1.08	(0.39, 2.35)	380	0.80
North Shore Univ Hosp	38	2	5.26	5.07	0.94	(0.11, 3.38)	4	0.00
St. Francis Hospital	88	2	2.27	1.26	1.62	(0.18, 5.86)	79	1.26
Aslam A¹	552	1	0.18	0.24	0.69	(0.01, 3.85)	548	0.48
Beth Israel Med Ctr	416	0	0.00	0.23	0.00	(0.00, 3.41)	415	0.00
NY Methodist Hospital	117	1	0.85	0.24	3.19	(0.04,17.77)	115	2.19
SVMC- St. Vincents	1	0	0.00	0.07	0.00	(0.00,100.0)	1	0.00
Univ. Brooklyn @ LICH	18	0	0.00	0.28	0.00	(0.00,65.79)	17	0.00
Attubato M	1241	11	0.89	0.84	0.95	(0.47, 1.70)	1169	0.39
Bellevue Hospital Ctr	207	5	2.42	1.38	1.57	(0.51, 3.67)	181	0.92
NYU Hospitals Center	1034	6	0.58	0.73	0.72	(0.26, 1.56)	988	0.29
Babaev A	545	1	0.18	0.60	0.28	(0.00, 1.53)	526	0.00
Bellevue Hospital Ctr	14	1	7.14	7.32	0.88	(0.01, 4.89)	3	0.00
NYU Hospitals Center	531	0	0.00	0.42	0.00	(0.00, 1.47)	523	0.00
Badero O	181	0	0.00	0.30	0.00	(0.00, 6.06)	181	0.00
NY Methodist Hospital	158	0	0.00	0.29	0.00	(0.00, 7.12)	158	0.00
Univ. Hosp-Brooklyn	23	0	0.00	0.35	0.00	(0.00,40.76)	23	0.00
Bagga R	327	1	0.31	1.01	0.27	(0.00, 1.52)	250	0.47
Huntington Hospital	86	0	0.00	2.39	0.00	(0.00, 1.61)	14	0.00
Long Island Jewish	221	1	0.45	0.52	0.78	(0.01, 4.34)	217	0.56
North Shore Univ Hosp	20	0	0.00	0.47	0.00	(0.00,35.04)	19	0.00
Barman N	389	4	1.03	2.06	0.45	(0.12, 1.15)	302	0.18
Elmhurst Hospital Ctr	50	2	4.00	3.95	0.91	(0.10, 3.29)	9	0.00
Mount Sinai Hospital	339	2	0.59	1.78	0.30	(0.03, 1.08)	293	0.18

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Battaglia J	722	7	0.97	0.79	1.10	(0.44, 2.27)	619	1.07
Crouse Hospital	718	7	0.97	0.79	1.11	(0.44, 2.28)	616	1.08
Univ. Hosp-Upstate	4	0	0.00	0.74	0.00	(0.00,100.0)	3	0.00
Berke A	359	2	0.56	1.57	0.32	(0.04, 1.15)	323	0.33
South Nassau Com. Hosp	9	0	0.00	5.27	0.00	(0.00, 6.97)	.	.
St. Francis Hospital	350	2	0.57	1.48	0.35	(0.04, 1.26)	323	0.33
Bhambhani G¹	742	1	0.13	0.25	0.49	(0.01, 2.73)	740	0.00
Beth Israel Med Ctr	187	0	0.00	0.20	0.00	(0.00, 8.78)	187	0.00
NY Methodist Hospital	123	0	0.00	0.19	0.00	(0.00,13.84)	123	0.00
SVMC- St. Vincents	364	1	0.27	0.20	1.24	(0.02, 6.87)	363	0.00
Univ. Hosp-Brooklyn	68	0	0.00	0.73	0.00	(0.00, 6.69)	67	0.00
Blumenthal S	97	0	0.00	0.29	0.00	(0.00,11.87)	94	0.00
North Shore Univ Hosp	30	0	0.00	0.20	0.00	(0.00,55.32)	29	0.00
Winthrop Univ. Hosp	67	0	0.00	0.33	0.00	(0.00,15.11)	65	0.00
Boutis L	606	5	0.83	1.77	0.42	(0.14, 0.98)	410	0.53
Long Island Jewish	31	2	6.45	4.74	1.23	(0.14, 4.43)	5	0.00
North Shore Univ Hosp	575	3	0.52	1.61	0.29 **	(0.06, 0.85)	405	0.53
Brady S	560	1	0.18	0.60	0.27	(0.00, 1.49)	470	0.00
Albany Medical Center	484	1	0.21	0.60	0.31	(0.00, 1.74)	407	0.00
St. Peters Hospital	76	0	0.00	0.63	0.00	(0.00, 6.93)	63	0.00
Calandra S	442	2	0.45	0.89	0.46	(0.05, 1.65)	348	0.00
Mercy Hospital	397	2	0.50	0.95	0.48	(0.05, 1.73)	305	0.00
Millard Fillmore Hosp	45	0	0.00	0.42	0.00	(0.00,17.53)	43	0.00
Caselnova R	953	10	1.05	0.82	1.15	(0.55, 2.12)	845	0.71
Good Sam - West Islip	459	5	1.09	0.58	1.70	(0.55, 3.98)	409	0.43
Huntington Hospital	8	0	0.00	1.03	0.00	(0.00,40.08)	1	0.00
North Shore Univ Hosp	114	1	0.88	0.54	1.47	(0.02, 8.16)	114	0.94
Southside Hospital	39	0	0.00	2.52	0.00	(0.00, 3.36)	15	0.00
Winthrop Univ. Hosp	333	4	1.20	1.05	1.03	(0.28, 2.64)	306	0.85
Castillo R	408	11	2.70	1.23	1.98 *	(0.99, 3.54)	296	0.93
Brookdale Hosp Med Ctr	215	9	4.19	1.59	2.37 *	(1.08, 4.50)	129	1.12
Univ. Hosp-Brooklyn	193	2	1.04	0.82	1.14	(0.13, 4.11)	167	0.62
Celaj S	323	6	1.86	0.90	1.85	(0.68, 4.03)	248	0.48
Bronx-Lebanon-Cncourse	10	1	10.00	2.27	3.98	(0.05,22.13)	.	.
Montefiore - Moses	311	4	1.29	0.84	1.38	(0.37, 3.54)	248	0.48
Orange Regional Med Ctr	2	1	50.00	4.45	10.12	(0.13,56.30)	.	.
Chadow H	428	14	3.27	1.27	2.32 *	(1.27, 3.89)	329	1.29
Brookdale Hosp Med Ctr	255	10	3.92	1.58	2.23 *	(1.07, 4.10)	179	1.03
Univ. Hosp-Brooklyn	173	4	2.31	0.81	2.57	(0.69, 6.58)	150	1.73
Chang J	223	4	1.79	0.87	1.86	(0.50, 4.77)	194	1.72
Lenox Hill Hospital	3	0	0.00	0.14	0.00	(0.00,100.0)	3	0.00
NY Hospital - Queens	205	4	1.95	0.93	1.90	(0.51, 4.86)	176	1.78
St. Francis Hospital	15	0	0.00	0.20	0.00	(0.00,100.0)	15	0.00

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Charney R	398	3	0.75	0.67	1.01	(0.20, 2.94)	388	0.22
NYP- Weill Cornell	312	1	0.32	0.70	0.42	(0.01, 2.31)	308	0.25
Westchester Med Ctr	79	1	1.27	0.48	2.40	(0.03,13.35)	76	0.00
White Plains Hospital	7	1	14.29	2.00	6.44	(0.08,35.81)	4	0.00
Chaudhry E	112	4	3.57	1.04	3.10	(0.83, 7.93)	79	1.90
Buffalo General Hosp	16	0	0.00	1.03	0.00	(0.00,20.03)	14	0.00
Erie County Med Ctr	80	3	3.75	0.93	3.64	(0.73,10.63)	54	0.00
Mercy Hospital	16	1	6.25	1.60	3.53	(0.05,19.62)	11	9.35
Chockalingam S	317	6	1.89	0.91	1.87	(0.68, 4.06)	280	1.30
Rochester General Hosp	308	6	1.95	0.93	1.89	(0.69, 4.12)	272	1.31
Strong Memorial Hosp	1	0	0.00	0.39	0.00	(0.00,100.0)	1	0.00
Unity Hospital	8	0	0.00	0.46	0.00	(0.00,90.24)	7	0.00
Chokshi A	309	1	0.32	0.38	0.76	(0.01, 4.22)	308	0.46
NY Methodist Hospital	274	1	0.36	0.38	0.86	(0.01, 4.80)	274	0.50
SVMC- St. Vincents	35	0	0.00	0.41	0.00	(0.00,22.96)	34	0.00
Cohen M B	243	2	0.82	1.11	0.67	(0.07, 2.41)	178	0.55
Westchester Med Ctr	230	2	0.87	1.14	0.69	(0.08, 2.49)	169	0.58
White Plains Hospital	13	0	0.00	0.71	0.00	(0.00,35.61)	9	0.00
Conley J	1332	9	0.68	0.61	1.00	(0.46, 1.90)	1283	0.60
Buffalo General Hosp	1329	9	0.68	0.61	1.01	(0.46, 1.91)	1283	0.60
Millard Fillmore Hosp	3	0	0.00	2.06	0.00	(0.00,53.57)	.	.
Corbelli J	1003	9	0.90	0.85	0.95	(0.43, 1.81)	901	0.51
Buffalo General Hosp	5	0	0.00	3.07	0.00	(0.00,21.52)	.	.
Millard Fillmore Hosp	998	9	0.90	0.84	0.97	(0.44, 1.84)	901	0.51
Coven D	210	4	1.90	1.11	1.54	(0.41, 3.94)	148	0.00
St. Lukes at St. Lukes	200	2	1.00	1.07	0.84	(0.09, 3.03)	148	0.00
Univ. Brooklyn @ LICH	10	2	20.00	1.95	9.23 *	(1.04,33.34)	.	.
Cuomo L	253	1	0.40	1.15	0.31	(0.00, 1.73)	192	0.47
Westchester Med Ctr	247	1	0.40	1.16	0.31	(0.00, 1.74)	186	0.48
White Plains Hospital	6	0	0.00	0.37	0.00	(0.00,100.0)	6	0.00
Dangas G	446	2	0.45	1.29	0.31	(0.04, 1.13)	401	0.34
Mount Sinai Hospital	39	0	0.00	1.65	0.00	(0.00, 5.15)	37	0.00
NYP- Columbia Presby.	407	2	0.49	1.26	0.35	(0.04, 1.27)	364	0.40
Delago A	1315	9	0.68	0.50	1.24	(0.57, 2.35)	1207	0.96
Albany Medical Center	1284	9	0.70	0.46	1.37	(0.63, 2.60)	1190	0.99
Glens Falls Hospital	1	0	0.00	1.07	0.00	(0.00,100.0)	.	.
St. Peters Hospital	30	0	0.00	2.05	0.00	(0.00, 5.39)	17	0.00

