

**PERCUTANEOUS  
CORONARY  
INTERVENTIONS  
(PCI)  
in  
New York State  
*2007 – 2009***

**New York State Department of Health  
February 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 . . . . . 4
  - Assessing Patient Risk . . . . . 5
  - Predicting Patient Mortality Rates for Providers . . . . . 5
  - Computing the Risk-Adjusted Mortality Rate. . . . . 5
  - Interpreting the Risk-Adjusted Mortality Rate . . . . . 5
  - How this Initiative Contributes to Quality Improvement . . . . . 6
- 2009 HOSPITAL RISK-ADJUSTED MORTALITY FOR PCI . . . . . 6
- 2007 – 2009 HOSPITAL DATA FOR PCI . . . . . 7
  - Table 1 In-Hospital/30-Day Observed, Expected and Risk-Adjusted Mortality Rates for PCI in New York State, 2009 Discharges . . . . . 9
  - Figure 1 In-Hospital/30-Day Risk-Adjusted Mortality Rates for PCI in New York State, 2009 Discharges (All Cases) . . . . . 10
  - Figure 2 In-Hospital/30-Day Risk-Adjusted Mortality Rates for PCI in New York State, 2009 Discharges (Non-Emergency Cases) . . . . . 11
  - Table 2 In-Hospital/30-Day Observed and Risk-Adjusted Mortality Rates for PCI in New York State, 2007 – 2009 Discharges . . . . . 12
- 2007 – 2009 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, 2007 – 2009 Discharges . . . . . 13
  - Table 4 Summary Information for Cardiologists Practicing at More Than One Hospital, 2007 – 2009 Discharges . . . . . 29
- CRITERIA USED IN REPORTING SIGNIFICANT RISK FACTORS (2009) . . . . . 45
- MEDICAL TERMINOLOGY . . . . . 47
- APPENDIX 1 2009 Risk Factors for PCI In-Hospital/30-Day Mortality (All Cases) . . . . . 48
- APPENDIX 2 2009 Risk Factors For In-Hospital/30-Day Mortality for Non-Emergency PCI . . . . . 50
- APPENDIX 3 2007 – 2009 Risk Factors for PCI In-Hospital/30-Day Mortality (All Cases) . . . . . 51
- APPENDIX 4 2007 – 2009 Risk Factors for In-Hospital/30-Day Mortality for Non-Emergency PCI . . . . . 53
- APPENDIX 5 2007 – 2009 Risk Factors for In-Hospital/30-Day Mortality for Emergency PCI . . . . . 54
- NEW YORK STATE PERCUTANEOUS CORONARY INTERVENTION CENTERS . . . . . 55



# MESSAGE FROM COMMISSIONER SHAH

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January 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 2009. 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

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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 162,159 patients who underwent PCI in NYS hospitals and were discharged between January 1, 2007, and December 31, 2009. Analyses of risk-adjusted mortality rates and associated risk factors are provided for 2009 and for the three-year period from 2007 through 2009. 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, 2007, and December 31, 2009, provided by all 57 non-federal hospitals in NYS where PCI was performed. In total there were 162,159 PCI procedures performed during this time period. The annual number of PCI discharges was 51,914 for 2007, 55,214 for 2008 and 55,031 for 2009. For various reasons, some of these cases are excluded from analysis in this report. The reasons for exclusion and number of cases affected are described below.

At the time St. Vincent's Hospital in Manhattan closed in April of 2010, the cardiac data validation process for 2009 cases was incomplete. Because the accuracy of risk factors, procedural information and outcomes for these cases cannot be verified, the 913 cases reported by this hospital with a discharge in 2009 are excluded from all analyses.

In addition, 206 records were excluded from the 2007 – 2009 data because they belong to patients residing outside the United States and these patients could not be followed after hospital discharge. There were an additional 32 cases excluded from analysis because each 30-day mortality can only be associated with a single PCI. Finally, an additional 432 cases were excluded because they were associated with the risk factor of Cardiogenic Shock.

Beginning with patients discharged in 2007, the Department of Health, with the advice of the Cardiac Advisory Committee, began a trial period of excluding any patients meeting the NYS Cardiac Data System definition of pre-operative cardiogenic shock from publicly released reports and analyses. Cardiogenic shock is a condition associated with severe hypotension (very low blood pressure); the technical definition used in this report can be found on Page 45. Patients in cardiogenic shock are extremely high-risk, but for some, PCI may be their best chance for survival. Furthermore, the magnitude of the risk is not always easily determined using registry data. These cases were excluded after careful deliberation and input from NYS providers and others in an effort to ensure that physicians could accept these cases where appropriate without concern over a detrimental impact on their reported outcomes. These 432 cases account for 0.27 percent of all PCI cases in the three years.

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). In the time period on which this report is based, 16 hospitals were performing PCI without cardiac surgery on-site. Beginning in 2007, seven of those centers were also granted permission to perform PCI on patients not having a STEMI. In December 2009, four additional hospitals were approved to perform PCI on patients not having a STEMI as a result of changes in NYS regulations. All hospitals currently performing Primary and/or Elective PCI without cardiac surgery on-site are listed on the final page of this report.

### **Note on Hospitals Not Performing PCI During Entire 2007 – 2009 Period**

Several hospitals began performing PCI during the 2007 – 2009 time period on which this report is based. All of these hospitals were initially allowed to perform PCI only on STEMI patients. The hospital name and the month of the first PCI performed are listed below: Faxton – St. Luke’s Healthcare, St. Luke’s Division – February 2007; Brookdale Hospital Medical Center – October 2007; 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. Two of these hospitals (Orange Regional Medical Center, and Lutheran Medical Center) received permission to perform Elective PCI in December 2009.

## **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 (0.91 percent in-hospital/30-day in 2009) 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.

### **2009 HOSPITAL RISK-ADJUSTED MORTALITY FOR PCI**

Table 1 and Figures 1 and 2 present the PCI mortality results for the 56 hospitals performing PCI in NYS in 2009 for which data could be analyzed. As previously noted, St. Vincent's Hospital in Manhattan also performed PCI in 2009, but these cases are excluded from analysis. The table contains, for each hospital, the number of PCIs resulting in 2009 discharges, the number of in-hospital/30-day deaths, the OMR, the EMR based on the statistical model presented in Appendix 1, the RAMR and a 95 percent confidence interval for the RAMR. It also contains each hospital's volume of cases and RAMR for non-emergency patients. Emergency patients are defined to be patients in a state of hemodynamic instability (very low blood pressure), or patients who experienced a heart attack within 24 hours prior to undergoing PCI. The hospital RAMRs for non-emergency PCI patients are provided because many studies are confined to this group of patients and because these patients comprise the majority of all PCI patients (86.55 percent in 2009).

The overall in-hospital/30-day OMR for the 53,893 PCIs included in this report was 0.91 percent. Observed mortality rates ranged from 0.00 percent to 7.06 percent. The range in EMRs, which measure patient severity of illness, was between 0.57 percent and 5.42 percent. It should be noted that during most of the time period covered in this report, the hospitals with the highest OMR and EMR values were approved to perform only Primary PCI. This means that all cases reported for these centers were emergency cases. The RAMRs, which measure hospital performance, range from 0.00 percent to 2.67 percent. Based on confidence intervals for RAMRs, four hospitals (Arnot Ogden in Elmira, Brookdale Hospital Medical Center in Brooklyn, Montefiore Medical Center – Weiler in the Bronx, and Strong Memorial Hospital in Rochester) had RAMRs that were significantly higher than the statewide average. Two hospitals (Lenox Hill Hospital in Manhattan and St. Francis Hospital in Roslyn) 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 0.53 percent. The range of RAMRs was from 0.00 percent to 11.52 percent. Four hospitals (Arnot Ogden in Elmira, Montefiore Medical Center – Weiler in the Bronx, St. Elizabeth Medical Center in Utica and Strong Memorial Hospital in Rochester) had RAMRs that were significantly higher than the statewide average. Two hospitals (Lenox Hill Hospital in Manhattan and St. Francis Hospital in Roslyn) had RAMRs that were significantly lower than the statewide average.

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 2009 PCI analysis is based on in-hospital/30-day mortality and excludes shock cases, the associated mortality rates cannot be compared directly to some previous NYS publications which are based on only in-hospital mortality and include shock cases.

The observed in-hospital mortality rate (not shown in Table 1) for 2009 PCI discharges was 0.55 percent for the 53,893 patients included in Table 1. For the non-emergency analysis, there were 46,642 patients with an in-hospital mortality rate of 0.24 percent.

## **2007-2009 HOSPITAL DATA FOR PCI**

Table 2 provides the number of PCIs, the in-hospital/30-day OMR and RAMR for 2007-2009 for each of three types of PCI patients in the 57 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 2007-2009 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 8.78 percent, and the RAMRs ranged from 0.00 percent to 2.64 percent. Nine hospitals (Arnot Ogden in Elmira, Brookdale Hospital Medical Center in Brooklyn, Crouse Hospital in Syracuse, Glens Falls Hospital, Good Samaritan Hospital of Suffern, Montefiore Medical Center – Weiler in the Bronx, St. Peter’s Hospital in Albany, Strong Memorial Hospital in Rochester and University Hospital of Brooklyn) had RAMRs that were significantly higher than the statewide rate. Six hospitals (Long Island Jewish Medical Center in New Hyde Park, Maimonides Medical Center in Brooklyn, Mount Sinai Hospital in Manhattan, NYU Hospitals Center in Manhattan, St. Francis Hospital in Roslyn, and United Health Services – Wilson Division in Johnson City) 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 87.02 percent of cases for the period 2007-2009. The statewide in-hospital/30-day mortality rate for the 139,739 non-emergency cases during the 3-year period was 0.59 percent. Observed mortality rates for this group of patients ranged from 0.00 percent to 50.00 percent and the RAMRs ranged from 0.00 to 15.45 percent. It should be noted that the hospital with the highest mortality rate only performed two cases in this category during the 2007 – 2009 time period. Four hospitals (Crouse Hospital in Syracuse, Montefiore Medical Center – Weiler in the Bronx, Strong Memorial Hospital in Rochester and University Hospital of Brooklyn) had RAMRs that were significantly higher than the statewide rate. Three hospitals (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 12.98 percent of cases for the period 2007-2009. The statewide in-hospital/30-day mortality rate for the 20,837 emergency PCI cases during the 3-year period was 3.27 percent. Observed mortality rates for this group ranged from 0.00 percent to 11.40 percent and the RAMRs ranged from 0.00 percent to 9.59 percent. Two hospitals (Brookdale Hospital Medical Center in Brooklyn and Good Samaritan Hospital of Suffern) had RAMRs that were significantly above the statewide average for emergency cases. Three hospitals (Maimonides Medical Center in Brooklyn, North Shore University Hospital in Manhasset and United Health Services – Wilson Division in Johnson City) 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 160,576 cases included in Table 2 was 0.56 percent. The in-hospital mortality rate was 0.27 percent for the 139,739 non-emergency cases and 2.55 percent for the 20,837 emergency cases. As stated above, cases with shock are excluded from these analyses. Therefore, volume and mortality rates for the all cases and emergency cases analyses are not directly comparable to some previously published by the Department of Health.

**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 (0.91 percent in-hospital/30-day mortality for all PCI patients discharged in 2009).

**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.

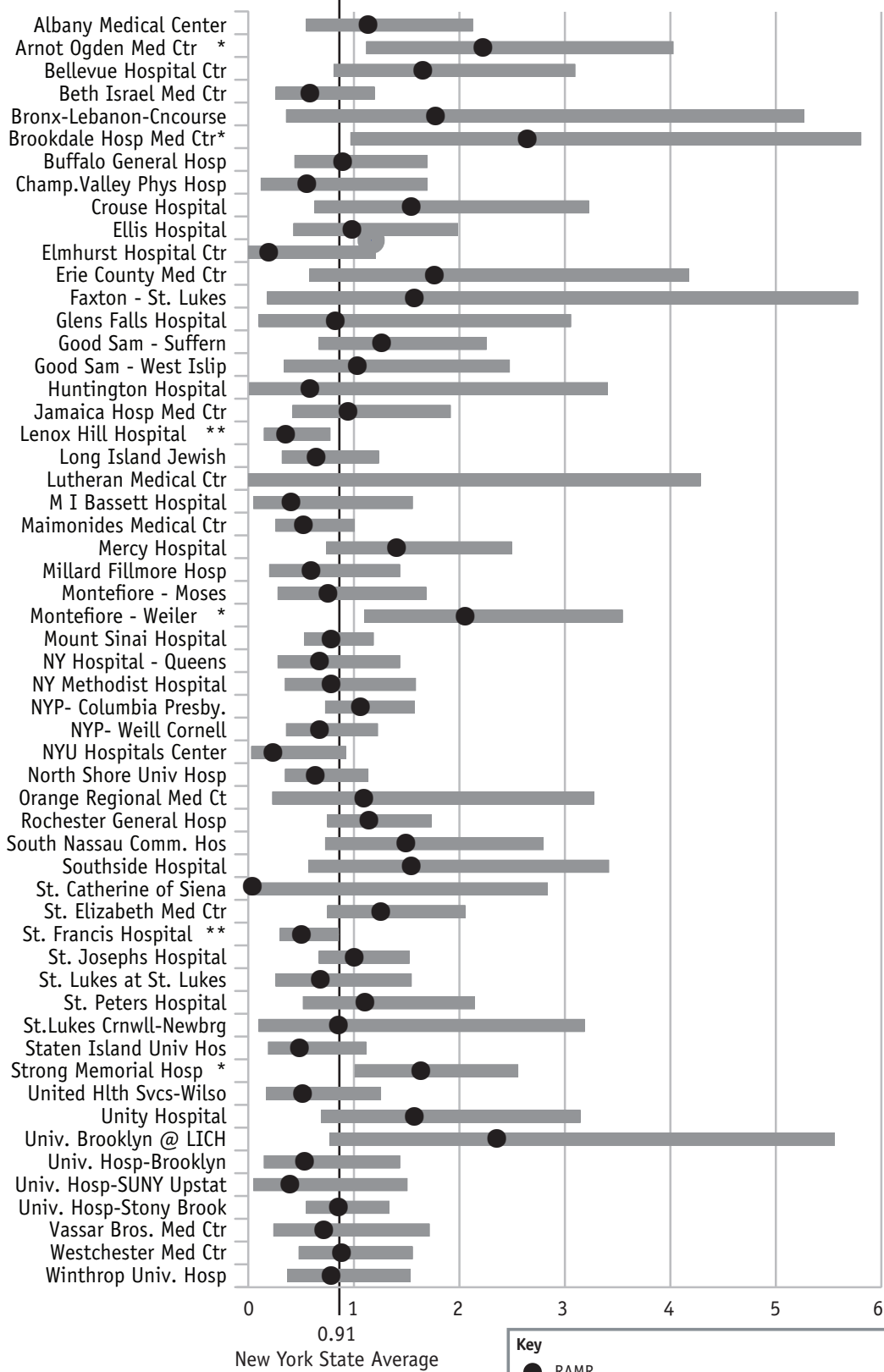
**Table 1** In-Hospital / 30-Day Observed, Expected and Risk-Adjusted Mortality Rates for PCI in New York State, 2009 Discharges. (Listed Alphabetically by Hospital)

Hospital	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Albany Medical Center	1076	10	0.93	0.73	1.16	(0.55, 2.13)	954	0.93
Arnot Ogden Med Ctr	467	11	2.36	0.95	2.25 *	(1.12, 4.03)	352	1.93 *
Bellevue Hospital Ctr	534	10	1.87	1.01	1.68	(0.81, 3.10)	478	1.26
Beth Israel Med Ctr	1637	8	0.49	0.73	0.61	(0.26, 1.20)	1545	0.21
Bronx-Lebanon-Cncourse	43	3	6.98	3.51	1.80	(0.36, 5.27)	.	.
Brookdale Hosp Med Ctr	85	6	7.06	2.40	2.67 *	(0.97, 5.81)	34	0.00
Buffalo General Hosp	1541	10	0.65	0.64	0.92	(0.44, 1.70)	1415	0.70
Champ.Valley Phys Hosp	555	3	0.54	0.84	0.58	(0.12, 1.70)	438	0.28
Crouse Hospital	394	7	1.78	1.03	1.57	(0.63, 3.23)	322	1.38
Ellis Hospital	507	8	1.58	1.42	1.01	(0.43, 1.99)	328	0.70
Elmhurst Hospital Ctr	307	1	0.33	1.37	0.22	(0.00, 1.21)	207	0.54
Erie County Med Ctr	168	5	2.98	1.51	1.79	(0.58, 4.18)	90	1.26
Faxton - St. Lukes	41	2	4.88	2.77	1.60	(0.18, 5.78)	.	.
Glens Falls Hospital	259	2	0.77	0.83	0.85	(0.10, 3.06)	198	1.09
Good Sam - Suffern	760	12	1.58	1.11	1.29	(0.67, 2.26)	599	0.22
Good Sam - West Islip	683	5	0.73	0.63	1.06	(0.34, 2.48)	591	0.56
Huntington Hospital	68	1	1.47	2.18	0.61	(0.01, 3.41)	.	.
Jamaica Hosp Med Ctr	142	8	5.63	5.27	0.97	(0.42, 1.92)	.	.
Lenox Hill Hospital	2940	7	0.24	0.57	0.38 **	(0.15, 0.78)	2825	0.24 **
Long Island Jewish	1963	10	0.51	0.69	0.67	(0.32, 1.24)	1756	0.28
Lutheran Medical Ctr	25	0	0.00	3.11	0.00	(0.00, 4.29)	1	0.00
M I Bassett Hospital	345	2	0.58	1.22	0.43	(0.05, 1.56)	239	0.00
Maimonides Medical Ctr	1255	10	0.80	1.32	0.55	(0.26, 1.01)	1034	0.47
Mercy Hospital	593	12	2.02	1.29	1.43	(0.74, 2.50)	441	0.63
Millard Fillmore Hosp	891	5	0.56	0.82	0.62	(0.20, 1.44)	777	0.24
Montefiore - Moses	844	6	0.71	0.83	0.78	(0.28, 1.69)	714	0.52
Montefiore - Weiler	838	13	1.55	0.68	2.08 *	(1.10, 3.55)	717	1.56 *
Mount Sinai Hospital	5060	26	0.51	0.57	0.81	(0.53, 1.19)	4957	0.45
NY Hospital - Queens	788	7	0.89	1.15	0.70	(0.28, 1.44)	651	0.38
NY Methodist Hospital	1258	8	0.64	0.71	0.81	(0.35, 1.59)	1186	0.54
NYP- Columbia Presby.	2881	28	0.97	0.81	1.09	(0.73, 1.58)	2735	0.71
NYP- Weill Cornell	1375	12	0.87	1.13	0.70	(0.36, 1.23)	1229	0.66
NYU Hospitals Center	1124	2	0.18	0.62	0.26	(0.03, 0.93)	1063	0.11
North Shore Univ Hosp	1991	13	0.65	0.89	0.66	(0.35, 1.14)	1678	0.61
Orange Regional Med Ctr	108	3	2.78	2.25	1.12	(0.23, 3.28)	2	11.52
Rochester General Hosp	1813	24	1.32	1.03	1.17	(0.75, 1.74)	1525	0.59
South Nassau Comm. Hosp	463	10	2.16	1.29	1.52	(0.73, 2.80)	365	0.99
Southside Hospital	549	6	1.09	0.63	1.57	(0.57, 3.42)	479	0.89
St. Catherine of Siena	45	0	0.00	2.61	0.00	(0.00, 2.84)	3	0.00
St. Elizabeth Med Ctr	1367	17	1.24	0.88	1.28	(0.75, 2.06)	1234	1.03 *
St. Francis Hospital	3105	16	0.52	0.88	0.53 **	(0.30, 0.86)	2928	0.21 **
St. Josephs Hospital	2144	25	1.17	1.03	1.03	(0.67, 1.53)	1759	0.71
St. Lukes at St. Lukes	495	6	1.21	1.55	0.71	(0.26, 1.55)	401	0.39
St. Peters Hospital	835	9	1.08	0.86	1.13	(0.52, 2.15)	645	0.52
St.Lukes Crnwll-Newbrg	38	2	5.26	5.42	0.88	(0.10, 3.19)	.	.
Staten Island Univ Hosp	1159	6	0.52	0.92	0.51	(0.19, 1.12)	1001	0.38
Strong Memorial Hosp	1145	20	1.75	0.96	1.66 *	(1.01, 2.56)	859	1.34 *
United Hlth Svcs-Wilson	719	5	0.70	1.17	0.54	(0.17, 1.26)	568	0.22
Unity Hospital	433	8	1.85	1.05	1.60	(0.69, 3.15)	363	1.63
Univ. Brooklyn @ LICH	174	5	2.87	1.10	2.38	(0.77, 5.56)	129	0.85
Univ. Hosp-Brooklyn	742	4	0.54	0.87	0.56	(0.15, 1.44)	664	0.37
Univ. Hosp-SUNY Upstate	312	2	0.64	1.39	0.42	(0.05, 1.51)	231	0.00
Univ. Hosp-Stony Brook	1829	22	1.20	1.24	0.88	(0.55, 1.34)	1408	0.41
Vassar Bros. Med Ctr	644	5	0.78	0.96	0.74	(0.24, 1.72)	496	0.58
Westchester Med Ctr	1207	13	1.08	1.07	0.91	(0.48, 1.56)	1022	0.28
Winthrop Univ. Hosp	1129	9	0.80	0.89	0.81	(0.37, 1.54)	1006	0.51
<b>Statewide Total</b>	<b>53893</b>	<b>490</b>	<b>0.91</b>				<b>46642</b>	<b>0.53</b>

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

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

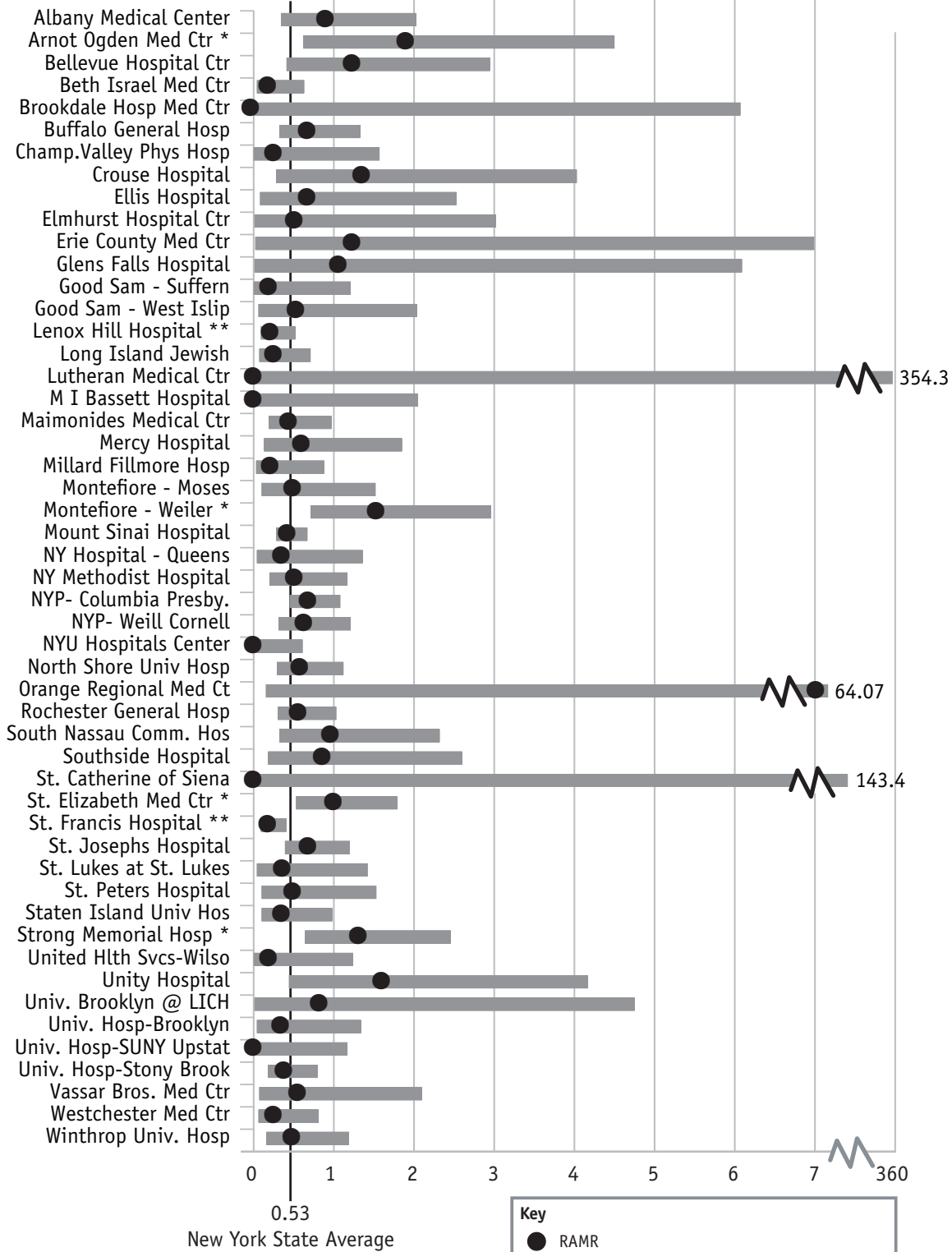
**Figure 1** In-Hospital/30-Day Risk-Adjusted Mortality Rates for PCI in New York State, 2009 Discharges (All Cases)



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



**Figure 2** In-Hospital/30-Day Risk-Adjusted Mortality Rates for PCI in New York State, 2009 Discharges (Non-Emergency Cases)



**Table 2** In-Hospital/30-Day Observed and Risk-Adjusted Mortality Rates for PCI in New York State, 2007 - 2009 Discharges

Hospital	All Cases			Non-Emergency Cases			Emergency Cases		
	Cases	OMR	RAMR	Cases	OMR	RAMR	Cases	OMR	RAMR
Albany Medical Center	3078	0.81	1.12	2676	0.56	0.85	402	2.49	2.85
Arnot Ogden Med Ctr	1133	1.77	1.58 *	822	0.97	1.30	311	3.86	4.80
Bellevue Hospital Ctr	1484	1.48	1.30	1338	0.60	0.61	146	9.59	5.07
Beth Israel Med Ctr	4861	0.47	0.65	4650	0.30	0.36	211	4.27	3.20
Bronx-Lebanon-Cncourse	43	6.98	2.14	.	.	.	43	6.98	6.86
Brookdale Hosp Med Ctr	148	8.78	2.64 *	34	0.00	0.00	114	11.40	9.59 *
Buffalo General Hosp	4460	0.70	0.98	4136	0.63	0.74	324	1.54	1.91
Champ.Valley Phys Hosp	1309	0.53	0.49	1004	0.30	0.34	305	1.31	1.61
Crouse Hospital	1459	1.58	1.51 *	1207	0.99	1.37 *	252	4.37	4.00
Ellis Hospital	1562	1.41	1.03	1042	0.67	0.83	520	2.88	3.33
Elmhurst Hospital Ctr	930	0.54	0.43	644	0.16	0.24	286	1.40	1.53
Erie County Med Ctr	662	2.27	1.43	387	0.78	0.88	275	4.36	5.00
Faxton - St. Lukes	83	6.02	1.82	.	.	.	83	6.02	6.50
Glens Falls Hospital	860	1.74	1.77 *	648	0.77	1.68	212	4.72	5.03
Good Sam - Suffern	2337	1.84	1.56 *	1860	0.81	0.85	477	5.87	5.61 *
Good Sam - West Islip	1227	1.22	1.31	941	0.21	0.44	286	4.55	5.25
Huntington Hospital	197	1.52	0.57	.	.	.	197	1.52	1.95
Jamaica Hosp Med Ctr	341	3.81	1.01	.	.	.	341	3.81	3.41
Lenox Hill Hospital	8704	0.55	0.86	8391	0.43	0.50	313	3.83	3.88
Long Island Jewish	5642	0.55	0.62 **	5009	0.36	0.39	633	2.05	2.31
Lutheran Medical Ctr	25	0.00	0.00	1	0.00	0.00	24	0.00	0.00
M I Bassett Hospital	968	1.24	1.15	746	0.67	0.85	222	3.15	3.54
Maimonides Medical Ctr	3885	0.95	0.64 **	3277	0.67	0.43	608	2.47	1.98 **
Mercy Hospital	1773	1.58	1.00	1296	0.46	0.38	477	4.61	4.04
Millard Fillmore Hosp	2820	0.74	0.81	2499	0.48	0.47	321	2.80	3.11
Montefiore - Moses	2441	0.74	0.72	2003	0.30	0.35	438	2.74	2.93
Montefiore - Weiler	2469	1.42	1.97 *	2133	1.03	1.37 *	336	3.87	6.05
Mount Sinai Hospital	13993	0.53	0.67 **	13602	0.46	0.45 **	391	3.07	2.21
NY Hospital - Queens	2676	1.16	1.09	2316	0.69	0.77	360	4.17	3.43
NY Methodist Hospital	3693	0.81	0.92	3482	0.57	0.51	211	4.74	3.77
NYP- Columbia Presby.	8741	0.90	0.96	8305	0.73	0.66	436	4.13	2.79
NYP- Weill Cornell	4389	1.07	0.85	3886	0.82	0.66	503	2.98	2.03
NYU Hospitals Center	2816	0.28	0.41 **	2664	0.11	0.14 **	152	3.29	3.22
North Shore Univ Hosp	6779	0.78	0.76	5844	0.63	0.63	935	1.71	1.72 **
Orange Regional Med Ctr	195	2.56	0.89	2	50.00	15.45	193	2.07	2.54
Rochester General Hosp	6056	1.16	1.21	5254	0.80	0.71	802	3.49	4.43
SVCMC- St. Vincents	2143	0.70	1.63	2031	0.44	0.89	112	5.36	6.87
South Nassau Comm. Hosp	1237	1.62	1.08	933	1.29	1.00	304	2.63	2.66
Southside Hospital	1693	0.71	1.12	1490	0.47	0.87	203	2.46	3.19
St. Catherine of Siena	114	0.00	0.00	5	0.00	0.00	109	0.00	0.00
St. Elizabeth Med Ctr	3669	1.12	1.06	3234	0.90	0.83	435	2.76	2.53
St. Francis Hospital	8703	0.70	0.67 **	8175	0.49	0.37 **	528	3.98	3.19
St. Josephs Hospital	6064	1.06	0.93	5044	0.69	0.62	1020	2.84	3.09
St. Lukes at St. Lukes	1509	1.06	0.70	1241	0.32	0.24	268	4.48	3.36
St. Peters Hospital	2468	1.42	1.46 *	1920	0.89	0.97	548	3.28	4.74
St.Lukes Crnwill-Newbrg	38	5.26	0.94	.	.	.	38	5.26	3.24
Staten Island Univ Hosp	3401	0.53	0.65	2965	0.30	0.36	436	2.06	2.57
Strong Memorial Hosp	3633	1.49	1.43 *	2793	1.04	1.14 *	840	2.98	3.92
United Hlth Svcs-Wilson	2365	0.63	0.55 **	1830	0.33	0.40	535	1.68	1.64 **
Unity Hospital	1061	1.70	1.37	854	0.59	0.95	207	6.28	4.45
Univ. Brooklyn @ LICH	357	2.52	1.41	233	0.86	1.13	124	5.65	4.58
Univ. Hosp-Brooklyn	2562	1.37	1.62 *	2348	1.06	1.18 *	214	4.67	4.06
Univ. Hosp-SUNY Upstate	902	1.55	0.90	618	0.81	0.53	284	3.17	3.15
Univ. Hosp-Stony Brook	5233	1.36	0.98	4110	0.90	0.65	1123	3.03	3.32
Vassar Bros. Med Ctr	2021	0.64	0.59	1561	0.38	0.44	460	1.52	1.78
Westchester Med Ctr	3809	1.08	0.94	3258	0.52	0.49	551	4.36	3.65
Winthrop Univ. Hosp	3355	0.77	0.89	2997	0.50	0.52	358	3.07	3.59
<b>Statewide Total</b>	<b>160576</b>	<b>0.94</b>		<b>139739</b>	<b>0.59</b>		<b>20837</b>	<b>3.27</b>	

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

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

## 2007-2009 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 2007-2009 for cardiologists in each of the 57 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 2007-2009, and/or (b) performed at least one PCI in each of the years 2007-2009. 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 2007-2009.

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, 2007 - 2009 Discharges

	ALL CASES						NON-EMERGENCY	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Statewide Total</b>	<b>160576</b>	<b>1510</b>	<b>0.94</b>				<b>139739</b>	<b>0.59</b>
<b>Albany Medical Center Hospital</b>								
##Brady S	506	0	0.00	0.61	0.00	(0.00, 1.12)	438	0.00
##Delago A	1245	12	0.96	0.55	1.65	(0.85, 2.88)	1128	1.25
##Esper D	151	1	0.66	0.80	0.78	(0.01, 4.34)	119	0.00
#Hogan R	20	0	0.00	0.38	0.00	(0.00,45.21)	19	0.00
Houghton J	388	2	0.52	0.77	0.63	(0.07, 2.27)	317	0.51
#Macina A	66	2	3.03	1.98	1.44	(0.16, 5.20)	31	0.00
##Papaleo R	448	5	1.12	0.59	1.77	(0.57, 4.13)	416	0.72
#Papandrea L	32	1	3.13	2.34	1.25	(0.02, 6.98)	12	5.96
All Others	222	2	0.90	0.98	0.87	(0.10, 3.14)	196	1.13
<b>TOTAL</b>	<b>3078</b>	<b>25</b>	<b>0.81</b>	<b>0.68</b>	<b>1.12</b>	<b>(0.72, 1.65)</b>	<b>2676</b>	<b>0.85</b>
<b>Arnot-Ogden Medical Center</b>								
##Amin N	459	5	1.09	0.93	1.10	(0.35, 2.57)	333	0.45
#Clark V	5	0	0.00	0.34	0.00	(0.00,100.0)	4	0.00
#Grella R	305	7	2.30	1.04	2.07	(0.83, 4.26)	233	2.63 *
#Kodali S	5	1	20.00	4.77	3.94	(0.05,21.93)	2	0.00
##Laifer L	19	0	0.00	0.83	0.00	(0.00,21.79)	13	0.00
#McNulty P	16	0	0.00	0.66	0.00	(0.00,32.43)	14	0.00
#Menzies D	9	0	0.00	0.50	0.00	(0.00,76.90)	8	0.00
Winer H	224	3	1.34	1.34	0.94	(0.19, 2.75)	151	0.00
All Others	91	4	4.40	0.93	4.43 *	(1.19,11.35)	64	3.89
<b>TOTAL</b>	<b>1133</b>	<b>20</b>	<b>1.77</b>	<b>1.05</b>	<b>1.58 *</b>	<b>(0.97, 2.45)</b>	<b>822</b>	<b>1.30</b>

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Bellevue Hospital Center</b>								
#Attubato M	210	4	1.90	1.02	1.76	(0.47, 4.52)	195	1.38
#Babaev A	10	1	10.00	9.84	0.96	(0.01, 5.32)	3	0.00
#Feit F	203	1	0.49	0.82	0.57	(0.01, 3.16)	186	0.00
#Keller N	21	0	0.00	1.05	0.00	(0.00,15.61)	12	0.00
#Pena Sing I	542	9	1.66	1.22	1.28	(0.59, 2.44)	493	0.42
##Slater J	59	3	5.08	1.79	2.67	(0.54, 7.80)	42	0.00
##Yatskar L	312	4	1.28	0.72	1.68	(0.45, 4.30)	287	1.02
All Others	127	0	0.00	0.76	0.00	(0.00, 3.56)	120	0.00
<b>TOTAL</b>	<b>1484</b>	<b>22</b>	<b>1.48</b>	<b>1.07</b>	<b>1.30</b>	<b>(0.82, 1.98)</b>	<b>1338</b>	<b>0.61</b>
<b>Beth Israel Medical Center</b>								
##Aslam A	297	0	0.00	0.31	0.00	(0.00, 3.73)	296	0.00
##Bhambhani G	366	0	0.00	0.22	0.00	(0.00, 4.33)	366	0.00
#Fox J	1669	15	0.90	0.98	0.86	(0.48, 1.42)	1568	0.53
#Gowda R	1149	6	0.52	0.80	0.62	(0.22, 1.34)	1070	0.31
##Kantrowitz N	77	1	1.30	0.92	1.33	(0.02, 7.42)	76	0.00
##Kwan T	674	1	0.15	0.28	0.51	(0.01, 2.82)	671	0.34
##Lee P C	31	0	0.00	0.18	0.00	(0.00,61.91)	31	0.00
Patel R H	120	0	0.00	0.41	0.00	(0.00, 7.06)	120	0.00
##Punukollu G	135	0	0.00	0.29	0.00	(0.00, 8.87)	134	0.00
##Rentrop K	6	0	0.00	0.17	0.00	(0.00,100.0)	6	0.00
#Rosero H	289	0	0.00	0.76	0.00	(0.00, 1.58)	271	0.00
#Shaknovich A	2	0	0.00	0.34	0.00	(0.00,100.0)	2	0.00
All Others	46	0	0.00	0.57	0.00	(0.00,13.24)	39	0.00
<b>TOTAL</b>	<b>4861</b>	<b>23</b>	<b>0.47</b>	<b>0.68</b>	<b>0.65</b>	<b>(0.41, 0.98)</b>	<b>4650</b>	<b>0.36</b>
<b>Bronx-Lebanon Hospital Ctr Concourse Div</b>								
##Goldman A Y	20	2	10.00	2.59	3.63	(0.41,13.10)	.	.
#Shaqra H	23	1	4.35	3.47	1.18	(0.02, 6.55)	.	.
<b>TOTAL</b>	<b>43</b>	<b>3</b>	<b>6.98</b>	<b>3.06</b>	<b>2.14</b>	<b>(0.43, 6.26)</b>	.	.
<b>Brookdale Hospital Medical Center</b>								
#Castillo R	48	7	14.58	3.70	3.71 *	(1.48, 7.64)	.	.
#Chadow H	97	6	6.19	2.86	2.03	(0.74, 4.43)	34	0.00
##John S	3	0	0.00	2.46	0.00	(0.00,46.80)	.	.
<b>TOTAL</b>	<b>148</b>	<b>13</b>	<b>8.78</b>	<b>3.12</b>	<b>2.64 *</b>	<b>(1.41, 4.52)</b>	<b>34</b>	<b>0.00</b>
<b>Buffalo General Hospital</b>								
#Conley J	1330	11	0.83	0.61	1.27	(0.63, 2.27)	1288	0.76
#Corbelli J	8	0	0.00	1.99	0.00	(0.00,21.64)	.	.
#Farhi E	810	3	0.37	0.86	0.40	(0.08, 1.18)	728	0.37
##Haq N	8	0	0.00	3.15	0.00	(0.00,13.67)	.	.
#Masud A	202	1	0.50	0.60	0.77	(0.01, 4.28)	181	0.00
##Morris W	818	7	0.86	0.75	1.07	(0.43, 2.20)	760	0.82
##Phadke K	19	0	0.00	5.30	0.00	(0.00, 3.43)	3	0.00
##Sullivan P	82	1	1.22	0.84	1.37	(0.02, 7.61)	64	0.00
#Visco J	1103	7	0.63	0.32	1.85	(0.74, 3.81)	1070	1.54 *
All Others	80	1	1.25	1.84	0.64	(0.01, 3.55)	42	0.00
<b>TOTAL</b>	<b>4460</b>	<b>31</b>	<b>0.70</b>	<b>0.66</b>	<b>0.98</b>	<b>(0.67, 1.40)</b>	<b>4136</b>	<b>0.74</b>