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Deutsch E	732	7	0.96	0.59	1.46	(0.59, 3.01)	664	1.14
Good Sam - West Islip	95	2	2.11	1.27	1.49	(0.17, 5.38)	72	1.75
Long Island Jewish	3	0	0.00	0.61	0.00	(0.00,100.0)	3	0.00
North Shore Univ Hosp	58	2	3.45	0.57	5.41	(0.61,19.53)	58	3.12
Southside Hospital	509	3	0.59	0.45	1.17	(0.23, 3.41)	477	0.70
St. Catherine of Siena	61	0	0.00	0.67	0.00	(0.00, 8.09)	48	0.00
St. Francis Hospital	2	0	0.00	0.21	0.00	(0.00,100.0)	2	0.00
Winthrop Univ. Hosp	4	0	0.00	0.64	0.00	(0.00,100.0)	4	0.00
Dhama B	487	1	0.21	0.63	0.29	(0.00, 1.64)	471	0.18
Long Island Jewish	315	1	0.32	0.64	0.45	(0.01, 2.49)	306	0.28
North Shore Univ Hosp	172	0	0.00	0.61	0.00	(0.00, 3.17)	165	0.00
Doling M	780	14	1.79	0.80	2.01 *	(1.10, 3.37)	633	1.25
Rochester General Hosp	3	0	0.00	0.33	0.00	(0.00,100.0)	3	0.00
Strong Memorial Hosp	730	13	1.78	0.84	1.92 *	(1.02, 3.28)	585	1.09
Unity Hospital	47	1	2.13	0.36	5.40	(0.07,30.04)	45	5.02
Dominguez-Echevarria A¹	503	1	0.20	0.50	0.36	(0.00, 1.99)	501	0.22
Lenox Hill Hospital	282	1	0.35	0.52	0.62	(0.01, 3.45)	281	0.37
Lutheran Medical Ctr	29	0	0.00	0.67	0.00	(0.00,16.90)	28	0.00
NY Methodist Hospital	66	0	0.00	0.43	0.00	(0.00,11.65)	66	0.00
NYP- Columbia Presby.	105	0	0.00	0.50	0.00	(0.00, 6.24)	105	0.00
SVMC- St. Vincents	21	0	0.00	0.25	0.00	(0.00,62.63)	21	0.00
El-Khally Z	1054	12	1.14	1.06	0.97	(0.50, 1.69)	928	0.62
Crouse Hospital	109	1	0.92	1.18	0.70	(0.01, 3.90)	92	2.19
St. Josephs Hospital	945	11	1.16	1.05	1.00	(0.50, 1.79)	836	0.54
Emerson R	286	5	1.75	1.56	1.01	(0.33, 2.35)	173	0.43
Mercy Hospital	285	5	1.75	1.57	1.01	(0.33, 2.36)	172	0.43
Millard Fillmore Hosp	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
Esper D	542	5	0.92	0.93	0.90	(0.29, 2.09)	466	0.25
Albany Medical Center	174	2	1.15	0.96	1.08	(0.12, 3.91)	132	0.00
St. Peters Hospital	368	3	0.82	0.91	0.81	(0.16, 2.36)	334	0.32
Farhi E	766	6	0.78	0.80	0.88	(0.32, 1.92)	678	0.58
Buffalo General Hosp	761	6	0.79	0.80	0.89	(0.33, 1.94)	678	0.58
Millard Fillmore Hosp	5	0	0.00	1.51	0.00	(0.00,43.84)	.	.
Feit F	878	3	0.34	0.58	0.53	(0.11, 1.54)	801	0.00
Bellevue Hospital Ctr	230	1	0.43	0.72	0.54	(0.01, 3.01)	204	0.00
NYU Hospitals Center	648	2	0.31	0.53	0.52	(0.06, 1.88)	597	0.00
Fernaine G	823	4	0.49	0.68	0.65	(0.17, 1.65)	773	0.15
Lenox Hill Hospital	279	1	0.36	0.54	0.59	(0.01, 3.30)	274	0.00
Lutheran Medical Ctr	249	3	1.20	1.00	1.08	(0.22, 3.17)	204	0.67
Mount Sinai Hospital	295	0	0.00	0.53	0.00	(0.00, 2.11)	295	0.00
Ford T	177	3	1.69	1.37	1.11	(0.22, 3.25)	124	1.41
Crouse Hospital	40	1	2.50	1.31	1.72	(0.02, 9.59)	28	4.25
St. Josephs Hospital	36	0	0.00	0.76	0.00	(0.00,12.05)	30	0.00
Univ. Hosp-Upstate	101	2	1.98	1.62	1.10	(0.12, 3.98)	66	1.04

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Fox J	1649	10	0.61	0.91	0.60	(0.29, 1.11)	1542	0.31
Beth Israel Med Ctr	1648	10	0.61	0.91	0.60	(0.29, 1.11)	1541	0.31
Univ. Brooklyn @ LICH	1	0	0.00	0.13	0.00	(0.00,100.0)	1	0.00
Freeman J	835	13	1.56	1.28	1.10	(0.59, 1.88)	632	1.01
North Shore Univ Hosp	13	0	0.00	1.27	0.00	(0.00,20.07)	12	0.00
South Nassau Com. Hosp	822	13	1.58	1.28	1.12	(0.59, 1.91)	620	1.05
Friedman G H	522	3	0.57	0.72	0.72	(0.15, 2.11)	475	0.24
Long Island Jewish	250	0	0.00	0.53	0.00	(0.00, 2.48)	238	0.00
NY Hospital - Queens	56	1	1.79	1.47	1.09	(0.01, 6.07)	42	0.00
North Shore Univ Hosp	134	1	0.75	0.66	1.02	(0.01, 5.69)	125	0.00
St. Francis Hospital	82	1	1.22	0.84	1.30	(0.02, 7.24)	70	1.08
Gambino A	628	4	0.64	0.53	1.08	(0.29, 2.76)	581	0.74
North Shore Univ Hosp	47	0	0.00	0.36	0.00	(0.00,19.27)	46	0.00
St. Francis Hospital	10	0	0.00	0.17	0.00	(0.00,100.0)	10	0.00
Winthrop Univ. Hosp	571	4	0.70	0.55	1.14	(0.31, 2.93)	525	0.80
Garratt K	619	4	0.65	0.66	0.89	(0.24, 2.27)	573	0.38
Jamaica Hosp Med Ctr	2	0	0.00	1.49	0.00	(0.00,100.0)	.	.
Lenox Hill Hospital	617	4	0.65	0.66	0.89	(0.24, 2.28)	573	0.38
Geizhals M	217	4	1.84	1.15	1.44	(0.39, 3.69)	179	0.00
Lenox Hill Hospital	8	0	0.00	0.26	0.00	(0.00,100.0)	8	0.00
NY Hospital - Queens	200	4	2.00	1.23	1.47	(0.39, 3.76)	162	0.00
NYP- Weill Cornell	9	0	0.00	0.28	0.00	(0.00,100.0)	9	0.00
Gelormini J	572	11	1.92	1.11	1.57	(0.78, 2.81)	459	1.27
Mercy Hospital	450	11	2.44	1.27	1.73	(0.86, 3.10)	344	1.53 *
Millard Fillmore Hosp	122	0	0.00	0.49	0.00	(0.00, 5.50)	115	0.00
George A	346	8	2.31	0.90	2.31 *	(1.00, 4.56)	280	1.16
Crouse Hospital	345	8	2.32	0.90	2.32 *	(1.00, 4.57)	279	1.17
Univ. Hosp-Upstate	1	0	0.00	0.68	0.00	(0.00,100.0)	1	0.00
Giambartolomei A	339	6	1.77	1.33	1.20	(0.44, 2.60)	247	0.79
Champ.Valley Phys Hosp	7	0	0.00	0.97	0.00	(0.00,48.61)	6	0.00
St. Josephs Hospital	332	6	1.81	1.34	1.21	(0.44, 2.64)	241	0.80
Goldman A Y	198	3	1.52	0.58	2.34	(0.47, 6.85)	176	0.87
Bronx-Lebanon-Cncourse	20	2	10.00	2.59	3.47	(0.39,12.54)	.	.
Montefiore - Moses	140	1	0.71	0.39	1.65	(0.02, 9.18)	138	1.02
St. Lukes at St. Lukes	38	0	0.00	0.23	0.00	(0.00,37.57)	38	0.00
Gotsis W	867	15	1.73	0.81	1.93 *	(1.08, 3.18)	689	1.23
Montefiore - Weiler	586	10	1.71	0.59	2.62 *	(1.26, 4.83)	528	1.61 *
Orange Regional Med Ctr	281	5	1.78	1.28	1.26	(0.40, 2.93)	161	0.00
Gowda R	1257	12	0.95	0.78	1.11	(0.57, 1.94)	1150	0.64
Beth Israel Med Ctr	1103	10	0.91	0.75	1.08	(0.52, 2.00)	1018	0.62
Univ. Brooklyn @ LICH	154	2	1.30	0.94	1.24	(0.14, 4.49)	132	0.81