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Champlain Valley Physicians Hospital</b>								
Bradley W	635	6	0.94	1.01	0.88	(0.32, 1.92)	482	0.70
Garrand T	516	1	0.19	1.03	0.18	(0.00, 0.99)	401	0.00
#Giambartolomei A	7	0	0.00	1.24	0.00	(0.00,39.80)	6	0.00
#Slotwiner A	6	0	0.00	3.39	0.00	(0.00,16.94)	1	0.00
All Others	145	0	0.00	1.06	0.00	(0.00, 2.24)	114	0.00
<b>TOTAL</b>	<b>1309</b>	<b>7</b>	<b>0.53</b>	<b>1.03</b>	<b>0.49</b>	<b>(0.20, 1.00)</b>	<b>1004</b>	<b>0.34</b>
<b>Crouse Hospital</b>								
##Amin N	34	0	0.00	1.16	0.00	(0.00, 8.75)	20	0.00
#Battaglia J	742	10	1.35	0.73	1.75	(0.84, 3.21)	637	1.54 *
#Bhan R	3	0	0.00	0.09	0.00	(0.00,100.0)	3	0.00
#EL-Khally Z	199	3	1.51	1.19	1.19	(0.24, 3.49)	162	1.11
##Ford T	117	2	1.71	1.23	1.30	(0.15, 4.71)	92	1.56
All Others	364	8	2.20	1.30	1.59	(0.69, 3.14)	293	1.15
<b>TOTAL</b>	<b>1459</b>	<b>23</b>	<b>1.58</b>	<b>0.98</b>	<b>1.51 *</b>	<b>(0.96, 2.27)</b>	<b>1207</b>	<b>1.37 *</b>
<b>Ellis Hospital</b>								
Cospito P	347	5	1.44	1.22	1.11	(0.36, 2.58)	243	1.28
#Dempsey S	74	0	0.00	0.64	0.00	(0.00, 7.24)	69	0.00
Jordan M	274	6	2.19	1.45	1.42	(0.52, 3.09)	155	3.38 *
#Kufs W	114	1	0.88	0.57	1.45	(0.02, 8.05)	108	0.97
Parkes R	509	8	1.57	1.36	1.09	(0.47, 2.15)	331	0.30
Weitz S	244	2	0.82	1.58	0.49	(0.05, 1.76)	136	0.00
<b>TOTAL</b>	<b>1562</b>	<b>22</b>	<b>1.41</b>	<b>1.29</b>	<b>1.03</b>	<b>(0.64, 1.56)</b>	<b>1042</b>	<b>0.83</b>
<b>Elmhurst Hospital Center</b>								
#Barman N	26	0	0.00	3.96	0.00	(0.00, 3.35)	.	.
#Kamran M	847	3	0.35	0.96	0.35	(0.07, 1.01)	638	0.24
#Kim M	31	1	3.23	2.98	1.02	(0.01, 5.67)	6	0.00
#Krishnan P	8	1	12.50	3.32	3.54	(0.05,19.68)	.	.
##Yatskar L	18	0	0.00	3.44	0.00	(0.00, 5.56)	.	.
<b>TOTAL</b>	<b>930</b>	<b>5</b>	<b>0.54</b>	<b>1.18</b>	<b>0.43</b>	<b>(0.14, 1.00)</b>	<b>644</b>	<b>0.24</b>
<b>Erie County Medical Center</b>								
Chaudhry E	153	4	2.61	0.85	2.90	(0.78, 7.44)	104	0.00
Dashkoff N	438	8	1.83	1.41	1.22	(0.53, 2.41)	274	1.10
##Emerson R	1	0	0.00	1.22	0.00	(0.00,100.0)	.	.
##Phadke K	5	0	0.00	1.75	0.00	(0.00,39.32)	3	0.00
Young H	53	3	5.66	4.21	1.26	(0.25, 3.69)	.	.
All Others	12	0	0.00	0.87	0.00	(0.00,33.21)	6	0.00
<b>TOTAL</b>	<b>662</b>	<b>15</b>	<b>2.27</b>	<b>1.49</b>	<b>1.43</b>	<b>(0.80, 2.35)</b>	<b>387</b>	<b>0.88</b>
<b>Faxton-St. Lukes Hlthcare- St.Lukes Div</b>								
#Kelberman M	7	1	14.29	2.42	5.55	(0.07,30.90)	.	.
#MacIsaac H	7	2	28.57	8.56	3.14	(0.35,11.34)	.	.
#Mathew T C	47	2	4.26	2.80	1.43	(0.16, 5.16)	.	.
#Nassif R	8	0	0.00	3.19	0.00	(0.00,13.50)	.	.
#Patel A	5	0	0.00	1.51	0.00	(0.00,45.54)	.	.
##Sassower M	4	0	0.00	2.11	0.00	(0.00,40.94)	.	.
#Varma P	5	0	0.00	1.68	0.00	(0.00,40.97)	.	.
<b>TOTAL</b>	<b>83</b>	<b>5</b>	<b>6.02</b>	<b>3.11</b>	<b>1.82</b>	<b>(0.59, 4.25)</b>	<b>.</b>	<b>.</b>

Table 3 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Glens Falls Hospital</b>								
Bashir I	384	6	1.56	0.95	1.55	(0.57, 3.37)	288	1.59
##Brady S	1	0	0.00	1.56	0.00	(0.00,100.0)	.	.
##Delago A	4	0	0.00	4.11	0.00	(0.00,20.99)	.	.
##Esper D	2	0	0.00	0.76	0.00	(0.00,100.0)	.	.
#Hogan R	464	7	1.51	0.87	1.62	(0.65, 3.34)	359	1.76
##Papaleo R	3	1	33.33	2.03	15.41	(0.20,85.72)	.	.
All Others	2	1	50.00	1.48	31.67	(0.41,100.0)	1	0.00
<b>TOTAL</b>	<b>860</b>	<b>15</b>	<b>1.74</b>	<b>0.93</b>	<b>1.77 *</b>	<b>(0.99, 2.92)</b>	<b>648</b>	<b>1.68</b>
<b>Good Samaritan Hosp Med Ctr- West Islip</b>								
##Caselnova R	298	4	1.34	0.70	1.80	(0.48, 4.61)	245	0.00
##Deutsch E	81	2	2.47	1.30	1.78	(0.20, 6.44)	50	3.23
##Hormozi S	228	3	1.32	0.87	1.43	(0.29, 4.18)	177	0.00
##Lee P J	253	4	1.58	0.96	1.55	(0.42, 3.97)	200	0.00
##Patel R B	94	1	1.06	1.43	0.70	(0.01, 3.90)	54	0.00
##Reich D	273	1	0.37	0.70	0.49	(0.01, 2.74)	215	1.04
<b>TOTAL</b>	<b>1227</b>	<b>15</b>	<b>1.22</b>	<b>0.88</b>	<b>1.31</b>	<b>(0.73, 2.16)</b>	<b>941</b>	<b>0.44</b>
<b>Good Samaritan Hospital - Suffern</b>								
Agarwal A	60	4	6.67	1.72	3.64 *	(0.98, 9.32)	34	1.70
Brogno D	534	5	0.94	0.97	0.91	(0.29, 2.12)	464	0.46
Hirsch C	268	7	2.61	0.97	2.54 *	(1.02, 5.24)	235	1.93
Innerfield M	217	4	1.84	1.06	1.63	(0.44, 4.18)	156	1.40
Kernis S	493	13	2.64	1.31	1.90 *	(1.01, 3.24)	360	0.60
#Kovar L	467	3	0.64	1.07	0.56	(0.11, 1.65)	383	0.46
Shih A C	221	7	3.17	1.40	2.13	(0.85, 4.39)	152	1.85
All Others	77	0	0.00	0.30	0.00	(0.00,15.13)	76	0.00
<b>TOTAL</b>	<b>2337</b>	<b>43</b>	<b>1.84</b>	<b>1.11</b>	<b>1.56 *</b>	<b>(1.13, 2.11)</b>	<b>1860</b>	<b>0.85</b>
<b>Huntington Hospital</b>								
##Bagga R	53	0	0.00	2.79	0.00	(0.00, 2.33)	.	.
##Caselnova R	12	0	0.00	1.53	0.00	(0.00,18.75)	.	.
##Jauhar R	1	0	0.00	2.71	0.00	(0.00,100.0)	.	.
##Patcha R	46	0	0.00	2.31	0.00	(0.00, 3.24)	.	.
##Schwartz R	7	0	0.00	2.13	0.00	(0.00,23.09)	.	.
##Strizik B	70	3	4.29	2.65	1.52	(0.31, 4.45)	.	.
All Others	8	0	0.00	1.90	0.00	(0.00,22.71)	.	.
<b>TOTAL</b>	<b>197</b>	<b>3</b>	<b>1.52</b>	<b>2.49</b>	<b>0.57</b>	<b>(0.12, 1.68)</b>	.	.
<b>Jamaica Hospital Medical Center</b>								
#Garratt K	3	0	0.00	5.85	0.00	(0.00,19.64)	.	.
#Jain S	110	5	4.55	4.41	0.97	(0.31, 2.26)	.	.
#Lasic Z	120	4	3.33	3.04	1.03	(0.28, 2.64)	.	.
##Parikh M	5	0	0.00	2.14	0.00	(0.00,32.20)	.	.
#Puma A	9	0	0.00	1.71	0.00	(0.00,22.42)	.	.
#Raza J	40	2	5.00	5.32	0.88	(0.10, 3.19)	.	.
#Reimers C	2	0	0.00	1.16	0.00	(0.00,100.0)	.	.
#Soffer D	19	0	0.00	1.67	0.00	(0.00,10.87)	.	.
##Stathopoulos I	2	0	0.00	10.21	0.00	(0.00,16.89)	.	.
##Suleman J	2	1	50.00	1.34	35.09	(0.46,100.0)	.	.
#Wilentz J	3	0	0.00	1.49	0.00	(0.00,77.26)	.	.
#Yang Y	9	0	0.00	1.91	0.00	(0.00,20.08)	.	.
All Others	17	1	5.88	1.84	3.00	(0.04,16.71)	.	.
<b>TOTAL</b>	<b>341</b>	<b>13</b>	<b>3.81</b>	<b>3.57</b>	<b>1.01</b>	<b>(0.53, 1.72)</b>	.	.

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Lenox Hill Hospital</b>								
##Chang J	3	0	0.00	0.14	0.00	(0.00,100.0)	3	0.00
Cohen H	565	5	0.88	0.58	1.42	(0.46, 3.32)	531	0.75
##Dominguez-Echevarria A	414	3	0.72	0.67	1.01	(0.20, 2.95)	413	0.68
##Fernaine G	391	1	0.26	0.60	0.40	(0.01, 2.25)	382	0.00
#Garratt K	589	2	0.34	0.65	0.49	(0.05, 1.76)	549	0.21
##Geizhals M	5	0	0.00	0.34	0.00	(0.00,100.0)	5	0.00
#Gustafson G	34	0	0.00	0.67	0.00	(0.00,15.05)	34	0.00
Iyer S	260	1	0.38	0.60	0.60	(0.01, 3.33)	243	0.64
#Jain S	412	7	1.70	0.75	2.14	(0.86, 4.41)	396	1.63 *
##Jayasundera T	359	1	0.28	0.39	0.68	(0.01, 3.77)	357	0.46
##Kesanakurthy S	377	1	0.27	0.41	0.61	(0.01, 3.39)	370	0.43
#Lasic Z	463	3	0.65	0.64	0.95	(0.19, 2.77)	451	0.50
Oboler L	17	0	0.00	0.31	0.00	(0.00,66.15)	17	0.00
#Palkhiwala S	127	0	0.00	0.24	0.00	(0.00,11.53)	127	0.00
##Papadakos S	254	2	0.79	0.42	1.77	(0.20, 6.41)	252	1.10
##Parikh M	904	5	0.55	0.54	0.96	(0.31, 2.25)	882	0.54
#Puma A	472	2	0.42	0.45	0.88	(0.10, 3.17)	458	0.63
#Raza J	185	0	0.00	1.01	0.00	(0.00, 1.84)	178	0.00
#Reimers C	1046	5	0.48	0.66	0.68	(0.22, 1.59)	1011	0.45
Roubin G	279	0	0.00	0.55	0.00	(0.00, 2.24)	268	0.00
Ruiz C	124	4	3.23	1.76	1.72	(0.46, 4.40)	105	1.86
#Soffer D	335	2	0.60	0.44	1.29	(0.14, 4.65)	323	1.01
##Stathopoulos I	17	0	0.00	0.26	0.00	(0.00,77.55)	17	0.00
#Wilentz J	262	1	0.38	0.64	0.56	(0.01, 3.11)	250	0.00
#Yang Y	437	1	0.23	0.54	0.40	(0.01, 2.21)	417	0.28
Zaric M	140	2	1.43	0.93	1.44	(0.16, 5.19)	128	0.00
All Others	233	0	0.00	0.71	0.00	(0.00, 2.09)	224	0.00
<b>TOTAL</b>	<b>8704</b>	<b>48</b>	<b>0.55</b>	<b>0.60</b>	<b>0.86</b>	<b>(0.63, 1.14)</b>	<b>8391</b>	<b>0.50</b>
<b>Long Island College Hospital</b>								
##Aslam A	11	0	0.00	0.24	0.00	(0.00,100.0)	11	0.00
#Coven D	8	1	12.50	1.57	7.47	(0.10,41.55)	.	.
#Fox J	1	0	0.00	0.13	0.00	(0.00,100.0)	1	0.00
#Gowda R	86	3	3.49	1.03	3.17	(0.64, 9.27)	71	1.37
##Kantrowitz N	232	4	1.72	1.99	0.81	(0.22, 2.09)	136	0.00
##Kesanakurthy S	3	0	0.00	0.95	0.00	(0.00,100.0)	3	0.00
#Rosero H	6	0	0.00	2.47	0.00	(0.00,23.26)	4	0.00
#Srivastava S	10	1	10.00	1.63	5.76	(0.08,32.05)	7	20.66
<b>TOTAL</b>	<b>357</b>	<b>9</b>	<b>2.52</b>	<b>1.68</b>	<b>1.41</b>	<b>(0.64, 2.68)</b>	<b>233</b>	<b>1.13</b>
<b>Long Island Jewish Medical Center</b>								
##Arkonac B	294	2	0.68	1.24	0.52	(0.06, 1.87)	247	0.00
##Bagga R	192	1	0.52	0.57	0.86	(0.01, 4.80)	188	0.66
#Boutis L	22	1	4.55	2.95	1.45	(0.02, 8.06)	3	0.00
#Dhama B	188	0	0.00	0.67	0.00	(0.00, 2.73)	182	0.00
##Freeman J	1	0	0.00	7.39	0.00	(0.00,46.65)	1	0.00
##Friedman G H	281	0	0.00	0.67	0.00	(0.00, 1.84)	261	0.00
#Green S	26	0	0.00	2.82	0.00	(0.00, 4.70)	3	0.00
##Grunwald A	318	2	0.63	0.77	0.77	(0.09, 2.79)	297	0.69
##Gupta R	60	0	0.00	1.00	0.00	(0.00, 5.76)	57	0.00
Hameedi A	384	0	0.00	0.17	0.00	(0.00, 5.26)	383	0.00
##Jauhar R	1397	12	0.86	0.74	1.10	(0.57, 1.91)	1218	0.67

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Long Island Jewish Medical Center, <i>continued</i></b>								
#Kaplan B	1514	4	0.26	0.80	0.31 **	(0.08, 0.79)	1376	0.23
##Katz S	23	0	0.00	2.08	0.00	(0.00, 7.22)	8	0.00
##Kim B	97	0	0.00	0.22	0.00	(0.00,16.32)	97	0.00
##Koss J	346	4	1.16	0.83	1.31	(0.35, 3.35)	325	0.96
#Lee A	20	1	5.00	3.45	1.36	(0.02, 7.59)	3	0.00
##Lee P J	4	0	0.00	0.27	0.00	(0.00,100.0)	4	0.00
#Marchant D	20	0	0.00	3.18	0.00	(0.00, 5.42)	3	0.00
#Musso J	5	0	0.00	0.30	0.00	(0.00,100.0)	5	0.00
#Ong L Y	20	0	0.00	4.36	0.00	(0.00, 3.96)	1	0.00
##Park C	349	4	1.15	1.19	0.90	(0.24, 2.32)	282	0.56
##Reich D	20	0	0.00	0.35	0.00	(0.00,49.05)	20	0.00
#Rutkin B	12	0	0.00	5.07	0.00	(0.00, 5.67)	1	0.00
##Strizik B	34	0	0.00	1.47	0.00	(0.00, 6.89)	29	0.00
##Suleman J	14	0	0.00	0.69	0.00	(0.00,35.87)	14	0.00
All Others	1	0	0.00	0.06	0.00	(0.00,100.0)	1	0.00
<b>TOTAL</b>	<b>5642</b>	<b>31</b>	<b>0.55</b>	<b>0.83</b>	<b>0.62 **</b>	<b>(0.42, 0.89)</b>	<b>5009</b>	<b>0.39</b>
<b>Lutheran Medical Center</b>								
##Fernaine G	15	0	0.00	2.86	0.00	(0.00, 8.04)	.	.
##Hoyek W	3	0	0.00	4.52	0.00	(0.00,25.47)	.	.
##Lee P C	6	0	0.00	1.98	0.00	(0.00,29.10)	1	0.00
##Pyo R	1	0	0.00	0.70	0.00	(0.00,100.0)	.	.
<b>TOTAL</b>	<b>25</b>	<b>0</b>	<b>0.00</b>	<b>2.76</b>	<b>0.00</b>	<b>(0.00, 5.00)</b>	<b>1</b>	<b>0.00</b>
<b>M I Bassett Hospital</b>								
#Clark V	239	4	1.67	1.06	1.48	(0.40, 3.78)	176	2.14
##Laifer L	26	0	0.00	1.84	0.00	(0.00, 7.20)	18	0.00
#McNulty P	275	5	1.82	1.13	1.51	(0.49, 3.52)	211	0.00
#Menzies D	428	3	0.70	0.86	0.77	(0.15, 2.24)	341	0.77
<b>TOTAL</b>	<b>968</b>	<b>12</b>	<b>1.24</b>	<b>1.01</b>	<b>1.15</b>	<b>(0.59, 2.01)</b>	<b>746</b>	<b>0.85</b>
<b>Maimonides Medical Center</b>								
Borgen E	867	11	1.27	1.72	0.69	(0.35, 1.24)	701	0.51
Frankel R	723	7	0.97	0.97	0.94	(0.38, 1.94)	672	0.64
Friedman M	308	4	1.30	2.10	0.58	(0.16, 1.49)	205	0.00
##Kantrowitz N	96	0	0.00	0.91	0.00	(0.00, 3.96)	96	0.00
Malik B	956	8	0.84	1.41	0.56	(0.24, 1.10)	787	0.35
#Shani J	675	6	0.89	0.94	0.89	(0.32, 1.93)	658	0.57
All Others	260	1	0.38	2.05	0.18	(0.00, 0.98)	158	0.00
<b>TOTAL</b>	<b>3885</b>	<b>37</b>	<b>0.95</b>	<b>1.40</b>	<b>0.64 **</b>	<b>(0.45, 0.88)</b>	<b>3277</b>	<b>0.43</b>
<b>Mercy Hospital</b>								
#Calandra S	358	2	0.56	1.22	0.43	(0.05, 1.55)	279	0.00
##Emerson R	278	6	2.16	1.71	1.19	(0.43, 2.58)	167	0.41
#Gelormini J	405	8	1.98	1.37	1.36	(0.58, 2.67)	297	1.33
##Haq N	221	1	0.45	0.89	0.48	(0.01, 2.67)	183	0.00
#Meltser H	401	11	2.74	2.12	1.22	(0.61, 2.18)	282	0.00
##Morris W	104	0	0.00	1.04	0.00	(0.00, 3.19)	85	0.00
##Sullivan P	6	0	0.00	2.65	0.00	(0.00,21.73)	3	0.00
<b>TOTAL</b>	<b>1773</b>	<b>28</b>	<b>1.58</b>	<b>1.49</b>	<b>1.00</b>	<b>(0.66, 1.44)</b>	<b>1296</b>	<b>0.38</b>