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Green S	534	4	0.75	1.24	0.54	(0.15, 1.39)	418	0.51
Long Island Jewish	24	0	0.00	2.18	0.00	(0.00, 6.31)	4	0.00
North Shore Univ Hosp	510	4	0.78	1.20	0.59	(0.16, 1.51)	414	0.52
Grella R	512	7	1.37	0.91	1.35	(0.54, 2.79)	398	1.54
Arnot Ogden Med Ctr	456	7	1.54	0.96	1.44	(0.58, 2.97)	346	1.80 *
Univ. Hosp-Stony Brook	56	0	0.00	0.53	0.00	(0.00,11.20)	52	0.00
Grose R	364	3	0.82	0.73	1.02	(0.21, 2.98)	337	0.00
Montefiore - Moses	51	0	0.00	0.70	0.00	(0.00, 9.26)	44	0.00
NYP- Columbia Presby.	267	1	0.37	0.60	0.57	(0.01, 3.15)	258	0.00
White Plains Hospital	46	2	4.35	1.52	2.58	(0.29, 9.31)	35	0.00
Grunwald A	478	1	0.21	0.66	0.28	(0.00, 1.58)	436	0.25
Long Island Jewish	245	0	0.00	0.71	0.00	(0.00, 1.91)	236	0.00
NY Hospital - Queens	66	0	0.00	0.91	0.00	(0.00, 5.48)	47	0.00
North Shore Univ Hosp	116	1	0.86	0.47	1.64	(0.02, 9.12)	110	1.28
St. Francis Hospital	51	0	0.00	0.57	0.00	(0.00,11.38)	43	0.00
Gupta R¹	164	0	0.00	0.90	0.00	(0.00, 2.23)	157	0.00
Long Island Jewish	78	0	0.00	0.97	0.00	(0.00, 4.36)	76	0.00
NY Hospital - Queens	45	0	0.00	1.09	0.00	(0.00, 6.74)	44	0.00
SVMC- St. Vincents	41	0	0.00	0.58	0.00	(0.00,14.00)	37	0.00
Gustafson G	521	7	1.34	0.80	1.51	(0.61, 3.11)	482	0.96
Lenox Hill Hospital	44	0	0.00	0.51	0.00	(0.00,14.63)	44	0.00
NY Hospital - Queens	467	7	1.50	0.84	1.61	(0.65, 3.33)	428	1.06
North Shore Univ Hosp	10	0	0.00	0.42	0.00	(0.00,78.29)	10	0.00
Hadid A	281	3	1.07	0.82	1.17	(0.24, 3.42)	255	0.39
St. Lukes Crnwll-Newbrg	115	3	2.61	1.38	1.70	(0.34, 4.98)	90	0.79
Westchester Med Ctr	166	0	0.00	0.44	0.00	(0.00, 4.57)	165	0.00
Hadid A B	204	0	0.00	1.07	0.00	(0.00, 1.51)	168	0.00
St. Lukes Crnwll-Newbrg	92	0	0.00	1.73	0.00	(0.00, 2.08)	67	0.00
Westchester Med Ctr	112	0	0.00	0.53	0.00	(0.00, 5.56)	101	0.00
Haq N	376	2	0.53	0.86	0.56	(0.06, 2.01)	292	0.36
Buffalo General Hosp	8	0	0.00	3.48	0.00	(0.00,11.88)	.	.
Mercy Hospital	280	2	0.71	0.78	0.83	(0.09, 3.00)	230	0.42
Millard Fillmore Hosp	88	0	0.00	0.89	0.00	(0.00, 4.24)	62	0.00
Hasan C¹	350	0	0.00	0.30	0.00	(0.00, 3.16)	350	0.00
Mount Sinai Hospital	307	0	0.00	0.29	0.00	(0.00, 3.75)	307	0.00
SVMC- St. Vincents	43	0	0.00	0.39	0.00	(0.00,19.96)	43	0.00
Hegde S	143	1	0.70	0.93	0.68	(0.01, 3.77)	117	0.00
Bellevue Hospital Ctr	116	0	0.00	0.55	0.00	(0.00, 5.19)	114	0.00
Univ. Hosp-Brooklyn	27	1	3.70	2.57	1.30	(0.02, 7.22)	3	0.00

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Hormozi S	798	4	0.50	0.78	0.58	(0.16, 1.49)	662	0.24
Good Sam - West Islip	383	3	0.78	0.69	1.02	(0.20, 2.97)	329	0.00
North Shore Univ Hosp	150	1	0.67	0.61	0.98	(0.01, 5.48)	146	0.72
South Nassau Com. Hosp	10	0	0.00	2.33	0.00	(0.00,14.16)	4	0.00
Southside Hospital	162	0	0.00	0.98	0.00	(0.00, 2.09)	118	0.00
St. Catherine of Siena	53	0	0.00	1.06	0.00	(0.00, 5.91)	26	0.00
Winthrop Univ. Hosp	40	0	0.00	0.63	0.00	(0.00,13.15)	39	0.00
Hoyek W	569	3	0.53	0.63	0.76	(0.15, 2.21)	520	0.27
Lutheran Medical Ctr	30	1	3.33	1.52	1.98	(0.03,11.01)	18	0.00
NY Methodist Hospital	345	0	0.00	0.39	0.00	(0.00, 2.43)	343	0.00
Staten Island Univ Hosp	194	2	1.03	0.90	1.03	(0.12, 3.71)	159	0.87
Iqbal S	206	2	0.97	1.00	0.88	(0.10, 3.17)	168	0.00
Bellevue Hospital Ctr	190	2	1.05	0.98	0.97	(0.11, 3.49)	159	0.00
NYU Hospitals Center	16	0	0.00	1.18	0.00	(0.00,17.57)	9	0.00
Jafar M	674	2	0.30	0.99	0.27	(0.03, 0.98)	536	0.52
St. Lukes Crnwill-Newbrg	5	0	0.00	0.99	0.00	(0.00,67.11)	3	0.00
Vassar Bros. Med Ctr	669	2	0.30	0.99	0.27	(0.03, 0.99)	533	0.52
Jain S	568	13	2.29	1.59	1.30	(0.69, 2.22)	420	1.28
Jamaica Hosp Med Ctr	149	7	4.70	3.95	1.07	(0.43, 2.21)	17	0.00
Lenox Hill Hospital	419	6	1.43	0.75	1.71	(0.63, 3.73)	403	1.32
Jasty B	195	2	1.03	0.44	2.11	(0.24, 7.62)	193	1.18
NY Methodist Hospital	53	0	0.00	0.76	0.00	(0.00, 8.17)	52	0.00
Univ. Hosp-Brooklyn	142	2	1.41	0.32	4.01	(0.45,14.49)	141	2.33
Jauhar R	1497	9	0.60	0.68	0.79	(0.36, 1.50)	1313	0.53
Huntington Hospital	1	0	0.00	1.79	0.00	(0.00,100.0)	.	.
Long Island Jewish	1467	9	0.61	0.66	0.84	(0.38, 1.60)	1311	0.53
North Shore Univ Hosp	29	0	0.00	2.10	0.00	(0.00, 5.42)	2	0.00
Jayasundera T	501	1	0.20	0.32	0.56	(0.01, 3.14)	497	0.45
Lenox Hill Hospital	91	0	0.00	0.30	0.00	(0.00,12.27)	91	0.00
Mount Sinai Hospital	23	1	4.35	0.80	4.88	(0.06,27.15)	22	3.55
NYU Hospitals Center	384	0	0.00	0.25	0.00	(0.00, 3.40)	384	0.00
Univ. Hosp-Brooklyn	3	0	0.00	5.67	0.00	(0.00,19.43)	.	.
John S	250	4	1.60	0.58	2.49	(0.67, 6.38)	248	1.52
NY Methodist Hospital	15	0	0.00	0.45	0.00	(0.00,48.88)	15	0.00
Univ. Hosp-Brooklyn	235	4	1.70	0.59	2.62	(0.70, 6.70)	233	1.59
Johnson M	347	3	0.86	0.68	1.15	(0.23, 3.37)	299	0.48
Bronx-Lebanon-Cncourse	11	1	9.09	2.64	3.10	(0.04,17.27)	2	0.00
Montefiore - Moses	188	1	0.53	0.76	0.63	(0.01, 3.52)	153	0.00
NYP- Columbia Presby.	147	1	0.68	0.42	1.44	(0.02, 8.03)	144	0.86
White Plains Hospital	1	0	0.00	0.80	0.00	(0.00,100.0)	.	.
Kalapatapu K	1153	10	0.87	1.09	0.71	(0.34, 1.31)	1005	0.42
Orange Regional Med Ctr	93	1	1.08	0.43	2.28	(0.03,12.67)	90	1.45
Westchester Med Ctr	1046	9	0.86	1.16	0.67	(0.31, 1.27)	903	0.36
White Plains Hospital	14	0	0.00	0.69	0.00	(0.00,34.34)	12	0.00

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Kamran M	1018	5	0.49	0.86	0.51	(0.16, 1.19)	774	0.55
Elmhurst Hospital Ctr	936	4	0.43	0.91	0.42	(0.11, 1.08)	692	0.40
Mount Sinai Hospital	82	1	1.22	0.35	3.18	(0.04,17.69)	82	2.02
Kantrowitz N	333	5	1.50	1.33	1.02	(0.33, 2.37)	245	0.00
Beth Israel Med Ctr	24	1	4.17	1.42	2.64	(0.03,14.70)	23	0.00
Maimonides Medical Ctr	32	0	0.00	1.34	0.00	(0.00, 7.74)	32	0.00
Univ. Brooklyn @ LICH	277	4	1.44	1.32	0.98	(0.26, 2.52)	190	0.00
Kaplan B	1646	7	0.43	0.82	0.47	(0.19, 0.97)	1450	0.22
Long Island Jewish	1608	6	0.37	0.76	0.44	(0.16, 0.96)	1448	0.22
North Shore Univ Hosp	38	1	2.63	3.12	0.76	(0.01, 4.24)	2	0.00
Katz S	523	4	0.76	1.01	0.68	(0.18, 1.75)	423	0.00
Long Island Jewish	22	0	0.00	1.80	0.00	(0.00, 8.33)	7	0.00
North Shore Univ Hosp	494	4	0.81	0.99	0.74	(0.20, 1.89)	409	0.00
Southside Hospital	7	0	0.00	0.13	0.00	(0.00,100.0)	7	0.00
Kelberman M	527	4	0.76	0.75	0.91	(0.25, 2.34)	471	0.61
Faxton - St. Lukes	12	1	8.33	1.87	4.01	(0.05,22.31)	7	0.00
St. Elizabeth Med Ctr	515	3	0.58	0.72	0.73	(0.15, 2.13)	464	0.64
Keller N	31	1	3.23	3.46	0.84	(0.01, 4.67)	6	0.00
Bellevue Hospital Ctr	20	0	0.00	2.55	0.00	(0.00, 6.48)	6	0.00
NYU Hospitals Center	11	1	9.09	5.11	1.60	(0.02, 8.91)	.	.
Kesanakurthy S	1455	12	0.82	0.59	1.26	(0.65, 2.19)	1434	0.84
Lenox Hill Hospital	363	1	0.28	0.36	0.68	(0.01, 3.80)	356	0.46
Mount Sinai Hospital	57	0	0.00	0.21	0.00	(0.00,27.00)	57	0.00
NY Methodist Hospital	1	0	0.00	0.19	0.00	(0.00,100.0)	1	0.00
NYP- Columbia Presby.	875	10	1.14	0.73	1.40	(0.67, 2.58)	861	0.94
NYP- Weill Cornell	156	1	0.64	0.46	1.26	(0.02, 7.01)	156	0.85
Univ. Brooklyn @ LICH	3	0	0.00	0.89	0.00	(0.00,100.0)	3	0.00
Khan S	321	1	0.31	0.68	0.41	(0.01, 2.30)	306	0.34
St. Catherine of Siena	24	0	0.00	1.36	0.00	(0.00,10.12)	14	0.00
Univ. Hosp-Stony Brook	297	1	0.34	0.62	0.49	(0.01, 2.71)	292	0.35
Kim B	167	0	0.00	0.25	0.00	(0.00, 7.83)	167	0.00
Beth Israel Med Ctr	9	0	0.00	0.25	0.00	(0.00,100.0)	9	0.00
Lenox Hill Hospital	35	0	0.00	0.33	0.00	(0.00,28.29)	35	0.00
Long Island Jewish	97	0	0.00	0.23	0.00	(0.00,15.14)	97	0.00
NY Hospital - Queens	8	0	0.00	0.11	0.00	(0.00,100.0)	8	0.00
North Shore Univ Hosp	18	0	0.00	0.31	0.00	(0.00,59.69)	18	0.00
Kim M	1874	14	0.75	0.98	0.68	(0.37, 1.15)	1774	0.32
Elmhurst Hospital Ctr	41	1	2.44	2.67	0.82	(0.01, 4.58)	7	0.00
Mount Sinai Hospital	1833	13	0.71	0.95	0.68	(0.36, 1.16)	1767	0.32
Kodali S	481	8	1.66	0.91	1.65	(0.71, 3.24)	438	1.28
NYP- Columbia Presby.	475	8	1.68	0.90	1.68	(0.72, 3.31)	436	1.28
White Plains Hospital	6	0	0.00	1.57	0.00	(0.00,35.18)	2	0.00

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Kokolis S	26	0	0.00	0.28	0.00	(0.00,45.04)	26	0.00
NY Methodist Hospital	4	0	0.00	0.22	0.00	(0.00,100.0)	4	0.00
NYU Hospitals Center	13	0	0.00	0.22	0.00	(0.00,100.0)	13	0.00
Univ. Hosp-Brooklyn	9	0	0.00	0.41	0.00	(0.00,90.67)	9	0.00
Koss J	462	4	0.87	0.96	0.82	(0.22, 2.09)	409	0.28
Long Island Jewish	273	2	0.73	0.67	0.98	(0.11, 3.53)	258	0.45
NY Hospital - Queens	39	1	2.56	1.48	1.56	(0.02, 8.66)	24	0.00
North Shore Univ Hosp	106	0	0.00	0.76	0.00	(0.00, 4.09)	92	0.00
St. Francis Hospital	44	1	2.27	2.70	0.76	(0.01, 4.22)	35	0.00
Kufs W	185	1	0.54	0.52	0.94	(0.01, 5.24)	174	0.66
Ellis Hospital	103	1	0.97	0.54	1.62	(0.02, 9.01)	96	1.10
St. Peters Hospital	82	0	0.00	0.49	0.00	(0.00, 8.25)	78	0.00
Kukar A	210	1	0.48	0.84	0.51	(0.01, 2.85)	185	0.00
Jamaica Hosp Med Ctr	17	1	5.88	1.96	2.70	(0.04,15.02)	.	.
Lenox Hill Hospital	193	0	0.00	0.74	0.00	(0.00, 2.32)	185	0.00
Kurian D¹	106	0	0.00	0.48	0.00	(0.00, 6.48)	98	0.00
Bellevue Hospital Ctr	2	0	0.00	0.13	0.00	(0.00,100.0)	2	0.00
NYU Hospitals Center	10	0	0.00	0.35	0.00	(0.00,94.57)	10	0.00
SVCMC- St. Vincents	94	0	0.00	0.50	0.00	(0.00, 7.00)	86	0.00
Kwan T¹	683	1	0.15	0.32	0.41	(0.01, 2.26)	680	0.00
Beth Israel Med Ctr	603	1	0.17	0.33	0.45	(0.01, 2.49)	601	0.00
NYU Hospitals Center	14	0	0.00	0.17	0.00	(0.00,100.0)	14	0.00
SVCMC- St. Vincents	66	0	0.00	0.27	0.00	(0.00,18.30)	65	0.00
Laifer L	111	1	0.90	1.21	0.67	(0.01, 3.73)	73	1.81
M I Bassett Hospital	88	1	1.14	1.46	0.70	(0.01, 3.90)	50	2.20
NYP- Columbia Presby.	23	0	0.00	0.26	0.00	(0.00,56.12)	23	0.00
Lasic Z	529	5	0.95	1.14	0.74	(0.24, 1.74)	405	0.23
Jamaica Hosp Med Ctr	127	4	3.15	2.88	0.98	(0.26, 2.52)	10	0.00
Lenox Hill Hospital	402	1	0.25	0.60	0.38	(0.00, 2.09)	395	0.23
Lederman S	263	1	0.38	0.76	0.45	(0.01, 2.52)	253	0.31
North Shore Univ Hosp	31	0	0.00	0.35	0.00	(0.00,30.54)	31	0.00
Univ. Hosp-Stony Brook	232	1	0.43	0.81	0.48	(0.01, 2.66)	222	0.33
Lee A	559	9	1.61	1.24	1.17	(0.53, 2.22)	423	0.74
Long Island Jewish	20	1	5.00	2.47	1.82	(0.02,10.14)	3	0.00
North Shore Univ Hosp	539	8	1.48	1.20	1.12	(0.48, 2.21)	420	0.75
Lee P C	235	1	0.43	0.53	0.73	(0.01, 4.05)	220	1.02
Beth Israel Med Ctr	34	0	0.00	0.21	0.00	(0.00,45.31)	34	0.00
Lutheran Medical Ctr	30	0	0.00	2.22	0.00	(0.00, 4.96)	15	0.00
Mount Sinai Hospital	171	1	0.58	0.29	1.81	(0.02,10.09)	171	1.27

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Lee P J	913	12	1.31	0.60	1.98 *	(1.02, 3.45)	819	1.29
Good Sam - West Islip	376	4	1.06	0.71	1.34	(0.36, 3.44)	324	0.72
North Shore Univ Hosp	70	2	2.86	0.49	5.28	(0.59,19.05)	69	3.00
Southside Hospital	388	6	1.55	0.51	2.74 *	(1.00, 5.97)	347	1.80
St. Francis Hospital	79	0	0.00	0.61	0.00	(0.00, 6.86)	79	0.00
Ling F	557	6	1.08	1.28	0.76	(0.28, 1.65)	414	0.23
Strong Memorial Hosp	528	5	0.95	1.28	0.67	(0.21, 1.55)	388	0.24
Unity Hospital	29	1	3.45	1.23	2.53	(0.03,14.07)	26	0.00
Liou M¹	183	0	0.00	0.41	0.00	(0.00, 4.38)	183	0.00
Beth Israel Med Ctr	119	0	0.00	0.50	0.00	(0.00, 5.58)	119	0.00
NYU Hospitals Center	54	0	0.00	0.22	0.00	(0.00,27.66)	54	0.00
SVMC- St. Vincents	10	0	0.00	0.43	0.00	(0.00,77.69)	10	0.00
Lituchy A	558	2	0.36	0.91	0.36	(0.04, 1.29)	519	0.00 **
South Nassau Com. Hosp	13	0	0.00	1.47	0.00	(0.00,17.34)	5	0.00
St. Francis Hospital	545	2	0.37	0.89	0.37	(0.04, 1.34)	514	0.00 **
MacIsaac H	809	9	1.11	1.32	0.76	(0.35, 1.45)	686	0.50
Faxton - St. Lukes	24	2	8.33	2.59	2.90	(0.33,10.47)	12	0.00
St. Elizabeth Med Ctr	785	7	0.89	1.28	0.63	(0.25, 1.30)	674	0.51
Macina A	55	1	1.82	1.34	1.22	(0.02, 6.80)	21	0.00
Albany Medical Center	52	1	1.92	1.29	1.34	(0.02, 7.47)	21	0.00
St. Peters Hospital	3	0	0.00	2.19	0.00	(0.00,50.34)	.	.
Madrid A	278	0	0.00	0.95	0.00	(0.00, 1.25)	236	0.00
St. Catherine of Siena	10	0	0.00	4.05	0.00	(0.00, 8.16)	.	.
St. Francis Hospital	268	0	0.00	0.84	0.00	(0.00, 1.48)	236	0.00
Marchant D	261	0	0.00	1.33	0.00	(0.00, 0.95)	173	0.00
Long Island Jewish	16	0	0.00	1.78	0.00	(0.00,11.63)	4	0.00
North Shore Univ Hosp	245	0	0.00	1.30	0.00	(0.00, 1.04)	169	0.00
Masud A	635	1	0.16	0.71	0.20	(0.00, 1.11)	582	0.00
Buffalo General Hosp	173	1	0.58	0.58	0.90	(0.01, 5.00)	152	0.00
Millard Fillmore Hosp	462	0	0.00	0.76	0.00	(0.00, 0.94)	430	0.00
Mathew T C	661	8	1.21	0.80	1.36	(0.58, 2.67)	567	1.20
Faxton - St. Lukes	210	2	0.95	0.88	0.97	(0.11, 3.51)	161	0.87
St. Elizabeth Med Ctr	451	6	1.33	0.77	1.56	(0.57, 3.40)	406	1.30
Meltser H	400	9	2.25	1.48	1.37	(0.63, 2.61)	293	0.00
Mercy Hospital	399	9	2.26	1.48	1.37	(0.63, 2.61)	292	0.00
Millard Fillmore Hosp	1	0	0.00	0.16	0.00	(0.00,100.0)	1	0.00
Menegus M	732	9	1.23	1.06	1.05	(0.48, 1.99)	555	0.96
Montefiore - Moses	731	9	1.23	1.05	1.06	(0.48, 2.00)	555	0.96
Orange Regional Med Ctr	1	0	0.00	6.08	0.00	(0.00,54.39)	.	.