Table 3 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Millard Fillmore Hospital</b>								
#Calandra S	67	0	0.00	0.65	0.00	(0.00, 7.97)	64	0.00
#Conley J	3	0	0.00	1.88	0.00	(0.00,61.10)	.	.
#Corbelli J	859	9	1.05	0.81	1.22	(0.55, 2.31)	783	0.60
##Emerson R	3	0	0.00	0.11	0.00	(0.00,100.0)	3	0.00
#Farhi E	5	0	0.00	3.85	0.00	(0.00,17.94)	.	.
#Gelormini J	137	0	0.00	0.84	0.00	(0.00, 2.98)	128	0.00
##Haq N	125	1	0.80	0.67	1.12	(0.01, 6.23)	102	1.33
#Masud A	545	2	0.37	0.81	0.42	(0.05, 1.53)	507	0.00
#Meltser H	3	0	0.00	0.53	0.00	(0.00,100.0)	3	0.00
##Morris W	7	1	14.29	4.04	3.33	(0.04,18.51)	.	.
##Phadke K	993	8	0.81	0.88	0.87	(0.37, 1.70)	858	0.70
##Sullivan P	4	0	0.00	2.03	0.00	(0.00,42.49)	2	0.00
#Visco J	1	0	0.00	1.30	0.00	(0.00,100.0)	.	.
All Others	68	0	0.00	1.70	0.00	(0.00, 2.98)	49	0.00
<b>TOTAL</b>	<b>2820</b>	<b>21</b>	<b>0.74</b>	<b>0.86</b>	<b>0.81</b>	<b>(0.50, 1.24)</b>	<b>2499</b>	<b>0.47</b>
<b>Montefiore Medical Center - Moses</b>								
##Goldman A Y	182	2	1.10	0.62	1.66	(0.19, 6.00)	177	0.66
Greenberg M	685	2	0.29	0.95	0.29	(0.03, 1.04)	546	0.00
#Grose R	83	1	1.20	1.00	1.13	(0.01, 6.28)	69	0.00
#Johnson M	190	1	0.53	0.76	0.66	(0.01, 3.65)	162	0.00
#Menegus M	780	10	1.28	1.20	1.00	(0.48, 1.84)	602	0.64
##Pyo R	10	0	0.00	0.22	0.00	(0.00,100.0)	10	0.00
#Sehhat K	63	0	0.00	0.67	0.00	(0.00, 8.20)	58	0.00
#Shaqra H	228	0	0.00	0.58	0.00	(0.00, 2.61)	207	0.00
#Srinivas V	3	0	0.00	1.23	0.00	(0.00,93.29)	2	0.00
All Others	217	2	0.92	1.06	0.82	(0.09, 2.96)	170	0.73
<b>TOTAL</b>	<b>2441</b>	<b>18</b>	<b>0.74</b>	<b>0.96</b>	<b>0.72</b>	<b>(0.43, 1.14)</b>	<b>2003</b>	<b>0.35</b>
<b>Montefiore Medical Center - Weiler</b>								
#Gotsis W	675	10	1.48	0.56	2.51 *	(1.20, 4.61)	616	1.87 *
Monrad E	553	9	1.63	0.82	1.86	(0.85, 3.53)	454	0.64
#Silverman G	427	4	0.94	0.62	1.43	(0.38, 3.66)	360	1.23
Sokol S	299	6	2.01	0.72	2.62 *	(0.96, 5.71)	256	2.62 *
#Srinivas V	515	6	1.17	0.70	1.56	(0.57, 3.39)	447	1.23
<b>TOTAL</b>	<b>2469</b>	<b>35</b>	<b>1.42</b>	<b>0.68</b>	<b>1.97 *</b>	<b>(1.37, 2.74)</b>	<b>2133</b>	<b>1.37 *</b>
<b>Mount Sinai Hospital</b>								
#Barman N	437	5	1.14	1.65	0.65	(0.21, 1.52)	374	0.45
##Fernaine G	234	0	0.00	0.56	0.00	(0.00, 2.63)	234	0.00
#Hasan C	194	0	0.00	0.32	0.00	(0.00, 5.60)	194	0.00
##Jayasundera T	118	1	0.85	0.61	1.31	(0.02, 7.27)	113	1.27
#Kamran M	110	1	0.91	0.37	2.29	(0.03,12.73)	110	1.58
##Kesanakurthy S	51	0	0.00	0.24	0.00	(0.00,27.76)	51	0.00
#Kim M	1780	14	0.79	0.97	0.77	(0.42, 1.29)	1705	0.42
Kini A	2998	14	0.47	0.73	0.60	(0.33, 1.01)	2872	0.43
#Krishnan P	493	2	0.41	0.82	0.47	(0.05, 1.68)	464	0.48
Lee J	114	0	0.00	0.28	0.00	(0.00,10.67)	113	0.00
##Lee P C	226	2	0.88	0.30	2.75	(0.31, 9.92)	226	1.91
Moreno P	1404	5	0.36	0.73	0.46	(0.15, 1.07)	1362	0.41
#Palkhiwala S	529	3	0.57	0.53	1.00	(0.20, 2.92)	529	0.62
##Pyo R	186	0	0.00	0.37	0.00	(0.00, 5.02)	186	0.00

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Mount Sinai Hospital, <i>continued</i></b>								
Sharma S	3916	18	0.46	0.69	0.63	(0.37, 0.99)	3888	0.40
#Simon C	21	1	4.76	1.34	3.34	(0.04,18.60)	21	2.48
##Suleman J	1028	7	0.68	0.74	0.86	(0.35, 1.78)	1015	0.66
##Weinberger J	2	0	0.00	0.32	0.00	(0.00,100.0)	2	0.00
All Others	152	1	0.66	0.80	0.77	(0.01, 4.30)	143	0.00
<b>TOTAL</b>	<b>13993</b>	<b>74</b>	<b>0.53</b>	<b>0.75</b>	<b>0.67 **</b>	<b>(0.52, 0.84)</b>	<b>13602</b>	<b>0.45 **</b>
<b>NY Hospital Medical Ctr of Queens</b>								
##Chang J	480	6	1.25	0.97	1.21	(0.44, 2.64)	421	0.82
Chiu Sungwai	119	0	0.00	0.30	0.00	(0.00, 9.65)	118	0.00
David M	134	1	0.75	0.26	2.73	(0.04,15.19)	133	1.80
##Friedman G H	36	1	2.78	1.84	1.42	(0.02, 7.88)	28	0.00
##Geizhals M	196	2	1.02	0.97	0.99	(0.11, 3.57)	170	0.00
##Grunwald A	47	0	0.00	0.67	0.00	(0.00,10.90)	36	0.00
##Gupta R	17	0	0.00	1.68	0.00	(0.00,12.06)	17	0.00
#Gustafson G	506	6	1.19	0.75	1.49	(0.54, 3.23)	460	1.12
##Kim B	3	0	0.00	0.12	0.00	(0.00,100.0)	3	0.00
##Koss J	32	1	3.13	1.67	1.76	(0.02, 9.79)	20	0.00
##Papadakos S	638	7	1.10	1.24	0.83	(0.33, 1.71)	546	0.64
##Park C	242	0	0.00	0.87	0.00	(0.00, 1.64)	184	0.00
##Park J	14	0	0.00	0.53	0.00	(0.00,46.66)	11	0.00
#Perry-Bottinger L	9	0	0.00	0.31	0.00	(0.00,100.0)	9	0.00
##Stathopoulos I	57	4	7.02	3.67	1.80	(0.48, 4.61)	39	1.67
All Others	146	3	2.05	1.11	1.75	(0.35, 5.10)	121	3.20
<b>TOTAL</b>	<b>2676</b>	<b>31</b>	<b>1.16</b>	<b>1.00</b>	<b>1.09</b>	<b>(0.74, 1.55)</b>	<b>2316</b>	<b>0.77</b>
<b>NY Methodist Hospital</b>								
#Afflu E	37	0	0.00	0.28	0.00	(0.00,33.65)	37	0.00
##Aslam A	63	0	0.00	0.31	0.00	(0.00,17.82)	62	0.00
#Badero O	150	0	0.00	0.36	0.00	(0.00, 6.33)	150	0.00
##Bhambhani G	6	0	0.00	0.27	0.00	(0.00,100.0)	6	0.00
Brener S	485	11	2.27	1.77	1.20	(0.60, 2.15)	405	0.72
#Chokshi A	177	1	0.56	0.41	1.29	(0.02, 7.15)	177	0.78
##Dominguez-Echeva	71	0	0.00	0.44	0.00	(0.00,11.14)	71	0.00
##Hoyek W	368	2	0.54	0.45	1.13	(0.13, 4.10)	366	0.64
#Jasty B	7	0	0.00	1.44	0.00	(0.00,34.31)	7	0.00
##John S	12	0	0.00	0.58	0.00	(0.00,49.37)	12	0.00
##Kesanakurthy S	1	0	0.00	0.17	0.00	(0.00,100.0)	1	0.00
##Kokolis S	4	0	0.00	0.15	0.00	(0.00,100.0)	4	0.00
Palta S	113	0	0.00	0.32	0.00	(0.00, 9.55)	113	0.00
##Punukollu G	18	0	0.00	0.34	0.00	(0.00,56.47)	18	0.00
#Rouvelas P	203	3	1.48	0.66	2.10	(0.42, 6.13)	202	1.26
Sacchi T	1324	8	0.60	0.84	0.67	(0.29, 1.33)	1213	0.30
#Shaknovich A	326	0	0.00	0.59	0.00	(0.00, 1.81)	323	0.00
#Sherman W	20	0	0.00	0.22	0.00	(0.00,77.63)	20	0.00
#Vidyarthi V	15	0	0.00	0.76	0.00	(0.00,30.31)	15	0.00
Wikramanayake T	192	4	2.08	1.41	1.39	(0.37, 3.56)	182	0.97
All Others	101	1	0.99	0.70	1.34	(0.02, 7.45)	98	1.04
<b>TOTAL</b>	<b>3693</b>	<b>30</b>	<b>0.81</b>	<b>0.83</b>	<b>0.92</b>	<b>(0.62, 1.31)</b>	<b>3482</b>	<b>0.51</b>

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>NYP Hospital - Columbia Presbyterian</b>								
Apfelbaum M	114	0	0.00	0.74	0.00	(0.00, 4.11)	96	0.00
Collins M	659	10	1.52	1.24	1.15	(0.55, 2.11)	635	0.71
Dangas G	501	5	1.00	1.18	0.79	(0.26, 1.85)	449	0.91
##Dominguez-Echeva	33	0	0.00	0.77	0.00	(0.00,13.59)	33	0.00
Gray W	96	5	5.21	2.29	2.14	(0.69, 4.99)	72	1.92
#Grose R	259	0	0.00	0.54	0.00	(0.00, 2.48)	252	0.00
Irobunda C	93	0	0.00	0.56	0.00	(0.00, 6.64)	92	0.00
#Johnson M	161	1	0.62	0.51	1.13	(0.01, 6.31)	157	0.74
##Kesanakurthy S	843	9	1.07	0.80	1.26	(0.57, 2.39)	835	0.83
Kirtane A	358	6	1.68	1.03	1.54	(0.56, 3.34)	330	1.13
#Kodali S	429	9	2.10	1.18	1.67	(0.76, 3.16)	386	1.38 *
#Kovar L	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
Kreps E	197	3	1.52	1.70	0.84	(0.17, 2.46)	180	0.92
##Laifer L	25	0	0.00	0.31	0.00	(0.00,44.36)	25	0.00
Leon M	184	3	1.63	0.60	2.55	(0.51, 7.44)	181	1.12
Mehran R	204	0	0.00	1.32	0.00	(0.00, 1.28)	181	0.00
Moses J	1754	8	0.46	0.56	0.77	(0.33, 1.52)	1753	0.50
#Moussa I	147	1	0.68	0.93	0.69	(0.01, 3.81)	138	0.80
#Perry-Bottinger L	69	2	2.90	0.65	4.22	(0.47,15.22)	69	2.80
Rabbani L	566	2	0.35	0.83	0.40	(0.05, 1.45)	520	0.00
#Sherman W	220	1	0.45	1.23	0.35	(0.00, 1.94)	193	0.00
Singh V	1154	3	0.26	0.54	0.46	(0.09, 1.33)	1133	0.42
Stone G	69	0	0.00	0.92	0.00	(0.00, 5.44)	68	0.00
Teirstein P	27	1	3.70	0.92	3.78	(0.05,21.03)	25	2.37
##Weinberger J	3	0	0.00	0.11	0.00	(0.00,100.0)	3	0.00
Weisz G	331	3	0.91	1.20	0.71	(0.14, 2.08)	282	0.00
Williams M	179	6	3.35	1.89	1.67	(0.61, 3.63)	156	1.35
All Others	65	1	1.54	2.21	0.65	(0.01, 3.64)	60	0.00
<b>TOTAL</b>	<b>8741</b>	<b>79</b>	<b>0.90</b>	<b>0.89</b>	<b>0.96</b>	<b>(0.76, 1.19)</b>	<b>8305</b>	<b>0.66</b>
<b>NYP Hospital - Weill Cornell</b>								
Bergman G	861	8	0.93	1.15	0.76	(0.33, 1.49)	772	0.72
#Charney R	303	2	0.66	0.90	0.69	(0.08, 2.49)	296	0.54
Feldman D	320	3	0.94	1.38	0.64	(0.13, 1.87)	264	0.46
##Geizhals M	54	0	0.00	0.71	0.00	(0.00, 9.00)	53	0.00
Iacovone F	111	3	2.70	0.90	2.82	(0.57, 8.23)	107	1.95
##Kesanakurthy S	70	0	0.00	0.46	0.00	(0.00,10.74)	70	0.00
#Messinger D	184	2	1.09	1.09	0.94	(0.11, 3.38)	175	0.43
Minutello R	817	6	0.73	1.29	0.54	(0.20, 1.17)	684	0.65
#Moussa I	258	7	2.71	2.33	1.10	(0.44, 2.26)	213	0.57
#Padmanabhan V	21	0	0.00	0.50	0.00	(0.00,32.74)	21	0.00
##Parikh M	218	0	0.00	0.60	0.00	(0.00, 2.62)	203	0.00
#Slotwiner A	165	4	2.42	1.56	1.46	(0.39, 3.73)	129	1.56
Wong S	867	9	1.04	0.95	1.03	(0.47, 1.95)	800	0.80
All Others	140	3	2.14	1.96	1.03	(0.21, 3.01)	99	0.53
<b>TOTAL</b>	<b>4389</b>	<b>47</b>	<b>1.07</b>	<b>1.19</b>	<b>0.85</b>	<b>(0.62, 1.12)</b>	<b>3886</b>	<b>0.66</b>
<b>NYU Hospitals Center</b>								
#Attubato M	868	2	0.23	0.81	0.27	(0.03, 0.96)	826	0.11
#Babaev A	480	1	0.21	0.49	0.40	(0.01, 2.21)	472	0.30
#Feit F	625	2	0.32	0.58	0.52	(0.06, 1.86)	584	0.00
##Jayasundera T	288	0	0.00	0.27	0.00	(0.00, 4.47)	288	0.00

Table 3 *continued*

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>NYU Hospitals Center, <i>continued</i></b>								
#Keller N	11	1	9.09	5.03	1.70	(0.02, 9.45)	.	.
##Kokolis S	9	0	0.00	0.21	0.00	(0.00,100.0)	9	0.00
#Kurian D	1	0	0.00	1.21	0.00	(0.00,100.0)	1	0.00
##Kwan T	18	0	0.00	0.20	0.00	(0.00,95.11)	18	0.00
#Pena Sing I	122	0	0.00	0.68	0.00	(0.00, 4.14)	108	0.00
##Rentrop K	8	0	0.00	0.19	0.00	(0.00,100.0)	8	0.00
#Shani J	1	0	0.00	0.13	0.00	(0.00,100.0)	1	0.00
##Slater J	252	2	0.79	0.90	0.83	(0.09, 3.00)	227	0.51
#Staniloae C	2	0	0.00	0.10	0.00	(0.00,100.0)	2	0.00
##Stathopoulos I	2	0	0.00	0.27	0.00	(0.00,100.0)	2	0.00
##Weinberger J	9	0	0.00	0.57	0.00	(0.00,67.23)	9	0.00
##Yatskar L	102	0	0.00	0.68	0.00	(0.00, 4.95)	92	0.00
All Others	18	0	0.00	0.20	0.00	(0.00,97.04)	17	0.00
<b>TOTAL</b>	<b>2816</b>	<b>8</b>	<b>0.28</b>	<b>0.65</b>	<b>0.41 **</b>	<b>(0.18, 0.81)</b>	<b>2664</b>	<b>0.14 **</b>
<b>North Shore University Hospital</b>								
#Angelopoulos P	4	0	0.00	0.32	0.00	(0.00,100.0)	4	0.00
##Arkonac B	27	1	3.70	3.05	1.14	(0.01, 6.36)	4	0.00
##Bagga R	75	0	0.00	0.39	0.00	(0.00,11.78)	71	0.00
##Blumenthal S	14	0	0.00	0.48	0.00	(0.00,51.65)	14	0.00
#Boutis L	480	2	0.42	1.57	0.25 **	(0.03, 0.90)	330	0.52
##Caselnova R	274	2	0.73	0.82	0.84	(0.09, 3.02)	263	0.75
##Deutsch E	141	2	1.42	0.59	2.28	(0.26, 8.22)	138	1.56
#Dhama B	148	0	0.00	0.70	0.00	(0.00, 3.33)	140	0.00
##Freeman J	13	0	0.00	0.57	0.00	(0.00,46.50)	12	0.00
##Friedman G H	108	1	0.93	0.84	1.03	(0.01, 5.74)	100	0.00
##Gambino A	66	0	0.00	0.33	0.00	(0.00,16.03)	65	0.00
#Green S	533	4	0.75	1.32	0.53	(0.14, 1.37)	424	0.71
##Grunwald A	81	2	2.47	0.53	4.39	(0.49,15.84)	77	3.69
##Hormozi S	174	1	0.57	0.67	0.81	(0.01, 4.49)	169	0.60
##Jauhar R	30	0	0.00	1.93	0.00	(0.00, 5.97)	2	0.00
#Kaplan B	33	1	3.03	2.66	1.07	(0.01, 5.96)	2	0.00
##Katz S	545	2	0.37	1.09	0.32	(0.04, 1.15)	453	0.00
##Kim B	18	0	0.00	0.34	0.00	(0.00,56.17)	18	0.00
##Koss J	92	0	0.00	0.87	0.00	(0.00, 4.30)	78	0.00
##Lederman S	58	0	0.00	0.33	0.00	(0.00,17.83)	58	0.00
#Lee A	572	10	1.75	1.30	1.26	(0.60, 2.32)	459	0.82
##Lee P J	180	2	1.11	0.86	1.21	(0.14, 4.37)	175	1.04
#Marchant D	257	0	0.00	1.28	0.00	(0.00, 1.05)	200	0.00
#Musso J	7	0	0.00	1.69	0.00	(0.00,29.10)	7	0.00
#Ong L Y	798	4	0.50	0.82	0.57	(0.15, 1.47)	703	0.55
#Padmanabhan V	117	1	0.85	0.36	2.23	(0.03,12.39)	114	0.00
##Park C	26	1	3.85	4.23	0.85	(0.01, 4.75)	3	0.00
##Park J	46	0	0.00	0.34	0.00	(0.00,22.17)	46	0.00
##Patcha R	274	2	0.73	0.56	1.24	(0.14, 4.46)	270	0.42
##Patel R B	30	0	0.00	0.50	0.00	(0.00,22.78)	30	0.00
##Rehman A	14	0	0.00	1.45	0.00	(0.00,17.03)	14	0.00
##Reich D	189	0	0.00	0.54	0.00	(0.00, 3.40)	187	0.00
##Rosenband M	8	0	0.00	0.19	0.00	(0.00,100.0)	8	0.00
#Rutkin B	309	4	1.29	1.18	1.03	(0.28, 2.63)	219	1.07
##Sassower M	8	0	0.00	0.27	0.00	(0.00,100.0)	8	0.00
##Schwartz R	151	0	0.00	0.64	0.00	(0.00, 3.57)	149	0.00