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Messinger D	243	3	1.23	1.07	1.03	(0.21, 3.02)	235	0.73
NYP- Weill Cornell	190	3	1.58	1.21	1.17	(0.24, 3.42)	184	0.86
Westchester Med Ctr	51	0	0.00	0.57	0.00	(0.00,11.39)	50	0.00
White Plains Hospital	2	0	0.00	0.75	0.00	(0.00,100.0)	1	0.00
Morris W	994	8	0.80	0.64	1.14	(0.49, 2.24)	924	0.75
Buffalo General Hosp	966	8	0.83	0.62	1.20	(0.52, 2.36)	909	0.75
Mercy Hospital	19	0	0.00	0.58	0.00	(0.00,30.09)	15	0.00
Millard Fillmore Hosp	9	0	0.00	2.41	0.00	(0.00,15.24)	.	.
Moses J	1734	7	0.40	0.52	0.70	(0.28, 1.44)	1733	0.43
NYP- Columbia Presby.	1695	7	0.41	0.52	0.71	(0.29, 1.47)	1694	0.44
NYP- Weill Cornell	39	0	0.00	0.42	0.00	(0.00,20.10)	39	0.00
Musso J	12	0	0.00	0.93	0.00	(0.00,29.75)	12	0.00
Long Island Jewish	8	0	0.00	0.25	0.00	(0.00,100.0)	8	0.00
North Shore Univ Hosp	2	0	0.00	4.39	0.00	(0.00,37.63)	2	0.00
Winthrop Univ. Hosp	2	0	0.00	0.16	0.00	(0.00,100.0)	2	0.00
Narins C	720	6	0.83	0.84	0.89	(0.33, 1.94)	549	0.43
Strong Memorial Hosp	664	6	0.90	0.88	0.92	(0.34, 2.00)	495	0.46
Unity Hospital	56	0	0.00	0.36	0.00	(0.00,16.52)	54	0.00
Nassif R	304	5	1.64	0.82	1.81	(0.58, 4.22)	269	1.26
Faxton - St. Lukes	73	2	2.74	0.72	3.42	(0.38,12.34)	60	7.65 *
St. Elizabeth Med Ctr	231	3	1.30	0.85	1.38	(0.28, 4.02)	209	0.47
Ong L S	2059	22	1.07	0.78	1.23	(0.77, 1.87)	1895	0.77
Rochester General Hosp	2040	22	1.08	0.76	1.27	(0.80, 1.93)	1882	0.77
Unity Hospital	19	0	0.00	2.56	0.00	(0.00, 6.80)	13	0.00
Ong L Y	762	4	0.52	0.76	0.62	(0.17, 1.59)	663	0.64
Long Island Jewish	16	0	0.00	3.17	0.00	(0.00, 6.52)	1	0.00
North Shore Univ Hosp	746	4	0.54	0.71	0.68	(0.18, 1.74)	662	0.64
Padmanabhan V	101	0	0.00	0.29	0.00	(0.00,11.26)	99	0.00
Long Island Jewish	1	0	0.00	0.13	0.00	(0.00,100.0)	1	0.00
NYP- Weill Cornell	18	0	0.00	0.41	0.00	(0.00,44.99)	18	0.00
North Shore Univ Hosp	82	0	0.00	0.27	0.00	(0.00,15.10)	80	0.00
Palkhiwala S	778	3	0.39	0.42	0.83	(0.17, 2.42)	778	0.49
Lenox Hill Hospital	106	0	0.00	0.23	0.00	(0.00,13.62)	106	0.00
Mount Sinai Hospital	672	3	0.45	0.45	0.90	(0.18, 2.62)	672	0.53
Papadakos S	776	8	1.03	0.91	1.02	(0.44, 2.00)	717	0.97
Lenox Hill Hospital	396	3	0.76	0.39	1.77	(0.36, 5.18)	392	1.06
NY Hospital - Queens	345	5	1.45	1.58	0.83	(0.27, 1.93)	290	0.96
North Shore Univ Hosp	34	0	0.00	0.35	0.00	(0.00,27.47)	34	0.00
St. Francis Hospital	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
Papaleo R	579	9	1.55	0.55	2.55 *	(1.16, 4.83)	540	0.89
Albany Medical Center	560	8	1.43	0.52	2.46 *	(1.06, 4.85)	533	0.89
Glens Falls Hospital	6	1	16.67	2.98	5.04	(0.07,28.06)	.	.
St. Peters Hospital	13	0	0.00	0.61	0.00	(0.00,41.36)	7	0.00

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Papandrea L	248	3	1.21	0.82	1.33	(0.27, 3.88)	200	1.47
Albany Medical Center	34	0	0.00	2.57	0.00	(0.00, 3.78)	12	0.00
St. Peters Hospital	214	3	1.40	0.54	2.33	(0.47, 6.81)	188	1.65
Parikh M	1012	5	0.49	0.59	0.76	(0.24, 1.77)	990	0.40
Jamaica Hosp Med Ctr	5	0	0.00	2.33	0.00	(0.00,28.41)	.	.
Lenox Hill Hospital	979	5	0.51	0.58	0.80	(0.26, 1.86)	962	0.42
NYP- Columbia Presby.	28	0	0.00	0.64	0.00	(0.00,18.30)	28	0.00
Park C	475	3	0.63	0.86	0.66	(0.13, 1.94)	364	0.74
Long Island Jewish	79	2	2.53	0.90	2.54	(0.28, 9.16)	60	1.48
NY Hospital - Queens	389	1	0.26	0.79	0.29	(0.00, 1.62)	304	0.49
North Shore Univ Hosp	7	0	0.00	3.92	0.00	(0.00,12.05)	.	.
Patcha R	296	1	0.34	0.74	0.41	(0.01, 2.28)	248	0.49
Huntington Hospital	52	0	0.00	1.91	0.00	(0.00, 3.34)	9	0.00
North Shore Univ Hosp	231	1	0.43	0.52	0.76	(0.01, 4.21)	226	0.51
St. Francis Hospital	13	0	0.00	0.17	0.00	(0.00,100.0)	13	0.00
Patel A	390	3	0.77	1.07	0.65	(0.13, 1.90)	326	0.74
Faxton - St. Lukes	9	0	0.00	1.09	0.00	(0.00,33.78)	2	0.00
St. Elizabeth Med Ctr	381	3	0.79	1.07	0.67	(0.13, 1.95)	324	0.75
Patel R B	518	2	0.39	0.73	0.48	(0.05, 1.72)	415	0.00
Good Sam - West Islip	120	1	0.83	1.18	0.64	(0.01, 3.55)	83	0.00
North Shore Univ Hosp	15	0	0.00	0.33	0.00	(0.00,66.99)	15	0.00
Southside Hospital	301	1	0.33	0.47	0.64	(0.01, 3.54)	267	0.00
St. Catherine of Siena	82	0	0.00	1.11	0.00	(0.00, 3.62)	50	0.00
Patel T	1374	24	1.75	1.09	1.45 *	(0.93, 2.15)	1167	1.02
Rochester General Hosp	393	9	2.29	1.24	1.66	(0.76, 3.15)	367	0.95
Unity Hospital	981	15	1.53	1.03	1.34	(0.75, 2.21)	800	1.10
Pena Sing I	445	6	1.35	1.05	1.16	(0.42, 2.52)	398	0.30
Bellevue Hospital Ctr	361	6	1.66	1.11	1.35	(0.49, 2.93)	327	0.33
NYU Hospitals Center	84	0	0.00	0.78	0.00	(0.00, 5.04)	71	0.00
Perry-Bottinger L	88	1	1.14	0.52	1.96	(0.03,10.89)	88	1.19
NY Hospital - Queens	12	0	0.00	0.22	0.00	(0.00,100.0)	12	0.00
NYP- Columbia Presby.	76	1	1.32	0.57	2.08	(0.03,11.56)	76	1.24
Petrossian G	1299	9	0.69	0.93	0.67	(0.31, 1.27)	1246	0.40
South Nassau Com. Hosp	62	3	4.84	1.76	2.47	(0.50, 7.22)	56	2.43
St. Francis Hospital	1237	6	0.49	0.89	0.49	(0.18, 1.07)	1190	0.30
Phadke K	1032	7	0.68	1.03	0.59	(0.24, 1.22)	853	0.49
Buffalo General Hosp	20	1	5.00	6.49	0.69	(0.01, 3.86)	1	0.00
Erie County Med Ctr	8	0	0.00	4.42	0.00	(0.00, 9.35)	4	0.00
Millard Fillmore Hosp	1004	6	0.60	0.90	0.60	(0.22, 1.31)	848	0.50
Puma A	372	2	0.54	0.44	1.10	(0.12, 3.98)	348	0.45
Jamaica Hosp Med Ctr	12	1	8.33	1.77	4.25	(0.06,23.64)	.	.
Lenox Hill Hospital	360	1	0.28	0.39	0.63	(0.01, 3.53)	348	0.45

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Punukollu G	232	0	0.00	0.29	0.00	(0.00, 4.88)	231	0.00
Beth Israel Med Ctr	214	0	0.00	0.29	0.00	(0.00, 5.28)	213	0.00
NY Methodist Hospital	18	0	0.00	0.29	0.00	(0.00,63.90)	18	0.00
Pyo R	268	1	0.37	0.53	0.63	(0.01, 3.50)	258	0.60
Elmhurst Hospital Ctr	1	0	0.00	1.79	0.00	(0.00,100.0)	.	.
Lutheran Medical Ctr	4	0	0.00	2.69	0.00	(0.00,30.70)	.	.
Montefiore - Moses	10	0	0.00	0.19	0.00	(0.00,100.0)	10	0.00
Mount Sinai Hospital	253	1	0.40	0.51	0.70	(0.01, 3.89)	248	0.61
Raza J	444	5	1.13	1.39	0.73	(0.23, 1.70)	349	0.41
Jamaica Hosp Med Ctr	98	3	3.06	3.72	0.74	(0.15, 2.16)	10	0.00
Lenox Hill Hospital	346	2	0.58	0.73	0.71	(0.08, 2.56)	339	0.42
Rehman A	615	6	0.98	0.96	0.92	(0.33, 1.99)	546	0.44
North Shore Univ Hosp	11	0	0.00	1.40	0.00	(0.00,21.50)	11	0.00
South Nassau Com. Hosp	31	1	3.23	2.55	1.14	(0.01, 6.34)	14	0.00
St. Francis Hospital	573	5	0.87	0.87	0.91	(0.29, 2.12)	521	0.46
Reich D	778	2	0.26	0.59	0.39	(0.04, 1.42)	679	0.24
Good Sam - West Islip	383	1	0.26	0.56	0.42	(0.01, 2.32)	326	0.68
Long Island Jewish	2	0	0.00	0.30	0.00	(0.00,100.0)	2	0.00
North Shore Univ Hosp	72	0	0.00	0.58	0.00	(0.00, 7.87)	71	0.00
Southside Hospital	275	1	0.36	0.61	0.54	(0.01, 2.99)	234	0.00
St. Francis Hospital	46	0	0.00	0.67	0.00	(0.00,10.76)	46	0.00
Reimers C	945	5	0.53	0.60	0.79	(0.25, 1.84)	912	0.67
Jamaica Hosp Med Ctr	1	0	0.00	1.34	0.00	(0.00,100.0)	.	.
Lenox Hill Hospital	944	5	0.53	0.60	0.79	(0.26, 1.85)	912	0.67
Rentrop K¹	20	0	0.00	0.22	0.00	(0.00,76.23)	20	0.00
Beth Israel Med Ctr	1	0	0.00	0.10	0.00	(0.00,100.0)	1	0.00
Lenox Hill Hospital	5	0	0.00	0.49	0.00	(0.00,100.0)	5	0.00
NYU Hospitals Center	6	0	0.00	0.16	0.00	(0.00,100.0)	6	0.00
SVCMC- St. Vincents	8	0	0.00	0.11	0.00	(0.00,100.0)	8	0.00
Rosenband M	396	6	1.52	0.74	1.85	(0.67, 4.02)	364	1.40
North Shore Univ Hosp	2	0	0.00	0.31	0.00	(0.00,100.0)	2	0.00
St. Catherine of Siena	44	1	2.27	1.67	1.23	(0.02, 6.83)	29	0.00
Univ. Hosp-Stony Brook	350	5	1.43	0.62	2.06	(0.66, 4.81)	333	1.47
Rosero H	396	1	0.25	0.69	0.33	(0.00, 1.84)	365	0.31
Beth Israel Med Ctr	383	1	0.26	0.65	0.36	(0.00, 2.02)	358	0.31
Univ. Brooklyn @ LICH	13	0	0.00	1.82	0.00	(0.00,13.95)	7	0.00
Rouvelas P	225	3	1.33	0.58	2.07	(0.42, 6.05)	224	1.20
NY Methodist Hospital	223	3	1.35	0.58	2.08	(0.42, 6.06)	222	1.21
Staten Island Univ Hosp	2	0	0.00	0.13	0.00	(0.00,100.0)	2	0.00
Rutkin B	397	4	1.01	1.32	0.69	(0.19, 1.76)	263	0.78
Long Island Jewish	23	0	0.00	3.58	0.00	(0.00, 4.01)	2	0.00
North Shore Univ Hosp	374	4	1.07	1.18	0.82	(0.22, 2.09)	261	0.78

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Sassower M	897	10	1.11	1.00	1.01	(0.48, 1.86)	800	0.69
Faxton - St. Lukes	10	0	0.00	1.75	0.00	(0.00,18.90)	2	0.00
North Shore Univ Hosp	1	0	0.00	0.14	0.00	(0.00,100.0)	1	0.00
St. Elizabeth Med Ctr	817	10	1.22	0.96	1.15	(0.55, 2.11)	733	0.76
Winthrop Univ. Hosp	69	0	0.00	1.29	0.00	(0.00, 3.71)	64	0.00
Schwartz R	1121	4	0.36	0.75	0.43	(0.12, 1.10)	1030	0.20
Huntington Hospital	8	0	0.00	2.10	0.00	(0.00,19.70)	.	.
North Shore Univ Hosp	134	0	0.00	0.66	0.00	(0.00, 3.72)	131	0.00
St. Francis Hospital	11	0	0.00	1.97	0.00	(0.00,15.28)	11	0.00
Winthrop Univ. Hosp	968	4	0.41	0.74	0.50	(0.14, 1.29)	888	0.24
Sehhat K¹	86	0	0.00	0.39	0.00	(0.00, 9.90)	84	0.00
Beth Israel Med Ctr	1	0	0.00	0.12	0.00	(0.00,100.0)	1	0.00
Montefiore - Moses	66	0	0.00	0.43	0.00	(0.00,11.54)	64	0.00
NYP- Columbia Presby.	1	0	0.00	1.06	0.00	(0.00,100.0)	1	0.00
SVCMC- St. Vincents	18	0	0.00	0.20	0.00	(0.00,92.15)	18	0.00
Shah N	258	1	0.39	0.90	0.39	(0.01, 2.15)	223	0.00
St. Lukes Crnwill-Newbrg	105	1	0.95	1.46	0.59	(0.01, 3.28)	80	0.00
Vassar Bros. Med Ctr	153	0	0.00	0.53	0.00	(0.00, 4.10)	143	0.00
Shapira S	238	1	0.42	0.77	0.49	(0.01, 2.73)	190	0.94
Good Sam - Suffern	83	0	0.00	0.28	0.00	(0.00,14.08)	82	0.00
Orange Regional Med Ctr	155	1	0.65	1.03	0.56	(0.01, 3.13)	108	1.68
Shaqra H	291	3	1.03	1.03	0.91	(0.18, 2.65)	217	0.00
Bronx-Lebanon-Cncourse	67	3	4.48	3.04	1.33	(0.27, 3.88)	3	0.00
Montefiore - Moses	224	0	0.00	0.42	0.00	(0.00, 3.47)	214	0.00
Sherman W	207	1	0.48	1.06	0.41	(0.01, 2.29)	186	0.00
NY Methodist Hospital	30	0	0.00	0.28	0.00	(0.00,39.04)	30	0.00
NYP- Columbia Presby.	176	1	0.57	1.20	0.43	(0.01, 2.38)	155	0.00
White Plains Hospital	1	0	0.00	0.30	0.00	(0.00,100.0)	1	0.00
Shih A T	252	3	1.19	1.43	0.75	(0.15, 2.20)	230	0.00
Mount Sinai Hospital	31	0	0.00	1.18	0.00	(0.00, 9.06)	28	0.00
NYU Hospitals Center	2	0	0.00	0.21	0.00	(0.00,100.0)	2	0.00
Westchester Med Ctr	219	3	1.37	1.47	0.84	(0.17, 2.45)	200	0.00
Silverman G	583	6	1.03	1.01	0.92	(0.33, 1.99)	412	1.05
Montefiore - Weiler	399	5	1.25	0.63	1.79	(0.58, 4.19)	331	1.48
Orange Regional Med Ctr	184	1	0.54	1.85	0.27	(0.00, 1.48)	81	0.00
Simon C	400	8	2.00	1.80	1.00	(0.43, 1.97)	346	0.72
Mount Sinai Hospital	30	1	3.33	0.96	3.12	(0.04,17.35)	30	2.34
St. Lukes at St. Lukes	370	7	1.89	1.87	0.91	(0.37, 1.88)	316	0.62
Slater J	368	4	1.09	1.16	0.84	(0.23, 2.16)	321	0.37
Bellevue Hospital Ctr	51	3	5.88	1.52	3.48	(0.70,10.18)	36	0.00
NYU Hospitals Center	291	1	0.34	1.17	0.26	(0.00, 1.47)	260	0.46
St. Lukes at St. Lukes	26	0	0.00	0.36	0.00	(0.00,35.38)	25	0.00

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Slotwiner A	248	6	2.42	1.99	1.09	(0.40, 2.38)	203	1.17
Champ.Valley Phys Hosp	6	0	0.00	2.62	0.00	(0.00,20.99)	1	0.00
NYP- Weill Cornell	242	6	2.48	1.98	1.13	(0.41, 2.46)	202	1.17
Soffer D	292	1	0.34	0.45	0.69	(0.01, 3.83)	270	0.53
Jamaica Hosp Med Ctr	16	0	0.00	1.25	0.00	(0.00,16.49)	.	.
Lenox Hill Hospital	276	1	0.36	0.40	0.81	(0.01, 4.53)	270	0.53
Srinivas V	432	4	0.93	0.76	1.10	(0.30, 2.82)	371	1.06
Montefiore - Moses	2	0	0.00	1.55	0.00	(0.00,100.0)	1	0.00
Montefiore - Weiler	430	4	0.93	0.75	1.11	(0.30, 2.84)	370	1.07
Srivastava S¹	60	2	3.33	0.72	4.16	(0.47,15.03)	56	5.45 *
NYU Hospitals Center	5	0	0.00	0.21	0.00	(0.00,100.0)	5	0.00
SVMC- St. Vincents	33	1	3.03	0.58	4.70	(0.06,26.15)	32	6.11
Univ. Brooklyn @ LICH	22	1	4.55	1.05	3.90	(0.05,21.71)	19	5.42
Staniloae C¹	152	3	1.97	0.60	2.98	(0.60, 8.70)	136	1.06
Bellevue Hospital Ctr	6	0	0.00	0.93	0.00	(0.00,59.16)	5	0.00
NYU Hospitals Center	35	0	0.00	0.80	0.00	(0.00,11.82)	34	0.00
SVMC- St. Vincents	111	3	2.70	0.52	4.72 *	(0.95,13.80)	97	1.92
Stathopoulos I	84	4	4.76	2.69	1.59	(0.43, 4.08)	67	0.79
Lenox Hill Hospital	32	0	0.00	1.07	0.00	(0.00, 9.68)	32	0.00
NY Hospital - Queens	50	4	8.00	3.83	1.88	(0.51, 4.82)	33	1.51
NYU Hospitals Center	2	0	0.00	0.31	0.00	(0.00,100.0)	2	0.00
Strizik B	477	4	0.84	1.01	0.75	(0.20, 1.91)	388	0.47
Huntington Hospital	75	2	2.67	2.49	0.97	(0.11, 3.49)	9	0.00
Long Island Jewish	18	0	0.00	2.17	0.00	(0.00, 8.46)	17	0.00
North Shore Univ Hosp	384	2	0.52	0.67	0.70	(0.08, 2.53)	362	0.50
Stuver T	1016	12	1.18	0.92	1.16	(0.60, 2.03)	800	0.68
Rochester General Hosp	1009	12	1.19	0.91	1.18	(0.61, 2.05)	795	0.68
Unity Hospital	7	0	0.00	1.66	0.00	(0.00,28.41)	5	0.00
Suleman J	1018	4	0.39	0.70	0.51	(0.14, 1.30)	1006	0.38
Jamaica Hosp Med Ctr	1	0	0.00	1.34	0.00	(0.00,100.0)	.	.
Long Island Jewish	11	0	0.00	0.59	0.00	(0.00,51.32)	11	0.00
Mount Sinai Hospital	1006	4	0.40	0.70	0.51	(0.14, 1.31)	995	0.38
Sullivan P	93	0	0.00	1.03	0.00	(0.00, 3.46)	66	0.00
Buffalo General Hosp	79	0	0.00	0.90	0.00	(0.00, 4.66)	59	0.00
Mercy Hospital	11	0	0.00	1.86	0.00	(0.00,16.14)	6	0.00
Millard Fillmore Hosp	3	0	0.00	1.38	0.00	(0.00,79.60)	1	0.00
Tandar A	100	2	2.00	2.23	0.81	(0.09, 2.92)	41	0.00
Buffalo General Hosp	89	2	2.25	2.02	1.00	(0.11, 3.63)	41	0.00
Millard Fillmore Hosp	11	0	0.00	3.94	0.00	(0.00, 7.62)	.	.
Tsiamtsiouris T	489	6	1.23	1.37	0.81	(0.29, 1.75)	433	0.43
St. Catherine of Siena	18	0	0.00	2.52	0.00	(0.00, 7.30)	.	.
St. Francis Hospital	471	6	1.27	1.33	0.86	(0.32, 1.88)	433	0.43