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>North Shore University Hospital, continued</b>								
##Strizik B	434	4	0.92	0.75	1.15	(0.31, 2.95)	407	0.93
#Wachsmann D	118	0	0.00	0.67	0.00	(0.00, 4.39)	106	0.00
#Witkes D	128	2	1.56	0.54	2.70	(0.30, 9.74)	125	1.98
##Zisfein J	13	1	7.69	0.60	12.03	(0.16,66.91)	13	7.59
All Others	186	4	2.15	0.72	2.82	(0.76, 7.21)	179	1.90
<b>TOTAL</b>	<b>6779</b>	<b>53</b>	<b>0.78</b>	<b>0.97</b>	<b>0.76</b>	<b>(0.57, 1.00)</b>	<b>5844</b>	<b>0.63</b>
<b>Orange Regional Medical Ctr - Middletown</b>								
#Gotsis W	87	2	2.30	2.63	0.82	(0.09, 2.97)	.	.
#Menegus M	1	0	0.00	7.34	0.00	(0.00,47.01)	.	.
#Silverman G	79	1	1.27	2.82	0.42	(0.01, 2.35)	.	.
All Others	28	2	7.14	2.41	2.79	(0.31,10.06)	2	15.45
<b>TOTAL</b>	<b>195</b>	<b>5</b>	<b>2.56</b>	<b>2.70</b>	<b>0.89</b>	<b>(0.29, 2.08)</b>	<b>2</b>	<b>15.45</b>
<b>Rochester General Hospital</b>								
Berlowitz M	480	3	0.63	0.89	0.66	(0.13, 1.93)	356	0.26
#Chockalingam S	337	8	2.37	1.09	2.04	(0.88, 4.02)	285	1.37
##Doling M	4	0	0.00	0.32	0.00	(0.00,100.0)	4	0.00
Fitzpatrick P	345	9	2.61	1.15	2.12 *	(0.97, 4.03)	228	0.45
Gacioch G	357	2	0.56	1.27	0.41	(0.05, 1.49)	258	0.00
Mathew T M	704	8	1.14	0.74	1.44	(0.62, 2.83)	667	1.01
#Ong L S	2236	18	0.81	0.76	1.00	(0.59, 1.58)	2078	0.63
#Patel T	455	5	1.10	1.20	0.86	(0.28, 2.00)	436	0.49
Scortichini D	227	2	0.88	0.48	1.73	(0.19, 6.26)	219	1.21
#Stuver T	911	15	1.65	1.02	1.51	(0.85, 2.49)	723	1.15
<b>TOTAL</b>	<b>6056</b>	<b>70</b>	<b>1.16</b>	<b>0.90</b>	<b>1.21</b>	<b>(0.94, 1.52)</b>	<b>5254</b>	<b>0.71</b>
<b>SVCMC - St. Vincents<sup>1</sup></b>								
##Aslam A <sup>1</sup>	8	0	0.00	0.15	0.00	(0.00,100.0)	8	0.00
##Bhambhani G <sup>1</sup>	613	2	0.33	0.22	1.39	(0.16, 5.03)	612	0.50
#Chokshi A	76	0	0.00	0.35	0.00	(0.00,13.06)	75	0.00
Coppola J <sup>1</sup>	217	3	1.38	0.71	1.82	(0.37, 5.33)	191	0.88
##Dominguez-Echevarria <sup>1</sup>	60	0	0.00	0.33	0.00	(0.00,17.27)	60	0.00
##Gupta R <sup>1</sup>	55	0	0.00	0.60	0.00	(0.00,10.42)	50	0.00
#Hasan C <sup>1</sup>	88	0	0.00	0.42	0.00	(0.00, 9.23)	87	0.00
#Kurian D <sup>1</sup>	183	0	0.00	0.53	0.00	(0.00, 3.57)	166	0.00
##Kwan T <sup>1</sup>	120	0	0.00	0.25	0.00	(0.00,11.37)	119	0.00
##Punukollu G	4	0	0.00	0.20	0.00	(0.00,100.0)	4	0.00
##Rentrop K <sup>1</sup>	12	0	0.00	0.11	0.00	(0.00,100.0)	12	0.00
#Sehhat K <sup>1</sup>	42	1	2.38	0.35	6.42	(0.08,35.74)	40	5.25
#Srivastava S <sup>1</sup>	71	2	2.82	0.51	5.19	(0.58,18.73)	69	4.52
#Staniloae C <sup>1</sup>	266	5	1.88	0.47	3.75 *	(1.21, 8.75)	234	2.37
#Vidyarthi V	61	0	0.00	0.27	0.00	(0.00,20.93)	61	0.00
All Others	267	2	0.75	0.51	1.37	(0.15, 4.94)	243	0.68
<b>TOTAL</b>	<b>2143</b>	<b>15</b>	<b>0.70</b>	<b>0.40</b>	<b>1.63</b>	<b>(0.91, 2.68)</b>	<b>2031</b>	<b>0.89</b>
<b>South Nassau Communities Hospital</b>								
#Berke A	7	1	14.29	7.03	1.91	(0.02,10.64)	.	.
##Blumenthal S	1	0	0.00	0.36	0.00	(0.00,100.0)	.	.
##Freeman J	750	12	1.60	1.49	1.01	(0.52, 1.77)	529	1.20
#Lituchy A	13	0	0.00	1.70	0.00	(0.00,15.56)	5	0.00
#Petrossian G	73	3	4.11	1.51	2.55	(0.51, 7.46)	67	2.23

Table 3 *continued*

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>South Nassau Communities Hospital, <i>continued</i></b>								
##Rehman A	14	1	7.14	3.11	2.16	(0.03,12.02)	6	0.00
##Zisfein J	379	3	0.79	1.06	0.71	(0.14, 2.06)	326	0.46
<b>TOTAL</b>	<b>1237</b>	<b>20</b>	<b>1.62</b>	<b>1.41</b>	<b>1.08</b>	<b>(0.66, 1.67)</b>	<b>933</b>	<b>1.00</b>
<b>Southside Hospital</b>								
##Caselnova R	40	0	0.00	2.27	0.00	(0.00, 3.80)	15	0.00
##Deutsch E	462	4	0.87	0.47	1.72	(0.46, 4.40)	434	1.17
##Hormozi S	121	0	0.00	0.92	0.00	(0.00, 3.10)	90	0.00
##Katz S	14	0	0.00	0.17	0.00	(0.00,100.0)	14	0.00
##Lee P J	382	3	0.79	0.51	1.46	(0.29, 4.26)	347	0.61
##Patel R B	369	1	0.27	0.51	0.50	(0.01, 2.77)	325	0.00
##Reich D	305	4	1.31	0.68	1.83	(0.49, 4.67)	265	2.05
<b>TOTAL</b>	<b>1693</b>	<b>12</b>	<b>0.71</b>	<b>0.60</b>	<b>1.12</b>	<b>(0.58, 1.95)</b>	<b>1490</b>	<b>0.87</b>
<b>St. Catherine of Siena Hospital</b>								
##Deutsch E	11	0	0.00	1.05	0.00	(0.00,29.97)	2	0.00
##Hormozi S	24	0	0.00	1.84	0.00	(0.00, 7.82)	1	0.00
#Khan S	12	0	0.00	3.04	0.00	(0.00, 9.45)	.	.
#Madrid A	7	0	0.00	2.87	0.00	(0.00,17.18)	.	.
##Patel R B	30	0	0.00	2.30	0.00	(0.00, 4.99)	.	.
##Rosenband M	15	0	0.00	2.00	0.00	(0.00,11.48)	2	0.00
#Tsiamtsiouris T	11	0	0.00	2.73	0.00	(0.00,11.49)	.	.
#Weinstein J	3	0	0.00	1.47	0.00	(0.00,78.24)	.	.
All Others	1	0	0.00	1.68	0.00	(0.00,100.0)	.	.
<b>TOTAL</b>	<b>114</b>	<b>0</b>	<b>0.00</b>	<b>2.17</b>	<b>0.00</b>	<b>(0.00, 1.39)</b>	<b>5</b>	<b>0.00</b>
<b>St. Elizabeth Medical Center</b>								
#Kelberman M	575	5	0.87	0.78	1.04	(0.34, 2.44)	521	0.90
#MacIsaac H	784	5	0.64	1.20	0.50	(0.16, 1.17)	677	0.24
#Mathew T C	622	9	1.45	0.92	1.48	(0.67, 2.80)	560	1.48
#Nassif R	345	4	1.16	0.87	1.25	(0.34, 3.20)	308	0.89
#Patel A	389	4	1.03	0.93	1.04	(0.28, 2.67)	328	0.71
##Sassower M	463	7	1.51	1.19	1.20	(0.48, 2.47)	411	0.77
#Varma P	491	7	1.43	0.97	1.38	(0.55, 2.85)	429	1.20
<b>TOTAL</b>	<b>3669</b>	<b>41</b>	<b>1.12</b>	<b>1.00</b>	<b>1.06</b>	<b>(0.76, 1.43)</b>	<b>3234</b>	<b>0.83</b>
<b>St. Francis Hospital</b>								
Abittan M	327	0	0.00	1.06	0.00	(0.00, 1.00)	309	0.00
##Arkonac B	145	4	2.76	1.50	1.73	(0.46, 4.42)	125	0.78
#Berke A	350	3	0.86	1.65	0.49	(0.10, 1.43)	324	0.44
##Chang J	15	0	0.00	0.17	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	237	5	2.11	1.08	1.83	(0.59, 4.28)	215	0.86
##Friedman G H	92	2	2.17	1.08	1.89	(0.21, 6.83)	83	0.97
##Gambino A	23	1	4.35	0.77	5.33	(0.07,29.63)	23	3.70
Goldman A B	132	0	0.00	1.66	0.00	(0.00, 1.57)	119	0.00
##Grunwald A	44	0	0.00	0.59	0.00	(0.00,13.36)	36	0.00
Gulotta R	226	4	1.77	1.33	1.25	(0.34, 3.21)	212	0.70
##Koss J	43	1	2.33	2.08	1.05	(0.01, 5.84)	35	0.00
##Lee P J	48	0	0.00	0.84	0.00	(0.00, 8.58)	48	0.00
#Lituchy A	546	2	0.37	0.96	0.36	(0.04, 1.30)	507	0.00 **
#Madrid A	228	1	0.44	0.88	0.47	(0.01, 2.60)	200	0.47

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>St. Francis Hospital, continued</b>								
Minadeo J	299	3	1.00	1.36	0.69	(0.14, 2.03)	253	0.55
Oruci E	241	0	0.00	0.85	0.00	(0.00, 1.68)	235	0.00
##Papadakos S	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
Pappas T	273	0	0.00	0.79	0.00	(0.00, 1.59)	258	0.00
##Patcha R	5	0	0.00	0.33	0.00	(0.00,100.0)	5	0.00
##Petrossian G	1278	10	0.78	1.03	0.71	(0.34, 1.31)	1218	0.40
##Rehman A	674	3	0.45	0.99	0.42	(0.08, 1.23)	606	0.38
##Reich D	29	0	0.00	0.80	0.00	(0.00,14.84)	29	0.00
##Schwartz R	16	0	0.00	1.37	0.00	(0.00,15.71)	16	0.00
Shlofmitz R	2564	11	0.43	0.66	0.62	(0.31, 1.10)	2504	0.37
#Tsiamtsiouris T	482	6	1.24	1.31	0.89	(0.33, 1.94)	442	0.41
Venditto J	234	3	1.28	1.24	0.98	(0.20, 2.85)	217	0.00
#Wachsman D	5	0	0.00	0.20	0.00	(0.00,100.0)	5	0.00
##Zisfein J	84	0	0.00	0.95	0.00	(0.00, 4.31)	84	0.00
All Others	60	2	3.33	1.56	2.01	(0.23, 7.26)	49	2.19
<b>TOTAL</b>	<b>8703</b>	<b>61</b>	<b>0.70</b>	<b>0.98</b>	<b>0.67 **</b>	<b>(0.51, 0.86)</b>	<b>8175</b>	<b>0.37 **</b>
<b>St. Josephs Hospital</b>								
##Amin N	32	0	0.00	0.72	0.00	(0.00,14.91)	25	0.00
#Bhan R	467	4	0.86	0.83	0.97	(0.26, 2.49)	413	0.73
Caputo R	1124	7	0.62	1.10	0.53	(0.21, 1.09)	946	0.20
#EL-Khally Z	545	6	1.10	1.07	0.97	(0.35, 2.10)	492	0.69
Fischi M	852	7	0.82	1.04	0.74	(0.30, 1.53)	695	0.57
##Ford T	106	1	0.94	0.80	1.11	(0.01, 6.15)	89	1.26
#Giambartolomei A	385	8	2.08	1.41	1.38	(0.60, 2.72)	293	0.85
Iskander A	643	13	2.02	1.37	1.39	(0.74, 2.37)	519	0.94
O'Hern M	306	5	1.63	1.10	1.40	(0.45, 3.27)	274	0.63
Reger M	369	3	0.81	0.86	0.89	(0.18, 2.60)	305	0.83
Simons A	716	9	1.26	0.97	1.22	(0.56, 2.31)	565	0.72
Walford G	392	1	0.26	1.10	0.22	(0.00, 1.21)	301	0.33
All Others	127	0	0.00	0.29	0.00	(0.00, 9.45)	127	0.00
<b>TOTAL</b>	<b>6064</b>	<b>64</b>	<b>1.06</b>	<b>1.06</b>	<b>0.93</b>	<b>(0.72, 1.19)</b>	<b>5044</b>	<b>0.62</b>
<b>St. Lukes Cornwall Hospital - Newburgh</b>								
#Hadid A	12	1	8.33	5.37	1.46	(0.02, 8.12)	.	.
#Hadid A B	12	0	0.00	7.44	0.00	(0.00, 3.86)	.	.
#Jafar M	2	0	0.00	1.17	0.00	(0.00,100.0)	.	.
#Shah N	10	1	10.00	4.05	2.32	(0.03,12.92)	.	.
All Others	2	0	0.00	1.45	0.00	(0.00,100.0)	.	.
<b>TOTAL</b>	<b>38</b>	<b>2</b>	<b>5.26</b>	<b>5.25</b>	<b>0.94</b>	<b>(0.11, 3.41)</b>	.	.
<b>St. Lukes Roosevelt Hospital-St. Lukes</b>								
#Coven D	214	2	0.93	1.16	0.76	(0.09, 2.75)	168	0.00
##Goldman A Y	42	0	0.00	0.25	0.00	(0.00,32.30)	42	0.00
Hong M	331	3	0.91	1.11	0.77	(0.15, 2.25)	272	0.41
Leber R	229	1	0.44	0.97	0.42	(0.01, 2.36)	188	0.00
Palazzo A	133	1	0.75	1.24	0.57	(0.01, 3.16)	106	0.00
#Simon C	380	4	1.05	2.09	0.47	(0.13, 1.21)	324	0.25
##Slater J	34	0	0.00	0.62	0.00	(0.00,16.35)	33	0.00
Tamis-Holland J	146	5	3.42	2.12	1.52	(0.49, 3.54)	108	0.97
<b>TOTAL</b>	<b>1509</b>	<b>16</b>	<b>1.06</b>	<b>1.42</b>	<b>0.70</b>	<b>(0.40, 1.14)</b>	<b>1241</b>	<b>0.24</b>

Table 3 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>St. Peters Hospital</b>								
Bishop G	347	6	1.73	0.99	1.65	(0.60, 3.59)	230	0.50
##Brady S	59	0	0.00	0.76	0.00	(0.00, 7.73)	51	0.00
##Delago A	30	0	0.00	2.10	0.00	(0.00, 5.48)	13	0.00
#Dempsey S	2	0	0.00	0.53	0.00	(0.00,100.0)	1	0.00
Desantis J	113	1	0.88	0.68	1.22	(0.02, 6.77)	84	2.36
##Esper D	318	2	0.63	0.82	0.72	(0.08, 2.60)	293	0.34
#Kufs W	61	0	0.00	0.46	0.00	(0.00,12.35)	58	0.00
#Macina A	3	0	0.00	2.28	0.00	(0.00,50.48)	.	.
Martinelli M	611	12	1.96	0.82	2.25 *	(1.16, 3.94)	490	1.59 *
##Papaleo R	20	0	0.00	0.45	0.00	(0.00,38.43)	13	0.00
#Papandrea L	211	3	1.42	0.58	2.30	(0.46, 6.71)	190	1.57
Roccario E	596	8	1.34	1.06	1.19	(0.51, 2.35)	430	0.95
All Others	97	3	3.09	1.66	1.75	(0.35, 5.12)	67	0.00
<b>TOTAL</b>	<b>2468</b>	<b>35</b>	<b>1.42</b>	<b>0.91</b>	<b>1.46 *</b>	<b>(1.02, 2.04)</b>	<b>1920</b>	<b>0.97</b>
<b>Staten Island University Hospital- North</b>								
Baldari D	361	3	0.83	1.03	0.76	(0.15, 2.22)	306	0.55
Duvvuri S	328	1	0.30	0.66	0.43	(0.01, 2.41)	297	0.33
Farid A	281	0	0.00	0.41	0.00	(0.00, 3.00)	267	0.00
##Hoyek W	149	1	0.67	0.89	0.71	(0.01, 3.95)	127	0.00
Malpeso J	300	0	0.00	0.76	0.00	(0.00, 1.52)	245	0.00
McCord D	506	3	0.59	0.76	0.73	(0.15, 2.15)	448	0.00
Mohan R	31	0	0.00	0.51	0.00	(0.00,21.89)	30	0.00
#Rouvelas P	14	0	0.00	0.47	0.00	(0.00,52.46)	14	0.00
Snyder S	202	4	1.98	0.92	2.02	(0.54, 5.18)	164	1.07
Swamy S	249	2	0.80	0.48	1.58	(0.18, 5.70)	244	1.06
Tamburrino F	514	3	0.58	0.91	0.60	(0.12, 1.76)	441	0.38
Vazzana T	82	0	0.00	0.49	0.00	(0.00, 8.66)	78	0.00
Warchol A	127	1	0.79	1.08	0.68	(0.01, 3.80)	97	0.00
All Others	257	0	0.00	0.77	0.00	(0.00, 1.73)	207	0.00
<b>TOTAL</b>	<b>3401</b>	<b>18</b>	<b>0.53</b>	<b>0.77</b>	<b>0.65</b>	<b>(0.38, 1.02)</b>	<b>2965</b>	<b>0.36</b>
<b>Strong Memorial Hospital</b>								
Cove C	552	13	2.36	1.14	1.95 *	(1.04, 3.33)	418	1.78 *
##Doling M	751	11	1.46	0.83	1.67	(0.83, 2.99)	614	0.82
Garringer J	185	3	1.62	0.70	2.19	(0.44, 6.39)	156	1.79
Gassler J	644	5	0.78	0.91	0.80	(0.26, 1.87)	491	0.75
#Ling F	520	5	0.96	1.17	0.77	(0.25, 1.81)	393	0.47
#Narins C	749	14	1.87	1.06	1.66	(0.91, 2.79)	575	1.56 *
Pomerantz R	214	3	1.40	0.86	1.53	(0.31, 4.46)	131	1.32
All Others	18	0	0.00	0.92	0.00	(0.00,20.80)	15	0.00
<b>TOTAL</b>	<b>3633</b>	<b>54</b>	<b>1.49</b>	<b>0.98</b>	<b>1.43 *</b>	<b>(1.07, 1.86)</b>	<b>2793</b>	<b>1.14 *</b>
<b>United Health Services - Wilson Hospital</b>								
Ahmed O	304	0	0.00	0.97	0.00	(0.00, 1.17)	231	0.00
Jamal N	514	3	0.58	0.93	0.59	(0.12, 1.73)	445	0.49
Kashou H	522	5	0.96	1.02	0.88	(0.28, 2.05)	365	0.64
Rehman A U	301	4	1.33	1.69	0.74	(0.20, 1.89)	216	0.59
Stamato N	304	0	0.00	1.03	0.00	(0.00, 1.10)	228	0.00
Traverse P	420	3	0.71	1.06	0.63	(0.13, 1.85)	345	0.33
<b>TOTAL</b>	<b>2365</b>	<b>15</b>	<b>0.63</b>	<b>1.09</b>	<b>0.55 **</b>	<b>(0.31, 0.90)</b>	<b>1830</b>	<b>0.40</b>



Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Unity Hospital</b>								
#Chockalingam S	14	0	0.00	0.95	0.00	(0.00,26.03)	8	0.00
##Doling M	40	0	0.00	0.21	0.00	(0.00,40.29)	39	0.00
#Ling F	43	1	2.33	0.30	7.18	(0.09,39.96)	40	0.00
#Narins C	40	0	0.00	0.36	0.00	(0.00,24.23)	39	0.00
#Ong L S	10	0	0.00	0.99	0.00	(0.00,34.67)	6	0.00
#Patel T	908	17	1.87	1.28	1.37	(0.80, 2.20)	717	1.09
#Stuver T	6	0	0.00	1.35	0.00	(0.00,42.74)	5	0.00
<b>TOTAL</b>	<b>1061</b>	<b>18</b>	<b>1.70</b>	<b>1.16</b>	<b>1.37</b>	<b>(0.81, 2.17)</b>	<b>854</b>	<b>0.95</b>
<b>University Hospital - Brooklyn</b>								
#Afflu E	6	0	0.00	0.85	0.00	(0.00,67.46)	6	0.00
#Badero O	17	0	0.00	0.45	0.00	(0.00,44.89)	17	0.00
#Castillo R	257	1	0.39	0.82	0.45	(0.01, 2.49)	232	0.47
Cavusoglu E	542	4	0.74	0.81	0.86	(0.23, 2.19)	491	0.24
Chadi R	13	0	0.00	0.43	0.00	(0.00,61.82)	13	0.00
#Chadow H	228	5	2.19	0.82	2.51	(0.81, 5.87)	209	2.10 *
Feit A	423	4	0.95	0.61	1.47	(0.39, 3.75)	391	0.86
#Jasty B	208	4	1.92	0.44	4.10 *	(1.10,10.49)	206	2.94 *
##Jayasundera T	8	0	0.00	3.08	0.00	(0.00,13.99)	.	.
##John S	283	5	1.77	0.74	2.25	(0.72, 5.24)	272	1.79
##Kokolis S	10	0	0.00	0.50	0.00	(0.00,69.25)	10	0.00
Marmur J	556	12	2.16	1.00	2.03 *	(1.05, 3.54)	499	1.31
All Others	11	0	0.00	2.65	0.00	(0.00,11.85)	2	0.00
<b>TOTAL</b>	<b>2562</b>	<b>35</b>	<b>1.37</b>	<b>0.79</b>	<b>1.62 *</b>	<b>(1.13, 2.26)</b>	<b>2348</b>	<b>1.18 *</b>
<b>University Hospital - SUNY Upstate</b>								
#Battaglia J	5	1	20.00	1.61	11.70	(0.15,65.09)	4	9.48
##Ford T	43	1	2.33	2.18	1.00	(0.01, 5.58)	29	0.00
Kozman H	283	5	1.77	2.12	0.78	(0.25, 1.83)	152	0.00
Siddiqui D	436	5	1.15	1.39	0.78	(0.25, 1.81)	321	0.39
All Others	135	2	1.48	1.21	1.15	(0.13, 4.14)	112	1.33
<b>TOTAL</b>	<b>902</b>	<b>14</b>	<b>1.55</b>	<b>1.63</b>	<b>0.90</b>	<b>(0.49, 1.50)</b>	<b>618</b>	<b>0.53</b>
<b>University Hospital - Stony Brook</b>								
Chernilas J	415	8	1.93	1.83	0.99	(0.43, 1.95)	243	1.40
Dervan J	402	1	0.25	0.62	0.38	(0.00, 2.11)	390	0.25
#Grella R	231	2	0.87	0.77	1.05	(0.12, 3.80)	209	0.82
Gruberg L	553	12	2.17	1.87	1.09	(0.56, 1.91)	357	0.41
Jeremias A	571	12	2.10	1.90	1.04	(0.54, 1.82)	352	1.12
Joseph S	94	0	0.00	0.68	0.00	(0.00, 5.38)	85	0.00
#Khan S	317	1	0.32	0.77	0.39	(0.01, 2.15)	313	0.26
Korlipara G	280	0	0.00	0.54	0.00	(0.00, 2.28)	270	0.00
Lawson W	572	13	2.27	1.44	1.49	(0.79, 2.54)	376	0.86
##Lederman S	214	2	0.93	0.86	1.02	(0.11, 3.69)	199	0.76
Mani A	557	13	2.33	1.90	1.15	(0.61, 1.97)	356	0.91
##Rosenband M	381	3	0.79	1.05	0.70	(0.14, 2.06)	369	0.68
#Weinstein J	398	2	0.50	0.88	0.54	(0.06, 1.95)	370	0.41
All Others	248	2	0.81	0.81	0.93	(0.10, 3.36)	221	0.38
<b>TOTAL</b>	<b>5233</b>	<b>71</b>	<b>1.36</b>	<b>1.30</b>	<b>0.98</b>	<b>(0.77, 1.24)</b>	<b>4110</b>	<b>0.65</b>

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Vassar Brothers Medical Center</b>								
Gorwara S	417	1	0.24	1.28	0.18	(0.00, 0.98)	304	0.00
#Jafar M	683	6	0.88	1.07	0.77	(0.28, 1.67)	546	0.78
Kantaros L	270	1	0.37	0.75	0.47	(0.01, 2.59)	194	0.00
#Shah N	205	0	0.00	0.68	0.00	(0.00, 2.48)	189	0.00
Yen M	370	5	1.35	1.15	1.10	(0.36, 2.57)	265	0.93
All Others	76	0	0.00	0.52	0.00	(0.00, 8.68)	63	0.00
<b>TOTAL</b>	<b>2021</b>	<b>13</b>	<b>0.64</b>	<b>1.03</b>	<b>0.59</b>	<b>(0.31, 1.01)</b>	<b>1561</b>	<b>0.44</b>
<b>Westchester Medical Center</b>								
#Charney R	63	1	1.59	0.60	2.50	(0.03,13.94)	61	0.00
Cohen M B	223	2	0.90	1.21	0.69	(0.08, 2.51)	170	0.53
#Hadid A	253	0	0.00	0.56	0.00	(0.00, 2.43)	250	0.00
#Hadid A B	121	1	0.83	0.68	1.15	(0.02, 6.39)	103	1.12
Hjemdahl-Monsen C	780	6	0.77	1.20	0.60	(0.22, 1.31)	668	0.13
Kalapatapu K	1187	15	1.26	1.10	1.08	(0.61, 1.79)	1026	0.66
#Messinger D	38	0	0.00	0.75	0.00	(0.00,12.06)	37	0.00
Pucillo A	444	6	1.35	0.73	1.75	(0.64, 3.80)	394	1.27
Sorbera C	303	5	1.65	1.27	1.23	(0.40, 2.86)	230	0.44
All Others	397	5	1.26	1.46	0.81	(0.26, 1.90)	319	0.29
<b>TOTAL</b>	<b>3809</b>	<b>41</b>	<b>1.08</b>	<b>1.07</b>	<b>0.94</b>	<b>(0.68, 1.28)</b>	<b>3258</b>	<b>0.49</b>
<b>Winthrop University Hospital</b>								
#Angelopoulos P	127	0	0.00	1.22	0.00	(0.00, 2.23)	93	0.00
##Blumenthal S	94	0	0.00	0.67	0.00	(0.00, 5.52)	86	0.00
##Caselnova R	287	4	1.39	0.96	1.37	(0.37, 3.49)	267	1.00
##Deutsch E	5	0	0.00	0.60	0.00	(0.00,100.0)	5	0.00
##Gambino A	522	2	0.38	0.66	0.55	(0.06, 1.97)	482	0.43
##Hormozi S	39	0	0.00	0.73	0.00	(0.00,12.07)	38	0.00
##Lederman S	6	0	0.00	0.64	0.00	(0.00,89.89)	6	0.00
##Lee P J	3	0	0.00	0.82	0.00	(0.00,100.0)	3	0.00
Marzo K	324	2	0.62	0.59	0.98	(0.11, 3.54)	279	1.11
Naidu S	433	7	1.62	1.18	1.29	(0.52, 2.65)	355	0.68
##Park J	96	0	0.00	0.46	0.00	(0.00, 7.82)	86	0.00
##Sassower M	219	1	0.46	1.07	0.40	(0.01, 2.23)	198	0.00
##Schwartz R	881	5	0.57	0.68	0.79	(0.25, 1.84)	811	0.29
#Witkes D	173	1	0.58	0.72	0.75	(0.01, 4.18)	164	0.61
All Others	146	4	2.74	1.18	2.19	(0.59, 5.60)	124	1.30
<b>TOTAL</b>	<b>3355</b>	<b>26</b>	<b>0.77</b>	<b>0.82</b>	<b>0.89</b>	<b>(0.58, 1.30)</b>	<b>2997</b>	<b>0.52</b>
<b>Statewide Total</b>	<b>160576</b>	<b>1510</b>	<b>0.94</b>				<b>139739</b>	<b>0.59</b>

<sup>1</sup> 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 Cardiologists Practicing at More Than One Hospital, 2007-2009

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Afflu E</b>	<b>43</b>	<b>0</b>	<b>0.00</b>	<b>0.36</b>	<b>0.00</b>	<b>(0.00,22.45)</b>	<b>43</b>	<b>0.00</b>
NY Methodist Hospital	37	0	0.00	0.28	0.00	(0.00,33.65)	37	0.00
Univ.Hosp-Brooklyn	6	0	0.00	0.85	0.00	(0.00,67.46)	6	0.00
<b>Amin N</b>	<b>525</b>	<b>5</b>	<b>0.95</b>	<b>0.93</b>	<b>0.96</b>	<b>(0.31, 2.24)</b>	<b>378</b>	<b>0.41</b>
Arnot Ogden Med Ctr	459	5	1.09	0.93	1.10	(0.35, 2.57)	333	0.45
Crouse Hospital	34	0	0.00	1.16	0.00	(0.00, 8.75)	20	0.00
St. Josephs Hospital	32	0	0.00	0.72	0.00	(0.00,14.91)	25	0.00
<b>Angelopoulos P</b>	<b>131</b>	<b>0</b>	<b>0.00</b>	<b>1.19</b>	<b>0.00</b>	<b>(0.00, 2.21)</b>	<b>97</b>	<b>0.00</b>
North Shore Univ Hosp	4	0	0.00	0.32	0.00	(0.00,100.0)	4	0.00
Winthrop Univ. Hosp	127	0	0.00	1.22	0.00	(0.00, 2.23)	93	0.00
<b>Arkonac B</b>	<b>466</b>	<b>7</b>	<b>1.50</b>	<b>1.42</b>	<b>0.99</b>	<b>(0.40, 2.04)</b>	<b>376</b>	<b>0.31</b>
LIJ Medical Center	294	2	0.68	1.24	0.52	(0.06, 1.87)	247	0.00
North Shore Univ Hosp	27	1	3.70	3.05	1.14	(0.01, 6.36)	4	0.00
St. Francis Hospital	145	4	2.76	1.50	1.73	(0.46, 4.42)	125	0.78
<b>Aslam A<sup>1</sup></b>	<b>379</b>	<b>0</b>	<b>0.00</b>	<b>0.31</b>	<b>0.00</b>	<b>(0.00, 2.98)</b>	<b>377</b>	<b>0.00</b>
Beth Israel Med Ctr	297	0	0.00	0.31	0.00	(0.00, 3.73)	296	0.00
Long Island Coll. Hosp	11	0	0.00	0.24	0.00	(0.00,100.0)	11	0.00
NY Methodist Hospital	63	0	0.00	0.31	0.00	(0.00,17.82)	62	0.00
SVMC- St. Vincents	8	0	0.00	0.15	0.00	(0.00,100.0)	8	0.00
<b>Attubato M</b>	<b>1078</b>	<b>6</b>	<b>0.56</b>	<b>0.85</b>	<b>0.61</b>	<b>(0.22, 1.33)</b>	<b>1021</b>	<b>0.36</b>
Bellevue Hospital Ctr	210	4	1.90	1.02	1.76	(0.47, 4.52)	195	1.38
NYU Hospitals Center	868	2	0.23	0.81	0.27	(0.03, 0.96)	826	0.11
<b>Babaev A</b>	<b>490</b>	<b>2</b>	<b>0.41</b>	<b>0.68</b>	<b>0.56</b>	<b>(0.06, 2.02)</b>	<b>475</b>	<b>0.30</b>
Bellevue Hospital Ctr	10	1	10.00	9.84	0.96	(0.01, 5.32)	3	0.00
NYU Hospitals Center	480	1	0.21	0.49	0.40	(0.01, 2.21)	472	0.30
<b>Badero O</b>	<b>167</b>	<b>0</b>	<b>0.00</b>	<b>0.37</b>	<b>0.00</b>	<b>(0.00, 5.55)</b>	<b>167</b>	<b>0.00</b>
NY Methodist Hospital	150	0	0.00	0.36	0.00	(0.00, 6.33)	150	0.00
Univ.Hosp-Brooklyn	17	0	0.00	0.45	0.00	(0.00,44.89)	17	0.00
<b>Bagga R</b>	<b>320</b>	<b>1</b>	<b>0.31</b>	<b>0.89</b>	<b>0.33</b>	<b>(0.00, 1.83)</b>	<b>259</b>	<b>0.53</b>
Huntington Hospital	53	0	0.00	2.79	0.00	(0.00, 2.33)	.	.
LIJ Medical Center	192	1	0.52	0.57	0.86	(0.01, 4.80)	188	0.66
North Shore Univ Hosp	75	0	0.00	0.39	0.00	(0.00,11.78)	71	0.00
<b>Barman N</b>	<b>463</b>	<b>5</b>	<b>1.08</b>	<b>1.78</b>	<b>0.57</b>	<b>(0.18, 1.33)</b>	<b>374</b>	<b>0.45</b>
Elmhurst Hospital Ctr	26	0	0.00	3.96	0.00	(0.00, 3.35)	.	.
Mount Sinai Hospital	437	5	1.14	1.65	0.65	(0.21, 1.52)	374	0.45
<b>Battaglia J</b>	<b>747</b>	<b>11</b>	<b>1.47</b>	<b>0.73</b>	<b>1.89 *</b>	<b>(0.94, 3.39)</b>	<b>641</b>	<b>1.72 *</b>
Crouse Hospital	742	10	1.35	0.73	1.75	(0.84, 3.21)	637	1.54 *
Univ.Hosp-SUNY Upstate	5	1	20.00	1.61	11.70	(0.15,65.09)	4	9.48
<b>Berke A</b>	<b>357</b>	<b>4</b>	<b>1.12</b>	<b>1.76</b>	<b>0.60</b>	<b>(0.16, 1.54)</b>	<b>324</b>	<b>0.44</b>
South Nassau Comm.Hosp	7	1	14.29	7.03	1.91	(0.02,10.64)	.	.
St. Francis Hospital	350	3	0.86	1.65	0.49	(0.10, 1.43)	324	0.44

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Bhambhani G<sup>1</sup></b>	<b>985</b>	<b>2</b>	<b>0.20</b>	<b>0.22</b>	<b>0.87</b>	<b>(0.10, 3.14)</b>	<b>984</b>	<b>0.31</b>
Beth Israel Med Ctr	366	0	0.00	0.22	0.00	(0.00, 4.33)	366	0.00
NY Methodist Hospital	6	0	0.00	0.27	0.00	(0.00,100.0)	6	0.00
SVCMC- St. Vincents	613	2	0.33	0.22	1.39	(0.16, 5.03)	612	0.50
<b>Bhan R</b>	<b>470</b>	<b>4</b>	<b>0.85</b>	<b>0.82</b>	<b>0.97</b>	<b>(0.26, 2.49)</b>	<b>416</b>	<b>0.73</b>
Crouse Hospital	3	0	0.00	0.09	0.00	(0.00,100.0)	3	0.00
St. Josephs Hospital	467	4	0.86	0.83	0.97	(0.26, 2.49)	413	0.73
<b>Blumenthal S</b>	<b>109</b>	<b>0</b>	<b>0.00</b>	<b>0.64</b>	<b>0.00</b>	<b>(0.00, 4.96)</b>	<b>100</b>	<b>0.00</b>
North Shore Univ Hosp	14	0	0.00	0.48	0.00	(0.00,51.65)	14	0.00
South Nassau Comm.Hosp	1	0	0.00	0.36	0.00	(0.00,100.0)	.	.
Winthrop Univ. Hosp	94	0	0.00	0.67	0.00	(0.00, 5.52)	86	0.00
<b>Boutis L</b>	<b>502</b>	<b>3</b>	<b>0.60</b>	<b>1.63</b>	<b>0.34</b>	<b>(0.07, 1.01)</b>	<b>333</b>	<b>0.51</b>
LIJ Medical Center	22	1	4.55	2.95	1.45	(0.02, 8.06)	3	0.00
North Shore Univ Hosp	480	2	0.42	1.57	0.25 **	(0.03, 0.90)	330	0.52
<b>Brady S</b>	<b>566</b>	<b>0</b>	<b>0.00</b>	<b>0.63</b>	<b>0.00</b>	<b>(0.00, 0.97)</b>	<b>489</b>	<b>0.00</b>
Albany Medical Center	506	0	0.00	0.61	0.00	(0.00, 1.12)	438	0.00
Glens Falls Hospital	1	0	0.00	1.56	0.00	(0.00,100.0)	.	.
St. Peters Hospital	59	0	0.00	0.76	0.00	(0.00, 7.73)	51	0.00
<b>Calandra S</b>	<b>425</b>	<b>2</b>	<b>0.47</b>	<b>1.13</b>	<b>0.39</b>	<b>(0.04, 1.41)</b>	<b>343</b>	<b>0.00</b>
Mercy Hospital	358	2	0.56	1.22	0.43	(0.05, 1.55)	279	0.00
Millard Fillmore Hosp	67	0	0.00	0.65	0.00	(0.00, 7.97)	64	0.00
<b>Caselnova R</b>	<b>911</b>	<b>10</b>	<b>1.10</b>	<b>0.90</b>	<b>1.15</b>	<b>(0.55, 2.11)</b>	<b>790</b>	<b>0.71</b>
Good Sam - West Islip	298	4	1.34	0.70	1.80	(0.48, 4.61)	245	0.00
Huntington Hospital	12	0	0.00	1.53	0.00	(0.00,18.75)	.	.
North Shore Univ Hosp	274	2	0.73	0.82	0.84	(0.09, 3.02)	263	0.75
Southside Hospital	40	0	0.00	2.27	0.00	(0.00, 3.80)	15	0.00
Winthrop Univ. Hosp	287	4	1.39	0.96	1.37	(0.37, 3.49)	267	1.00
<b>Castillo R</b>	<b>305</b>	<b>8</b>	<b>2.62</b>	<b>1.27</b>	<b>1.94</b>	<b>(0.83, 3.82)</b>	<b>232</b>	<b>0.47</b>
Brookdale Hosp Med Ctr	48	7	14.58	3.70	3.71 *	(1.48, 7.64)	.	.
Univ.Hosp-Brooklyn	257	1	0.39	0.82	0.45	(0.01, 2.49)	232	0.47
<b>Chadow H</b>	<b>325</b>	<b>11</b>	<b>3.38</b>	<b>1.43</b>	<b>2.23 *</b>	<b>(1.11, 3.98)</b>	<b>243</b>	<b>1.60</b>
Brookdale Hosp Med Ctr	97	6	6.19	2.86	2.03	(0.74, 4.43)	34	0.00
Univ.Hosp-Brooklyn	228	5	2.19	0.82	2.51	(0.81, 5.87)	209	2.10 *
<b>Chang J</b>	<b>498</b>	<b>6</b>	<b>1.20</b>	<b>0.94</b>	<b>1.21</b>	<b>(0.44, 2.62)</b>	<b>439</b>	<b>0.81</b>
Lenox Hill Hospital	3	0	0.00	0.14	0.00	(0.00,100.0)	3	0.00
NY Hospital - Queens	480	6	1.25	0.97	1.21	(0.44, 2.64)	421	0.82
St. Francis Hospital	15	0	0.00	0.17	0.00	(0.00,100.0)	15	0.00
<b>Charney R</b>	<b>366</b>	<b>3</b>	<b>0.82</b>	<b>0.85</b>	<b>0.91</b>	<b>(0.18, 2.66)</b>	<b>357</b>	<b>0.47</b>
NYP- Weill Cornell	303	2	0.66	0.90	0.69	(0.08, 2.49)	296	0.54
Westchester Med Ctr	63	1	1.59	0.60	2.50	(0.03,13.94)	61	0.00
<b>Chockalingam S</b>	<b>351</b>	<b>8</b>	<b>2.28</b>	<b>1.09</b>	<b>1.97</b>	<b>(0.85, 3.88)</b>	<b>293</b>	<b>1.35</b>
Rochester General Hosp	337	8	2.37	1.09	2.04	(0.88, 4.02)	285	1.37
Unity Hospital	14	0	0.00	0.95	0.00	(0.00,26.03)	8	0.00