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Varma P	477	8	1.68	0.83	1.81	(0.78, 3.57)	420	1.41
Faxton - St. Lukes	11	1	9.09	1.08	7.55	(0.10,42.03)	6	9.29
St. Elizabeth Med Ctr	466	7	1.50	0.83	1.64	(0.66, 3.37)	414	1.21
Visco J	860	7	0.81	0.31	2.38 *	(0.96, 4.91)	828	2.04 *
Buffalo General Hosp	858	7	0.82	0.31	2.41 *	(0.96, 4.96)	828	2.04 *
Millard Fillmore Hosp	2	0	0.00	1.23	0.00	(0.00,100.0)	.	.
Wachsman D	115	0	0.00	0.52	0.00	(0.00, 5.48)	108	0.00
North Shore Univ Hosp	111	0	0.00	0.54	0.00	(0.00, 5.56)	104	0.00
St. Francis Hospital	4	0	0.00	0.20	0.00	(0.00,100.0)	4	0.00
Weinberger J	13	0	0.00	0.40	0.00	(0.00,63.89)	13	0.00
NYP- Columbia Presby.	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
NYU Hospitals Center	12	0	0.00	0.42	0.00	(0.00,65.25)	12	0.00
Weinstein J	675	5	0.74	0.86	0.78	(0.25, 1.82)	613	0.71
St. Catherine of Siena	23	0	0.00	0.97	0.00	(0.00,14.80)	14	0.00
Univ. Hosp-Stony Brook	652	5	0.77	0.85	0.81	(0.26, 1.89)	599	0.72
Wilentz J	286	0	0.00	0.60	0.00	(0.00, 1.94)	268	0.00
Jamaica Hosp Med Ctr	3	0	0.00	1.56	0.00	(0.00,70.60)	.	.
Lenox Hill Hospital	283	0	0.00	0.59	0.00	(0.00, 1.99)	268	0.00
Witkes D	284	0	0.00	0.61	0.00	(0.00, 1.90)	274	0.00
North Shore Univ Hosp	110	0	0.00	0.46	0.00	(0.00, 6.55)	107	0.00
Winthrop Univ. Hosp	174	0	0.00	0.71	0.00	(0.00, 2.68)	167	0.00
Yang Y	391	2	0.51	0.51	0.91	(0.10, 3.27)	367	0.64
Jamaica Hosp Med Ctr	14	0	0.00	1.82	0.00	(0.00,13.00)	.	.
Lenox Hill Hospital	377	2	0.53	0.46	1.04	(0.12, 3.75)	367	0.64
Yatskar L	449	4	0.89	0.98	0.82	(0.22, 2.10)	381	0.76
Bellevue Hospital Ctr	301	4	1.33	0.95	1.26	(0.34, 3.23)	267	0.94
Elmhurst Hospital Ctr	26	0	0.00	3.35	0.00	(0.00, 3.79)	1	0.00
NYU Hospitals Center	122	0	0.00	0.54	0.00	(0.00, 4.98)	113	0.00
Zisfein J	453	2	0.44	0.97	0.41	(0.05, 1.48)	403	0.34
North Shore Univ Hosp	2	0	0.00	0.27	0.00	(0.00,100.0)	2	0.00
South Nassau Com. Hosp	367	1	0.27	0.91	0.27	(0.00, 1.51)	318	0.24
St. Francis Hospital	84	1	1.19	1.26	0.85	(0.01, 4.73)	83	0.57

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

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

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

Criteria Used in Reporting Significant Risk Factors (2010) Based on Documentation in Medical Record

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

Comorbidities, *continued*

- Peripheral Vascular Disease
Angiographic demonstration of at least 50% narrowing in a major aortoiliac or femoral/popliteal vessel, previous surgery for such disease, absent femoral or pedal pulses, or the inability to insert a catheter or intra-aortic balloon due to iliac aneurysm or obstruction of the aortoiliac or femoral arteries.
- Previous Organ Transplant
The patient has had any organ transplant prior to the PCI. This includes, but is not limited to: heart, lung, kidney, and liver transplants.
- Renal Failure, Creatinine
Highest Pre-PCI creatinine during the hospital admission was within the indicated range.
- Renal Failure, Dialysis
The patient is on chronic peritoneal or hemodialysis.

Ventricular Function

- Previous MI
Most recent myocardial infarction (MI) occurred in the specified time period before the intervention.
- ST Elevation
EKG finding of a rise in the S-T interval of >1 mm in two or more contiguous leads.
- Ejection Fraction
Value of the ejection fraction taken closest to, but before, the procedure. When a calculated measure is unavailable the ejection fraction should be estimated visually from the ventriculogram or by echocardiography. Intraoperative direct observation of the heart is not an adequate basis for a visual estimate of the ejection fraction.

Vessels Diseased

- Left Main Disease
The patient has at least a 50 percent blockage in the Left Main Coronary Artery.
- Three Vessels Diseased
The patient has at least a 70 percent blockage in each of the three native coronary arteries including the Left Anterior Descending (LAD), the Right Coronary Artery (RCA) and the Left Circumflex (LCX) or their major branches.
- Two Vessels Diseased
The patient has at least a 70 percent blockage in two of the native coronary arteries including the Left Anterior Descending (LAD), the Right Coronary Artery (RCA), and the Left Circumflex (LCX) or their major branches.

MEDICAL TERMINOLOGY

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

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

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

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

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

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

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

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

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

lesion - An irregular growth of fiber and tissue.

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

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

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

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

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

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

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

Appendix 1

2010 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 2010 are presented in the table that follows.

Roughly speaking, the odds ratio for a risk factor represents the number of times a patient with that risk factor is more likely to die in the hospital during or after PCI or after hospital discharge but within 30 days of the PCI than a patient without the risk factor, all other risk factors being the same. For example, the odds ratio for the risk factor “CHF, Current” is 2.402. This means that a patient with CHF in the past two weeks is approximately 2.402 times as likely to die in the hospital during the same admission as PCI or after hospital discharge but within 30 days of the PCI as a patient without CHF in the past two weeks who has the same other significant risk factors. The risk factors Female Gender, Unstable, COPD and Malignant Ventricular Arrhythmia are also interpreted in the same way.

With regard to age, the odds ratio roughly represents the number of times a patient who is over age 60 is more likely to die in the hospital or after discharge but within 30 days than another patient who is one year younger, all other significant risk factors being the same. Thus, a patient undergoing PCI who is 68 years old has approximately 1.064 times the chance of dying in the hospital or within 30 days than a 67 year-old patient has, all other risk factors being the same. All patients aged 60 years or younger have roughly the same odds of dying in the hospital or after discharge but within 30 days, if their other risk factors are identical.

Ejection Fraction, which is the percentage of blood in the heart’s left ventricle that is expelled when it contracts (with more denoting a healthier heart), is subdivided into four ranges (less than 20 percent, 20 percent to 29 percent, 30 percent to 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 3.838 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.

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

Number of vessels diseased is comprised of three categories for Appendix 1 (fewer than two vessels diseased, two vessels diseased and three vessels diseased). Two and three vessels diseased refers to patients with at least a 70 percent blockage in two or three of the native coronary arteries including the Left Anterior Descending (LAD), the Right Coronary Artery (RCA) and the Left Circumflex (LCX) or their major branches, respectively. The reference category for this group includes patients who have fewer than two vessels diseased.

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

Appendix 1 Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2010 (All Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: Number of Years > 60	—	0.0619	<.0001	1.064
Female Gender	30.87	0.4121	<.0001	1.510
Hemodynamic State				
Unstable	0.45	1.3958	<.0001	4.038
Ventricular Function				
Ejection Fraction				
Ejection Fraction 50% or greater	74.90	— Reference —		1.000
Ejection Fraction less than 20%	0.72	1.3450	<.0001	3.838
Ejection Fraction 20-29%	3.53	0.8315	<.0001	2.297
Ejection Fraction 30-49%	20.85	0.2799	0.0143	1.323
Pre-Procedural MI				
No MI within 14 days	74.01	— Reference —		1.000
MI with ST Elevation				
MI < 6 hrs	7.76	2.3390	<.0001	10.371
MI 6-11 hrs	1.53	2.1169	<.0001	8.305
MI 12 – 23 hrs	0.87	2.6819	<.0001	14.612
MI without ST Elevation				
MI < 6 hrs	0.66	1.1142	0.0142	3.047
MI 6-11 hrs	0.88	1.5386	<.0001	4.658
MI 12 – 23 hrs	1.69	1.0368	0.0036	2.820
MI with or without ST Elevation				
MI 1-14 days	12.60	0.9754	<.0001	2.652
Comorbidities				
CHF, Current	5.42	0.8764	<.0001	2.402
COPD	6.58	0.6013	<.0001	1.824
Malignant Ventricular Arrhythmia	0.55	0.7326	0.0097	2.081
Renal Failure				
No Renal Failure	89.98	— Reference —		1.000
Renal Failure, Creatinine 1.6-2.0 mg/dl	5.37	0.6444	<.0001	1.905
Renal Failure, Creatinine > 2.0 mg/dl	2.24	1.1821	<.0001	3.261
Renal Failure, Requiring Dialysis	2.40	1.6769	<.0001	5.349
Vessels Diseased				
Left Main Disease	3.91	0.5254	0.0021	1.691
Number of Vessels Diseased				
Fewer than Two Vessels Diseased	54.05	— Reference —		1.000
Two Vessels Diseased	32.04	0.2985	0.0088	1.348
Three Vessels Diseased	13.91	0.5051	<.0001	1.657
Intercept = -7.2079				
C Statistic = 0.865				

Appendix 2

2010 Risk Factors For In-Hospital/30-Day Mortality For Non-Emergency PCI

Appendix 2 contains the significant pre-procedural risk factors for 2010 New York State PCI patients who were not emergency patients (were not hemodynamically unstable and who did not suffer a heart attack within 24 hours prior to the PCI being performed).

The variables for Age, Malignant Ventricular Arrhythmia and Left Main Disease are interpreted in the same manner as they were in Appendix 1. The odds ratio for Previous Organ Transplant is interpreted in the same way as described for CHF-Current in Appendix 1.

Ejection Fraction is defined in the same way as in Appendix 1, except that for this model it is divided into three groups with ranges of less than 30 percent, 30 percent to 49 percent and 50 percent or more. Renal Failure is defined in the same way as in Appendix 1, but in this model there are three categories of elevated creatinine

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

Two or three vessels diseased refers to patients with at least a 70 percent blockage in two or three of the native coronary arteries including the Left Anterior Descending (LAD), the Right Coronary Artery (RCA) and the Left Circumflex (LCX) or their major branches.

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

Appendix 2 Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2010
(Non-Emergency Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: Number of Years > 60	—	0.0630	<.0001	1.065
Ventricular Function				
Ejection Fraction				
Ejection Fraction 50% or greater	78.31	— Reference —		1.000
Ejection Fraction less than 30%	3.77	0.6688	0.0021	1.952
Ejection Fraction 30 - 49%	17.92	0.5476	0.0003	1.729
Pre-Procedural MI				
No MI within 14 days	85.50	— Reference —		1.000
MI 1-14 days	14.50	0.9689	<.0001	2.635
Comorbidities				
Congestive Heart Failure (CHF)				
No CHF Current or Past	91.41	— Reference —		1.000
CHF, Past but not Current	3.06	0.6949	0.0072	2.004
CHF, Current	5.53	1.1441	<.0001	3.140
Malignant Ventricular Arrhythmia	0.35	1.0964	0.0163	2.993
Previous Organ Transplant	0.47	1.2520	0.0052	3.497
Renal Failure				
No Renal Failure	89.67	— Reference —		1.000
Renal Failure, Creatinine 1.6 – 2.0 mg/dl	5.46	0.4955	0.0164	1.641
Renal Failure, Creatinine 2.1 – 2.5 mg/dl	1.33	0.9385	0.0012	2.556
Renal Failure, Creatinine > 2.5 mg/dl	0.96	1.1898	0.0001	3.287
Renal Failure, Requiring Dialysis	2.58	1.5614	<.0001	4.766
Vessels Diseased				
Left Main Disease	4.09	0.4420	0.0379	1.556
Two or Three Vessels Diseased	46.06	0.2912	0.0359	1.338
Intercept = -7.0824				
C Statistic = 0.824				

Appendix 3

2008-2010 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 2008-2010 time period are presented in the table that follows. The interpretation of this table is similar to the interpretation of Appendices 1 and 2 that are described previously. Age, Female Gender, Unstable, Ejection Fraction, Pre-Procedural MI, COPD, CHF-Current, Malignant Ventricular Arrhythmia, Renal Failure, Left Main Disease and Number of Vessels Diseased are interpreted in the same manner as previously described in Appendix 1 or 2. Peripheral Vascular Disease is interpreted in the same manner as CHF-Current in Appendix 1.

Body surface area (BSA) is a function of height and weight and increases for larger heights and weights. This model includes terms for both BSA and BSA-squared, reflecting the complex relationship between BSA and in-hospital/30-day mortality. The quadratic function of BSA (BSA-squared) used in the statistical model in Appendix 3 reflects the fact that patients with very high and very low BSAs tend to have higher risks of in-hospital/30-day mortality than patients with intermediate levels of BSA. This functional form is used to improve the model's ability to predict mortality, but it means that the odds ratios for these terms do not have a straightforward interpretation.

Appendix 3 Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI in New York State, 2008-2010 (All Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: Number of Years > 60	—	0.0552	<.0001	1.057
Female Gender	31.47	0.2553	<.0001	1.291
Body Surface Area	—	-2.5040	0.0002	—
Body Surface Area - squared	—	0.5680	0.0004	—
Hemodynamic Status				
Unstable	0.45	1.7274	<.0001	5.626
Ventricular Function				
Ejection Fraction				
Ejection Fraction 50% or greater	74.54	— Reference —		1.000
Ejection Fraction less than 20%	0.75	1.3318	<.0001	3.788
Ejection Fraction 20-29%	3.48	0.8712	<.0001	2.390
Ejection Fraction 30-49%	21.23	0.2935	<.0001	1.341
Pre-Procedural MI				
No MI				
No MI	54.54	— Reference —		1.000
MI with ST Elevation				
MI < 6 hrs	7.73	2.3720	<.0001	10.719
MI 6-11 hrs	1.57	2.2534	<.0001	9.520
MI 12-23 hrs	0.93	2.4593	<.0001	11.696
MI without ST Elevation				
MI < 6 hrs	0.61	1.7656	<.0001	5.845
MI 6-11 hrs	0.81	1.5108	<.0001	4.530
MI 12-23 hrs	1.55	1.3891	<.0001	4.011
MI with or without ST Elevation				
MI 1-7 days	11.39	1.1760	<.0001	3.241
MI 8-20 days	1.44	0.8437	<.0001	2.325
MI > 20 days	19.44	0.2347	0.0202	1.265
Comorbidities				
CHF, Current	5.39	0.6911	<.0001	1.996
COPD	6.60	0.6202	<.0001	1.859
Malignant Ventricular Arrhythmia	0.60	1.0160	<.0001	2.762
Peripheral Vascular Disease	8.29	0.2703	0.0005	1.310
Renal Failure				
No Renal Failure				
No Renal Failure	68.45	— Reference —		1.000
Creatinine 1.2 - 1.5 mg/dL	21.55	0.3182	<.0001	1.375
Creatinine 1.6 - 2.0 mg/dL	5.49	0.7691	<.0001	2.158
Creatinine > 2.0 mg/dL	2.23	1.1469	<.0001	3.149
Renal Failure, Requiring Dialysis	2.27	1.6957	<.0001	5.450
Vessels Diseased				
Left Main Disease	3.97	0.4725	<.0001	1.604
Number of Vessels Diseased				
Fewer than Two Vessels Diseased				
Fewer than Two Vessels Diseased	54.33	— Reference —		1.000
Two Vessels Diseased	31.87	0.2350	0.0002	1.265
Three Vessels Diseased	13.80	0.4182	<.0001	1.519

Intercept = -4.4653

C Statistic = 0.865

Appendix 4

2008-2010 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 2008-2010 time period are presented in the Appendix 4 table below. The interpretation for this appendix is similar to the interpretation of Appendices 1-3 described previously. The Sum of Risk Factors Squared term is merely the square of the number of risk factors in Appendix 4 that a patient has (not counting age and body surface area), and is used to improve the ability of the model to predict mortality.

Appendix 4 Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI in New York State, 2008-2010 (Non-Emergency Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: Number of Years > 65	—	0.0606	<.0001	1.063
Body Surface Area	—	-3.3179	0.0001	—
Body Surface Area - squared	—	0.7337	0.0004	—
Ventricular Function				
Ejection Fraction				
Ejection Fraction 50% or greater	77.75	— Reference	—	1.000
Ejection Fraction less than 30%	3.79	1.1450	<.0001	3.142
Ejection Fraction 30-49%	18.46	0.8922	<.0001	2.440
Pre-Procedural MI				
No MI	62.86	— Reference	—	1.000
MI 1- 7 days	13.07	1.5176	<.0001	4.561
MI 8-20 days	1.65	1.2674	<.0001	3.552
MI > 20 days	22.41	0.5793	<.0001	1.785
Comorbidities				
COPD	6.92	1.1228	<.0001	3.074
Congestive Heart Failure (CHF)				
No CHF	91.74	— Reference	—	1.000
CHF, Past but not Current	2.78	0.9975	<.0001	2.711
CHF, Current	5.48	1.3617	<.0001	3.903
Malignant Ventricular Arrhythmia	0.40	1.5326	<.0001	4.630
Previous Organ Transplant	0.46	1.3279	<.0001	3.773
Renal Failure				
No Renal Failure	68.17	— Reference	—	1.000
Renal Failure, Creatinine 1.2 - 1.5 mg/dL	21.49	0.5932	<.0001	1.810
Renal Failure, Creatinine 1.6 - 2.0 mg/dL	5.59	1.1358	<.0001	3.114
Renal Failure, Creatinine 2.1 - 3.0 mg/dL	1.78	1.4712	<.0001	4.354
Renal Failure, Creatinine > 3.0 mg/dL	0.50	1.6719	<.0001	5.322
Renal Failure Requiring Dialysis	2.47	1.9975	<.0001	7.371
Vessels Diseased				
Left Main Disease	4.13	1.0327	<.0001	2.809
Two or Three Vessels Diseased	45.69	0.6667	<.0001	1.948
Sum of Risk Factors Squared	—	-0.0706	<.0001	—
Intercept = -3.6905				
C Statistic = 0.832				

Appendix 5

2008-2010 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 2008-2010 time period are presented in the Appendix 5 table below. The interpretation of this table is similar to the interpretation of Appendices 1-4. Age is represented by a linear and a quadratic (squared) term in order to improve the fit of the statistical model. The quadratic function of age reflects the fact that risk of mortality increases with increasing age at an increasing rate. In this form the odds ratios for the two terms are not meaningful in characterizing the relative risk of different patients.

Appendix 5 Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI in New York State, 2008-2010 (Emergency Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age in Years	—	-0.0410	0.1263	—
Age in Years - squared	—	0.0631	0.0016	—
Female Gender	27.23	0.8052	<.0001	2.237
Hemodynamic Status				
Unstable	3.37	2.1115	<.0001	8.260
Ventricular Function				
Ejection Fraction				
Ejection Fraction 30% or greater	92.84	— Reference —	—	1.000
Ejection Fraction less than 20%	5.91	2.2000	<.0001	9.025
Ejection Fraction 20-29%	1.25	1.4007	<.0001	4.058
Pre-Procedural MI				
No STEMI within 24 hrs	22.93	— Reference —	—	1.000
STEMI within 24 hrs	77.07	1.3241	<.0001	3.759
Comorbidities				
CHF, Current	4.79	1.1681	<.0001	3.216
COPD	4.49	1.1942	<.0001	3.301
Malignant Ventricular Arrhythmia	1.93	1.5742	<.0001	4.827
Renal Failure				
No Renal Failure	70.31	— Reference —	—	1.000
Renal Failure, Creatinine 1.2 - 1.5 mg/dL	22.00	0.8352	<.0001	2.305
Renal Failure, Creatinine 1.6 - 2.0 mg/dL	4.88	1.1510	<.0001	3.161
Renal Failure, Creatinine > 2.0 mg/dL	1.90	1.4960	<.0001	4.464
Renal Failure, Requiring Dialysis	0.92	2.2024	<.0001	9.047
Vessels Diseased				
Left Main Disease	2.92	1.0331	<.0001	2.810
Three Vessels Diseased	14.50	0.9487	<.0001	2.582
Sum of Risk Factors Squared	—	-0.0779	0.0004	—

Intercept = -5.7669

C Statistic = 0.832

NEW YORK STATE PERCUTANEOUS CORONARY INTERVENTION CENTERS

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

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

Bellevue Hospital Center
520 First Avenue
New York, New York 10016

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

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

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

Buffalo General Hospital
100 High Street
Buffalo, New York 14203

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

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

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

Crouse Hospital
736 Irving Avenue
Syracuse, New York 13210

Ellis Hospital
1101 Nott Street
Schenectady, New York 12308

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 of
Suffern
255 Lafayette Avenue
Suffern, New York 10901

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

Huntington Hospital*
270 Park Ave.
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

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

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

Mary Imogene Bassett
Healthcare
Atwell Road
Cooperstown, New York 13326

Maimonides Medical Center
4802 Tenth Avenue
Brooklyn, New York 11219

Mercy Hospital
565 Abbott Rd
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-
Weiler Hospital of
A Einstein College of Medicine
1825 Eastchester Road
Bronx, New York 10461

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

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

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

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

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

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

Rochester General Hospital
1425 Portland Avenue
Rochester, New York 14621

Samaritan Hospital*††
2215 Burdett Ave.
Troy, NY 12180

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
Hospital*
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/
Newburgh*
70 Dubois Street
Newburgh, New York 12550

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

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

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

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

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

Strong Memorial Hospital
601 Elmwood Avenue
Rochester, New York 14642

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

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

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

Vassar Brothers Hospital
45 Reade Place
Poughkeepsie, New York 12601

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

Westchester Medical Center
Grasslands Road
Valhalla, New York 10595

White Plains Hospital Center*
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 in 2010

*** Hospital closed in 2012

†† Hospital started PCI after 2010

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