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Chokshi A</b>	<b>253</b>	<b>1</b>	<b>0.40</b>	<b>0.39</b>	<b>0.94</b>	<b>(0.01, 5.25)</b>	<b>252</b>	<b>0.63</b>
NY Methodist Hospital	177	1	0.56	0.41	1.29	(0.02, 7.15)	177	0.78
SVMC- St. Vincents	76	0	0.00	0.35	0.00	(0.00,13.06)	75	0.00
<b>Clark V</b>	<b>244</b>	<b>4</b>	<b>1.64</b>	<b>1.05</b>	<b>1.47</b>	<b>(0.40, 3.76)</b>	<b>180</b>	<b>2.10</b>
Arnot Ogden Med Ctr	5	0	0.00	0.34	0.00	(0.00,100.0)	4	0.00
M I Bassett Hospital	239	4	1.67	1.06	1.48	(0.40, 3.78)	176	2.14
<b>Conley J</b>	<b>1333</b>	<b>11</b>	<b>0.83</b>	<b>0.62</b>	<b>1.26</b>	<b>(0.63, 2.26)</b>	<b>1288</b>	<b>0.76</b>
Buffalo General Hosp	1330	11	0.83	0.61	1.27	(0.63, 2.27)	1288	0.76
Millard Fillmore Hosp	3	0	0.00	1.88	0.00	(0.00,61.10)	.	.
<b>Corbelli J</b>	<b>867</b>	<b>9</b>	<b>1.04</b>	<b>0.82</b>	<b>1.19</b>	<b>(0.54, 2.26)</b>	<b>783</b>	<b>0.60</b>
Buffalo General Hosp	8	0	0.00	1.99	0.00	(0.00,21.64)	.	.
Millard Fillmore Hosp	859	9	1.05	0.81	1.22	(0.55, 2.31)	783	0.60
<b>Coven D</b>	<b>222</b>	<b>3</b>	<b>1.35</b>	<b>1.17</b>	<b>1.09</b>	<b>(0.22, 3.17)</b>	<b>168</b>	<b>0.00</b>
Long Island Coll. Hosp	8	1	12.50	1.57	7.47	(0.10,41.55)	.	.
St. Lukes at St. Lukes	214	2	0.93	1.16	0.76	(0.09, 2.75)	168	0.00
<b>Delago A</b>	<b>1279</b>	<b>12</b>	<b>0.94</b>	<b>0.60</b>	<b>1.48</b>	<b>(0.76, 2.58)</b>	<b>1141</b>	<b>1.22</b>
Albany Medical Center	1245	12	0.96	0.55	1.65	(0.85, 2.88)	1128	1.25
Glens Falls Hospital	4	0	0.00	4.11	0.00	(0.00,20.99)	.	.
St. Peters Hospital	30	0	0.00	2.10	0.00	(0.00, 5.48)	13	0.00
<b>Dempsey S</b>	<b>76</b>	<b>0</b>	<b>0.00</b>	<b>0.64</b>	<b>0.00</b>	<b>(0.00, 7.08)</b>	<b>70</b>	<b>0.00</b>
Ellis Hospital	74	0	0.00	0.64	0.00	(0.00, 7.24)	69	0.00
St. Peters Hospital	2	0	0.00	0.53	0.00	(0.00,100.0)	1	0.00
<b>Deutsch E</b>	<b>702</b>	<b>8</b>	<b>1.14</b>	<b>0.60</b>	<b>1.78</b>	<b>(0.77, 3.51)</b>	<b>631</b>	<b>1.41</b>
Good Sam - West Islip	81	2	2.47	1.30	1.78	(0.20, 6.44)	50	3.23
North Shore Univ Hosp	141	2	1.42	0.59	2.28	(0.26, 8.22)	138	1.56
Southside Hospital	462	4	0.87	0.47	1.72	(0.46, 4.40)	434	1.17
St. Catherine of Siena	11	0	0.00	1.05	0.00	(0.00,29.97)	2	0.00
St. Francis Hospital	2	0	0.00	0.21	0.00	(0.00,100.0)	2	0.00
Winthrop Univ. Hosp	5	0	0.00	0.60	0.00	(0.00,100.0)	5	0.00
<b>Dhama B</b>	<b>336</b>	<b>0</b>	<b>0.00</b>	<b>0.68</b>	<b>0.00</b>	<b>(0.00, 1.50)</b>	<b>322</b>	<b>0.00</b>
LIJ Medical Center	188	0	0.00	0.67	0.00	(0.00, 2.73)	182	0.00
North Shore Univ Hosp	148	0	0.00	0.70	0.00	(0.00, 3.33)	140	0.00
<b>Doling M</b>	<b>795</b>	<b>11</b>	<b>1.38</b>	<b>0.79</b>	<b>1.64</b>	<b>(0.82, 2.94)</b>	<b>657</b>	<b>0.80</b>
Rochester General Hosp	4	0	0.00	0.32	0.00	(0.00,100.0)	4	0.00
Strong Memorial Hosp	751	11	1.46	0.83	1.67	(0.83, 2.99)	614	0.82
Unity Hospital	40	0	0.00	0.21	0.00	(0.00,40.29)	39	0.00
<b>Dominguez-Echevarria A<sup>1</sup></b>	<b>578</b>	<b>3</b>	<b>0.52</b>	<b>0.62</b>	<b>0.79</b>	<b>(0.16, 2.32)</b>	<b>577</b>	<b>0.53</b>
Lenox Hill Hospital	414	3	0.72	0.67	1.01	(0.20, 2.95)	413	0.68
NY Methodist Hospital	71	0	0.00	0.44	0.00	(0.00,11.14)	71	0.00
NYP- Columbia Presby.	33	0	0.00	0.77	0.00	(0.00,13.59)	33	0.00
SVMC- St. Vincents	60	0	0.00	0.33	0.00	(0.00,17.27)	60	0.00

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>El-Khally Z</b>	<b>744</b>	<b>9</b>	<b>1.21</b>	<b>1.10</b>	<b>1.03</b>	<b>(0.47, 1.96)</b>	<b>654</b>	<b>0.75</b>
Crouse Hospital	199	3	1.51	1.19	1.19	(0.24, 3.49)	162	1.11
St. Josephs Hospital	545	6	1.10	1.07	0.97	(0.35, 2.10)	492	0.69
<b>Emerson R</b>	<b>282</b>	<b>6</b>	<b>2.13</b>	<b>1.69</b>	<b>1.18</b>	<b>(0.43, 2.57)</b>	<b>170</b>	<b>0.41</b>
Erie County Med Ctr	1	0	0.00	1.22	0.00	(0.00,100.0)	.	.
Mercy Hospital	278	6	2.16	1.71	1.19	(0.43, 2.58)	167	0.41
Millard Fillmore Hosp	3	0	0.00	0.11	0.00	(0.00,100.0)	3	0.00
<b>Esper D</b>	<b>471</b>	<b>3</b>	<b>0.64</b>	<b>0.81</b>	<b>0.74</b>	<b>(0.15, 2.15)</b>	<b>412</b>	<b>0.27</b>
Albany Medical Center	151	1	0.66	0.80	0.78	(0.01, 4.34)	119	0.00
Glens Falls Hospital	2	0	0.00	0.76	0.00	(0.00,100.0)	.	.
St. Peters Hospital	318	2	0.63	0.82	0.72	(0.08, 2.60)	293	0.34
<b>Farhi E</b>	<b>815</b>	<b>3</b>	<b>0.37</b>	<b>0.88</b>	<b>0.39</b>	<b>(0.08, 1.15)</b>	<b>728</b>	<b>0.37</b>
Buffalo General Hosp	810	3	0.37	0.86	0.40	(0.08, 1.18)	728	0.37
Millard Fillmore Hosp	5	0	0.00	3.85	0.00	(0.00,17.94)	.	.
<b>Feit F</b>	<b>828</b>	<b>3</b>	<b>0.36</b>	<b>0.64</b>	<b>0.53</b>	<b>(0.11, 1.55)</b>	<b>770</b>	<b>0.00**</b>
Bellevue Hospital Ctr	203	1	0.49	0.82	0.57	(0.01, 3.16)	186	0.00
NYU Hospitals Center	625	2	0.32	0.58	0.52	(0.06, 1.86)	584	0.00
<b>Fernaine G</b>	<b>640</b>	<b>1</b>	<b>0.16</b>	<b>0.64</b>	<b>0.23</b>	<b>(0.00, 1.29)</b>	<b>616</b>	<b>0.00</b>
Lenox Hill Hospital	391	1	0.26	0.60	0.40	(0.01, 2.25)	382	0.00
Lutheran Medical Ctr	15	0	0.00	2.86	0.00	(0.00, 8.04)	.	.
Mount Sinai Hospital	234	0	0.00	0.56	0.00	(0.00, 2.63)	234	0.00
<b>Ford T</b>	<b>266</b>	<b>4</b>	<b>1.50</b>	<b>1.21</b>	<b>1.16</b>	<b>(0.31, 2.98)</b>	<b>210</b>	<b>1.10</b>
Crouse Hospital	117	2	1.71	1.23	1.30	(0.15, 4.71)	92	1.56
St. Josephs Hospital	106	1	0.94	0.80	1.11	(0.01, 6.15)	89	1.26
Univ.Hosp-SUNY Upstate	43	1	2.33	2.18	1.00	(0.01, 5.58)	29	0.00
<b>Fox J</b>	<b>1670</b>	<b>15</b>	<b>0.90</b>	<b>0.98</b>	<b>0.86</b>	<b>(0.48, 1.42)</b>	<b>1569</b>	<b>0.53</b>
Beth Israel Med Ctr	1669	15	0.90	0.98	0.86	(0.48, 1.42)	1568	0.53
Long Island Coll. Hosp	1	0	0.00	0.13	0.00	(0.00,100.0)	1	0.00
<b>Freeman J</b>	<b>764</b>	<b>12</b>	<b>1.57</b>	<b>1.48</b>	<b>1.00</b>	<b>(0.52, 1.75)</b>	<b>542</b>	<b>1.16</b>
LIJ Medical Center	1	0	0.00	7.39	0.00	(0.00,46.65)	1	0.00
North Shore Univ Hosp	13	0	0.00	0.57	0.00	(0.00,46.50)	12	0.00
South Nassau Comm.Hosp	750	12	1.60	1.49	1.01	(0.52, 1.77)	529	1.20
<b>Friedman G H</b>	<b>517</b>	<b>4</b>	<b>0.77</b>	<b>0.86</b>	<b>0.85</b>	<b>(0.23, 2.17)</b>	<b>472</b>	<b>0.22</b>
LIJ Medical Center	281	0	0.00	0.67	0.00	(0.00, 1.84)	261	0.00
NY Hospital - Queens	36	1	2.78	1.84	1.42	(0.02, 7.88)	28	0.00
North Shore Univ Hosp	108	1	0.93	0.84	1.03	(0.01, 5.74)	100	0.00
St. Francis Hospital	92	2	2.17	1.08	1.89	(0.21, 6.83)	83	0.97
<b>Gambino A</b>	<b>611</b>	<b>3</b>	<b>0.49</b>	<b>0.63</b>	<b>0.73</b>	<b>(0.15, 2.15)</b>	<b>570</b>	<b>0.56</b>
North Shore Univ Hosp	66	0	0.00	0.33	0.00	(0.00,16.03)	65	0.00
St. Francis Hospital	23	1	4.35	0.77	5.33	(0.07,29.63)	23	3.70
Winthrop Univ. Hosp	522	2	0.38	0.66	0.55	(0.06, 1.97)	482	0.43

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Garratt K</b>	<b>592</b>	<b>2</b>	<b>0.34</b>	<b>0.68</b>	<b>0.47</b>	<b>(0.05, 1.69)</b>	<b>549</b>	<b>0.21</b>
Jamaica Hosp Med Ctr	3	0	0.00	5.85	0.00	(0.00,19.64)	.	.
Lenox Hill Hospital	589	2	0.34	0.65	0.49	(0.05, 1.76)	549	0.21
<b>Geizhals M</b>	<b>255</b>	<b>2</b>	<b>0.78</b>	<b>0.90</b>	<b>0.82</b>	<b>(0.09, 2.95)</b>	<b>228</b>	<b>0.00</b>
Lenox Hill Hospital	5	0	0.00	0.34	0.00	(0.00,100.0)	5	0.00
NY Hospital - Queens	196	2	1.02	0.97	0.99	(0.11, 3.57)	170	0.00
NYP- Weill Cornell	54	0	0.00	0.71	0.00	(0.00, 9.00)	53	0.00
<b>Gelormini J</b>	<b>542</b>	<b>8</b>	<b>1.48</b>	<b>1.24</b>	<b>1.12</b>	<b>(0.48, 2.21)</b>	<b>425</b>	<b>1.00</b>
Mercy Hospital	405	8	1.98	1.37	1.36	(0.58, 2.67)	297	1.33
Millard Fillmore Hosp	137	0	0.00	0.84	0.00	(0.00, 2.98)	128	0.00
<b>Giambartolomei A</b>	<b>392</b>	<b>8</b>	<b>2.04</b>	<b>1.41</b>	<b>1.36</b>	<b>(0.59, 2.68)</b>	<b>299</b>	<b>0.83</b>
Champ.Valley Phys Hosp	7	0	0.00	1.24	0.00	(0.00,39.80)	6	0.00
St. Josephs Hospital	385	8	2.08	1.41	1.38	(0.60, 2.72)	293	0.85
<b>Goldman A Y</b>	<b>244</b>	<b>4</b>	<b>1.64</b>	<b>0.72</b>	<b>2.14</b>	<b>(0.58, 5.48)</b>	<b>219</b>	<b>0.59</b>
Bronx-Lebanon-Cncourse	20	2	10.00	2.59	3.63	(0.41,13.10)	.	.
Montefiore - Moses	182	2	1.10	0.62	1.66	(0.19, 6.00)	177	0.66
St. Lukes at St. Lukes	42	0	0.00	0.25	0.00	(0.00,32.30)	42	0.00
<b>Gotsis W</b>	<b>762</b>	<b>12</b>	<b>1.57</b>	<b>0.79</b>	<b>1.87 *</b>	<b>(0.96, 3.27)</b>	<b>616</b>	<b>1.87 *</b>
Montefiore - Einstein	675	10	1.48	0.56	2.51 *	(1.20, 4.61)	616	1.87 *
Orange Regional Med Ctr	87	2	2.30	2.63	0.82	(0.09, 2.97)	.	.
<b>Gowda R</b>	<b>1235</b>	<b>9</b>	<b>0.73</b>	<b>0.81</b>	<b>0.84</b>	<b>(0.38, 1.60)</b>	<b>1141</b>	<b>0.38</b>
Beth Israel Med Ctr	1149	6	0.52	0.80	0.62	(0.22, 1.34)	1070	0.31
Long Island Coll. Hosp	86	3	3.49	1.03	3.17	(0.64, 9.27)	71	1.37
<b>Green S</b>	<b>559</b>	<b>4</b>	<b>0.72</b>	<b>1.39</b>	<b>0.48</b>	<b>(0.13, 1.24)</b>	<b>427</b>	<b>0.70</b>
LIJ Medical Center	26	0	0.00	2.82	0.00	(0.00, 4.70)	3	0.00
North Shore Univ Hosp	533	4	0.75	1.32	0.53	(0.14, 1.37)	424	0.71
<b>Grella R</b>	<b>536</b>	<b>9</b>	<b>1.68</b>	<b>0.93</b>	<b>1.70</b>	<b>(0.78, 3.23)</b>	<b>442</b>	<b>1.61 *</b>
Arnot Ogden Med Ctr	305	7	2.30	1.04	2.07	(0.83, 4.26)	233	2.63 *
Univ.Hosp-Stony Brook	231	2	0.87	0.77	1.05	(0.12, 3.80)	209	0.82
<b>Grose R</b>	<b>342</b>	<b>1</b>	<b>0.29</b>	<b>0.65</b>	<b>0.42</b>	<b>(0.01, 2.35)</b>	<b>321</b>	<b>0.00</b>
Montefiore - Moses	83	1	1.20	1.00	1.13	(0.01, 6.28)	69	0.00
NYP- Columbia Presby.	259	0	0.00	0.54	0.00	(0.00, 2.48)	252	0.00
<b>Grunwald A</b>	<b>490</b>	<b>4</b>	<b>0.82</b>	<b>0.70</b>	<b>1.09</b>	<b>(0.29, 2.80)</b>	<b>446</b>	<b>1.01</b>
LIJ Medical Center	318	2	0.63	0.77	0.77	(0.09, 2.79)	297	0.69
NY Hospital - Queens	47	0	0.00	0.67	0.00	(0.00,10.90)	36	0.00
North Shore Univ Hosp	81	2	2.47	0.53	4.39	(0.49,15.84)	77	3.69
St. Francis Hospital	44	0	0.00	0.59	0.00	(0.00,13.36)	36	0.00
<b>Gupta R<sup>1</sup></b>	<b>132</b>	<b>0</b>	<b>0.00</b>	<b>0.92</b>	<b>0.00</b>	<b>(0.00, 2.84)</b>	<b>124</b>	<b>0.00</b>
LIJ Medical Center	60	0	0.00	1.00	0.00	(0.00, 5.76)	57	0.00
NY Hospital - Queens	17	0	0.00	1.68	0.00	(0.00,12.06)	17	0.00
SVMC- St. Vincents	55	0	0.00	0.60	0.00	(0.00,10.42)	50	0.00

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Gustafson G</b>	<b>540</b>	<b>6</b>	<b>1.11</b>	<b>0.75</b>	<b>1.40</b>	<b>(0.51, 3.05)</b>	<b>494</b>	<b>1.02</b>
Lenox Hill Hospital	34	0	0.00	0.67	0.00	(0.00,15.05)	34	0.00
NY Hospital - Queens	506	6	1.19	0.75	1.49	(0.54, 3.23)	460	1.12
<b>Hadid A</b>	<b>265</b>	<b>1</b>	<b>0.38</b>	<b>0.78</b>	<b>0.46</b>	<b>(0.01, 2.54)</b>	<b>250</b>	<b>0.00</b>
St.Lukes Crnwill-Newbrg	12	1	8.33	5.37	1.46	(0.02, 8.12)	.	.
Westchester Med Ctr	253	0	0.00	0.56	0.00	(0.00, 2.43)	250	0.00
<b>Hadid A B</b>	<b>133</b>	<b>1</b>	<b>0.75</b>	<b>1.29</b>	<b>0.55</b>	<b>(0.01, 3.06)</b>	<b>103</b>	<b>1.12</b>
St.Lukes Crnwill-Newbrg	12	0	0.00	7.44	0.00	(0.00, 3.86)	.	.
Westchester Med Ctr	121	1	0.83	0.68	1.15	(0.02, 6.39)	103	1.12
<b>Haq N</b>	<b>354</b>	<b>2</b>	<b>0.56</b>	<b>0.86</b>	<b>0.62</b>	<b>(0.07, 2.22)</b>	<b>285</b>	<b>0.39</b>
Buffalo General Hosp	8	0	0.00	3.15	0.00	(0.00,13.67)	.	.
Mercy Hospital	221	1	0.45	0.89	0.48	(0.01, 2.67)	183	0.00
Millard Fillmore Hosp	125	1	0.80	0.67	1.12	(0.01, 6.23)	102	1.33
<b>Hasan C<sup>1</sup></b>	<b>282</b>	<b>0</b>	<b>0.00</b>	<b>0.35</b>	<b>0.00</b>	<b>(0.00, 3.48)</b>	<b>281</b>	<b>0.00</b>
Mount Sinai Hospital	194	0	0.00	0.32	0.00	(0.00, 5.60)	194	0.00
SVMC- St. Vincents	88	0	0.00	0.42	0.00	(0.00, 9.23)	87	0.00
<b>Hogan R</b>	<b>484</b>	<b>7</b>	<b>1.45</b>	<b>0.85</b>	<b>1.59</b>	<b>(0.64, 3.28)</b>	<b>378</b>	<b>1.66</b>
Albany Medical Center	20	0	0.00	0.38	0.00	(0.00,45.21)	19	0.00
Glens Falls Hospital	464	7	1.51	0.87	1.62	(0.65, 3.34)	359	1.76
<b>Hormozi S</b>	<b>586</b>	<b>4</b>	<b>0.68</b>	<b>0.85</b>	<b>0.76</b>	<b>(0.20, 1.94)</b>	<b>475</b>	<b>0.30</b>
Good Sam - West Islip	228	3	1.32	0.87	1.43	(0.29, 4.18)	177	0.00
North Shore Univ Hosp	174	1	0.57	0.67	0.81	(0.01, 4.49)	169	0.60
Southside Hospital	121	0	0.00	0.92	0.00	(0.00, 3.10)	90	0.00
St. Catherine of Siena	24	0	0.00	1.84	0.00	(0.00, 7.82)	1	0.00
Winthrop Univ Hosp	39	0	0.00	0.73	0.00	(0.00,12.07)	38	0.00
<b>Hoyek W</b>	<b>520</b>	<b>3</b>	<b>0.58</b>	<b>0.60</b>	<b>0.90</b>	<b>(0.18, 2.64)</b>	<b>493</b>	<b>0.50</b>
Lutheran Medical Ctr	3	0	0.00	4.52	0.00	(0.00,25.47)	.	.
NY Methodist Hospital	368	2	0.54	0.45	1.13	(0.13, 4.10)	366	0.64
Staten Island Univ Hosp	149	1	0.67	0.89	0.71	(0.01, 3.95)	127	0.00
<b>Jafar M</b>	<b>685</b>	<b>6</b>	<b>0.88</b>	<b>1.07</b>	<b>0.77</b>	<b>(0.28, 1.67)</b>	<b>546</b>	<b>0.78</b>
St.Lukes Crnwill-Newbrg	2	0	0.00	1.17	0.00	(0.00,100.0)	.	.
Vassar Bros Med Ctr	683	6	0.88	1.07	0.77	(0.28, 1.67)	546	0.78
<b>Jain S</b>	<b>522</b>	<b>12</b>	<b>2.30</b>	<b>1.52</b>	<b>1.42</b>	<b>(0.73, 2.49)</b>	<b>396</b>	<b>1.63 *</b>
Jamaica Hosp Med Ctr	110	5	4.55	4.41	0.97	(0.31, 2.26)	.	.
Lenox Hill Hospital	412	7	1.70	0.75	2.14	(0.86, 4.41)	396	1.63 *
<b>Jasty B</b>	<b>215</b>	<b>4</b>	<b>1.86</b>	<b>0.47</b>	<b>3.69 *</b>	<b>(0.99, 9.45)</b>	<b>213</b>	<b>2.47 *</b>
NY Methodist Hospital	7	0	0.00	1.44	0.00	(0.00,34.31)	7	0.00
Univ.Hosp-Brooklyn	208	4	1.92	0.44	4.10 *	(1.10,10.49)	206	2.94 *
<b>Jauhar R</b>	<b>1428</b>	<b>12</b>	<b>0.84</b>	<b>0.76</b>	<b>1.03</b>	<b>(0.53, 1.81)</b>	<b>1220</b>	<b>0.67</b>
Huntington Hospital	1	0	0.00	2.71	0.00	(0.00,100.0)	.	.
LIJ Medical Center	1397	12	0.86	0.74	1.10	(0.57, 1.91)	1218	0.67
North Shore Univ Hosp	30	0	0.00	1.93	0.00	(0.00, 5.97)	2	0.00



Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Jayasundera T</b>	<b>773</b>	<b>2</b>	<b>0.26</b>	<b>0.40</b>	<b>0.60</b>	<b>(0.07, 2.17)</b>	<b>758</b>	<b>0.48</b>
Lenox Hill Hospital	359	1	0.28	0.39	0.68	(0.01, 3.77)	357	0.46
Mount Sinai Hospital	118	1	0.85	0.61	1.31	(0.02, 7.27)	113	1.27
NYU Hospitals Center	288	0	0.00	0.27	0.00	(0.00, 4.47)	288	0.00
Univ Hosp-Brooklyn	8	0	0.00	3.08	0.00	(0.00,13.99)	.	.
<b>John S</b>	<b>298</b>	<b>5</b>	<b>1.68</b>	<b>0.75</b>	<b>2.10</b>	<b>(0.68, 4.91)</b>	<b>284</b>	<b>1.73</b>
Brookdale Hosp Med Ctr	3	0	0.00	2.46	0.00	(0.00,46.80)	.	.
NY Methodist Hospital	12	0	0.00	0.58	0.00	(0.00,49.37)	12	0.00
Univ Hosp-Brooklyn	283	5	1.77	0.74	2.25	(0.72, 5.24)	272	1.79
<b>Johnson M</b>	<b>351</b>	<b>2</b>	<b>0.57</b>	<b>0.64</b>	<b>0.83</b>	<b>(0.09, 3.00)</b>	<b>319</b>	<b>0.38</b>
Montefiore - Moses	190	1	0.53	0.76	0.66	(0.01, 3.65)	162	0.00
NYP- Columbia Presby.	161	1	0.62	0.51	1.13	(0.01, 6.31)	157	0.74
<b>Kamran M</b>	<b>957</b>	<b>4</b>	<b>0.42</b>	<b>0.90</b>	<b>0.44</b>	<b>(0.12, 1.12)</b>	<b>748</b>	<b>0.42</b>
Elmhurst Hospital Ctr	847	3	0.35	0.96	0.35	(0.07, 1.01)	638	0.24
Mount Sinai Hospital	110	1	0.91	0.37	2.29	(0.03,12.73)	110	1.58
<b>Kantrowitz N</b>	<b>405</b>	<b>5</b>	<b>1.23</b>	<b>1.53</b>	<b>0.76</b>	<b>(0.24, 1.77)</b>	<b>308</b>	<b>0.00</b>
Beth Israel Med Ctr	77	1	1.30	0.92	1.33	(0.02, 7.42)	76	0.00
Long Island Coll. Hosp	232	4	1.72	1.99	0.81	(0.22, 2.09)	136	0.00
Maimonides Medical Ctr	96	0	0.00	0.91	0.00	(0.00, 3.96)	96	0.00
<b>Kaplan B</b>	<b>1547</b>	<b>5</b>	<b>0.32</b>	<b>0.84</b>	<b>0.36 **</b>	<b>(0.12, 0.84)</b>	<b>1378</b>	<b>0.23</b>
LIJ Medical Center	1514	4	0.26	0.80	0.31 **	(0.08, 0.79)	1376	0.23
North Shore Univ Hosp	33	1	3.03	2.66	1.07	(0.01, 5.96)	2	0.00
<b>Katz S</b>	<b>582</b>	<b>2</b>	<b>0.34</b>	<b>1.10</b>	<b>0.29</b>	<b>(0.03, 1.06)</b>	<b>475</b>	<b>0.00</b>
LIJ Medical Center	23	0	0.00	2.08	0.00	(0.00, 7.22)	8	0.00
North Shore Univ Hosp	545	2	0.37	1.09	0.32	(0.04, 1.15)	453	0.00
Southside Hospital	14	0	0.00	0.17	0.00	(0.00,100.0)	14	0.00
<b>Kelberman M</b>	<b>582</b>	<b>6</b>	<b>1.03</b>	<b>0.80</b>	<b>1.21</b>	<b>(0.44, 2.63)</b>	<b>521</b>	<b>0.90</b>
Faxton - St. Lukes	7	1	14.29	2.42	5.55	(0.07,30.90)	.	.
St. Elizabeth Med Ctr	575	5	0.87	0.78	1.04	(0.34, 2.44)	521	0.90
<b>Keller N</b>	<b>32</b>	<b>1</b>	<b>3.13</b>	<b>2.42</b>	<b>1.21</b>	<b>(0.02, 6.76)</b>	<b>12</b>	<b>0.00</b>
Bellevue Hospital Ctr	21	0	0.00	1.05	0.00	(0.00,15.61)	12	0.00
NYU Hospitals Center	11	1	9.09	5.03	1.70	(0.02, 9.45)	.	.
<b>Kesanakurthy S</b>	<b>1345</b>	<b>10</b>	<b>0.74</b>	<b>0.65</b>	<b>1.08</b>	<b>(0.51, 1.98)</b>	<b>1330</b>	<b>0.71</b>
Lenox Hill Hospital	377	1	0.27	0.41	0.61	(0.01, 3.39)	370	0.43
Long Island Coll. Hosp	3	0	0.00	0.95	0.00	(0.00,100.0)	3	0.00
Mount Sinai Hospital	51	0	0.00	0.24	0.00	(0.00,27.76)	51	0.00
NY Methodist Hospital	1	0	0.00	0.17	0.00	(0.00,100.0)	1	0.00
NYP- Columbia Presby.	843	9	1.07	0.80	1.26	(0.57, 2.39)	835	0.83
NYP- Weill Cornell	70	0	0.00	0.46	0.00	(0.00,10.74)	70	0.00
<b>Khan S</b>	<b>329</b>	<b>1</b>	<b>0.30</b>	<b>0.85</b>	<b>0.34</b>	<b>(0.00, 1.87)</b>	<b>313</b>	<b>0.26</b>
St. Catherine of Siena	12	0	0.00	3.04	0.00	(0.00, 9.45)	.	.
Univ.Hosp-Stony Brook	317	1	0.32	0.77	0.39	(0.01, 2.15)	313	0.26

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Kim B</b>	<b>118</b>	<b>0</b>	<b>0.00</b>	<b>0.23</b>	<b>0.00</b>	<b>(0.00,12.48)</b>	<b>118</b>	<b>0.00</b>
LIJ Medical Center	97	0	0.00	0.22	0.00	(0.00,16.32)	97	0.00
NY Hospital - Queens	3	0	0.00	0.12	0.00	(0.00,100.0)	3	0.00
North Shore Univ Hosp	18	0	0.00	0.34	0.00	(0.00,56.17)	18	0.00
<b>Kim M</b>	<b>1811</b>	<b>15</b>	<b>0.83</b>	<b>1.00</b>	<b>0.78</b>	<b>(0.44, 1.29)</b>	<b>1711</b>	<b>0.41</b>
Elmhurst Hospital Ctr	31	1	3.23	2.98	1.02	(0.01, 5.67)	6	0.00
Mount Sinai Hospital	1780	14	0.79	0.97	0.77	(0.42, 1.29)	1705	0.42
<b>Kodali S</b>	<b>434</b>	<b>10</b>	<b>2.30</b>	<b>1.23</b>	<b>1.77</b>	<b>(0.85, 3.25)</b>	<b>388</b>	<b>1.37</b>
Arnot Ogden Med Ctr	5	1	20.00	4.77	3.94	(0.05,21.93)	2	0.00
NYP- Columbia Presby.	429	9	2.10	1.18	1.67	(0.76, 3.16)	386	1.38 *
<b>Kokolis S</b>	<b>23</b>	<b>0</b>	<b>0.00</b>	<b>0.32</b>	<b>0.00</b>	<b>(0.00,46.22)</b>	<b>23</b>	<b>0.00</b>
NY Methodist Hospital	4	0	0.00	0.15	0.00	(0.00,100.0)	4	0.00
NYU Hospitals Center	9	0	0.00	0.21	0.00	(0.00,100.0)	9	0.00
Univ Hosp-Brooklyn	10	0	0.00	0.50	0.00	(0.00,69.25)	10	0.00
<b>Koss J</b>	<b>513</b>	<b>6</b>	<b>1.17</b>	<b>1.00</b>	<b>1.10</b>	<b>(0.40, 2.40)</b>	<b>458</b>	<b>0.66</b>
LIJ Medical Center	346	4	1.16	0.83	1.31	(0.35, 3.35)	325	0.96
NY Hospital - Queens	32	1	3.13	1.67	1.76	(0.02, 9.79)	20	0.00
North Shore Univ Hosp	92	0	0.00	0.87	0.00	(0.00, 4.30)	78	0.00
St. Francis Hospital	43	1	2.33	2.08	1.05	(0.01, 5.84)	35	0.00
<b>Kovar L</b>	<b>468</b>	<b>3</b>	<b>0.64</b>	<b>1.07</b>	<b>0.56</b>	<b>(0.11, 1.65)</b>	<b>384</b>	<b>0.46</b>
Good Sam - Suffern	467	3	0.64	1.07	0.56	(0.11, 1.65)	383	0.46
NYP- Columbia Presby.	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
<b>Krishnan P</b>	<b>501</b>	<b>3</b>	<b>0.60</b>	<b>0.86</b>	<b>0.65</b>	<b>(0.13, 1.91)</b>	<b>464</b>	<b>0.48</b>
Elmhurst Hospital Ctr	8	1	12.50	3.32	3.54	(0.05,19.68)	.	.
Mount Sinai Hospital	493	2	0.41	0.82	0.47	(0.05, 1.68)	464	0.48
<b>Kufs W</b>	<b>175</b>	<b>1</b>	<b>0.57</b>	<b>0.53</b>	<b>1.01</b>	<b>(0.01, 5.63)</b>	<b>166</b>	<b>0.70</b>
Ellis Hospital	114	1	0.88	0.57	1.45	(0.02, 8.05)	108	0.97
St. Peters Hospital	61	0	0.00	0.46	0.00	(0.00,12.35)	58	0.00
<b>Kurian D<sup>1</sup></b>	<b>184</b>	<b>0</b>	<b>0.00</b>	<b>0.53</b>	<b>0.00</b>	<b>(0.00, 3.52)</b>	<b>167</b>	<b>0.00</b>
NYU Hospitals Center	1	0	0.00	1.21	0.00	(0.00,100.0)	1	0.00
SVCMC- St. Vincents	183	0	0.00	0.53	0.00	(0.00, 3.57)	166	0.00
<b>Kwan T<sup>1</sup></b>	<b>812</b>	<b>1</b>	<b>0.12</b>	<b>0.27</b>	<b>0.43</b>	<b>(0.01, 2.38)</b>	<b>808</b>	<b>0.29</b>
Beth Israel Med Ctr	674	1	0.15	0.28	0.51	(0.01, 2.82)	671	0.34
NYU Hospitals Center	18	0	0.00	0.20	0.00	(0.00,95.11)	18	0.00
SVCMC- St. Vincents	120	0	0.00	0.25	0.00	(0.00,11.37)	119	0.00
<b>Laifer L</b>	<b>70</b>	<b>0</b>	<b>0.00</b>	<b>1.02</b>	<b>0.00</b>	<b>(0.00, 4.82)</b>	<b>56</b>	<b>0.00</b>
Arnot Ogden Med Ctr	19	0	0.00	0.83	0.00	(0.00,21.79)	13	0.00
M I Bassett Hospital	26	0	0.00	1.84	0.00	(0.00, 7.20)	18	0.00
NYP- Columbia Presby.	25	0	0.00	0.31	0.00	(0.00,44.36)	25	0.00
<b>Lasic Z</b>	<b>583</b>	<b>7</b>	<b>1.20</b>	<b>1.14</b>	<b>0.99</b>	<b>(0.40, 2.05)</b>	<b>451</b>	<b>0.50</b>
Jamaica Hosp Med Ctr	120	4	3.33	3.04	1.03	(0.28, 2.64)	.	.
Lenox Hill Hospital	463	3	0.65	0.64	0.95	(0.19, 2.77)	451	0.50

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Lederman S</b>	<b>278</b>	<b>2</b>	<b>0.72</b>	<b>0.74</b>	<b>0.91</b>	<b>(0.10, 3.28)</b>	<b>263</b>	<b>0.66</b>
North Shore Univ Hosp	58	0	0.00	0.33	0.00	(0.00,17.83)	58	0.00
Univ.Hosp-Stony Brook	214	2	0.93	0.86	1.02	(0.11, 3.69)	199	0.76
Winthrop Univ. Hosp	6	0	0.00	0.64	0.00	(0.00,89.89)	6	0.00
<b>Lee A</b>	<b>592</b>	<b>11</b>	<b>1.86</b>	<b>1.38</b>	<b>1.27</b>	<b>(0.63, 2.27)</b>	<b>462</b>	<b>0.81</b>
LIJ Medical Center	20	1	5.00	3.45	1.36	(0.02, 7.59)	3	0.00
North Shore Univ Hosp	572	10	1.75	1.30	1.26	(0.60, 2.32)	459	0.82
<b>Lee P C</b>	<b>263</b>	<b>2</b>	<b>0.76</b>	<b>0.33</b>	<b>2.19</b>	<b>(0.25, 7.91)</b>	<b>258</b>	<b>1.70</b>
Beth Israel Med Ctr	31	0	0.00	0.18	0.00	(0.00,61.91)	31	0.00
Lutheran Medical Ctr	6	0	0.00	1.98	0.00	(0.00,29.10)	1	0.00
Mount Sinai Hospital	226	2	0.88	0.30	2.75	(0.31, 9.92)	226	1.91
<b>Lee P J</b>	<b>870</b>	<b>9</b>	<b>1.03</b>	<b>0.73</b>	<b>1.33</b>	<b>(0.61, 2.53)</b>	<b>777</b>	<b>0.58</b>
Good Sam - West Islip	253	4	1.58	0.96	1.55	(0.42, 3.97)	200	0.00
LIJ Medical Center	4	0	0.00	0.27	0.00	(0.00,100.0)	4	0.00
North Shore Univ Hosp	180	2	1.11	0.86	1.21	(0.14, 4.37)	175	1.04
Southside Hospital	382	3	0.79	0.51	1.46	(0.29, 4.26)	347	0.61
St. Francis Hospital	48	0	0.00	0.84	0.00	(0.00, 8.58)	48	0.00
Winthrop Univ. Hosp	3	0	0.00	0.82	0.00	(0.00,100.0)	3	0.00
<b>Ling F</b>	<b>563</b>	<b>6</b>	<b>1.07</b>	<b>1.10</b>	<b>0.91</b>	<b>(0.33, 1.98)</b>	<b>433</b>	<b>0.45</b>
Strong Memorial Hosp	520	5	0.96	1.17	0.77	(0.25, 1.81)	393	0.47
Unity Hospital	43	1	2.33	0.30	7.18	(0.09,39.96)	40	0.00
<b>Lituchy A</b>	<b>559</b>	<b>2</b>	<b>0.36</b>	<b>0.97</b>	<b>0.35</b>	<b>(0.04, 1.25)</b>	<b>512</b>	<b>0.00**</b>
South Nassau Comm.Hosp	13	0	0.00	1.70	0.00	(0.00,15.56)	5	0.00
St. Francis Hospital	546	2	0.37	0.96	0.36	(0.04, 1.30)	507	0.00**
<b>MacIsaac H</b>	<b>791</b>	<b>7</b>	<b>0.88</b>	<b>1.27</b>	<b>0.66</b>	<b>(0.26, 1.35)</b>	<b>677</b>	<b>0.24</b>
Faxton - St. Lukes	7	2	28.57	8.56	3.14	(0.35,11.34)	.	.
St. Elizabeth Med Ctr	784	5	0.64	1.20	0.50	(0.16, 1.17)	677	0.24
<b>Macina A</b>	<b>69</b>	<b>2</b>	<b>2.90</b>	<b>1.99</b>	<b>1.37</b>	<b>(0.15, 4.94)</b>	<b>31</b>	<b>0.00</b>
Albany Medical Center	66	2	3.03	1.98	1.44	(0.16, 5.20)	31	0.00
St. Peters Hospital	3	0	0.00	2.28	0.00	(0.00,50.48)	.	.
<b>Madrid A</b>	<b>235</b>	<b>1</b>	<b>0.43</b>	<b>0.94</b>	<b>0.42</b>	<b>(0.01, 2.36)</b>	<b>200</b>	<b>0.47</b>
St. Catherine of Siena	7	0	0.00	2.87	0.00	(0.00,17.18)	.	.
St. Francis Hospital	228	1	0.44	0.88	0.47	(0.01, 2.60)	200	0.47
<b>Marchant D</b>	<b>277</b>	<b>0</b>	<b>0.00</b>	<b>1.42</b>	<b>0.00 **</b>	<b>(0.00, 0.88)</b>	<b>203</b>	<b>0.00</b>
LIJ Medical Center	20	0	0.00	3.18	0.00	(0.00, 5.42)	3	0.00
North Shore Univ Hosp	257	0	0.00	1.28	0.00	(0.00, 1.05)	200	0.00
<b>Masud A</b>	<b>747</b>	<b>3</b>	<b>0.40</b>	<b>0.76</b>	<b>0.50</b>	<b>(0.10, 1.46)</b>	<b>688</b>	<b>0.00**</b>
Buffalo General Hosp	202	1	0.50	0.60	0.77	(0.01, 4.28)	181	0.00
Millard Fillmore Hosp	545	2	0.37	0.81	0.42	(0.05, 1.53)	507	0.00
<b>Mathew T C</b>	<b>669</b>	<b>11</b>	<b>1.64</b>	<b>1.05</b>	<b>1.47</b>	<b>(0.73, 2.63)</b>	<b>560</b>	<b>1.48</b>
Faxton - St. Lukes	47	2	4.26	2.80	1.43	(0.16, 5.16)	.	.
St. Elizabeth Med Ctr	622	9	1.45	0.92	1.48	(0.67, 2.80)	560	1.48

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>McNulty P</b>	<b>291</b>	<b>5</b>	<b>1.72</b>	<b>1.11</b>	<b>1.46</b>	<b>(0.47, 3.41)</b>	<b>225</b>	<b>0.00</b>
Arnot Ogden Med Ctr	16	0	0.00	0.66	0.00	(0.00,32.43)	14	0.00
M I Bassett Hospital	275	5	1.82	1.13	1.51	(0.49, 3.52)	211	0.00
<b>Meltser H</b>	<b>404</b>	<b>11</b>	<b>2.72</b>	<b>2.10</b>	<b>1.22</b>	<b>(0.61, 2.18)</b>	<b>285</b>	<b>0.00</b>
Mercy Hospital	401	11	2.74	2.12	1.22	(0.61, 2.18)	282	0.00
Millard Fillmore Hosp	3	0	0.00	0.53	0.00	(0.00,100.0)	3	0.00
<b>Menegus M</b>	<b>781</b>	<b>10</b>	<b>1.28</b>	<b>1.21</b>	<b>0.99</b>	<b>(0.48, 1.83)</b>	<b>602</b>	<b>0.64</b>
Montefiore - Moses	780	10	1.28	1.20	1.00	(0.48, 1.84)	602	0.64
Orange Regional Med Ctr	1	0	0.00	7.34	0.00	(0.00,47.01)	.	.
<b>Menzies D</b>	<b>437</b>	<b>3</b>	<b>0.69</b>	<b>0.85</b>	<b>0.76</b>	<b>(0.15, 2.21)</b>	<b>349</b>	<b>0.75</b>
Arnot Ogden Med Ctr	9	0	0.00	0.50	0.00	(0.00,76.90)	8	0.00
M I Bassett Hospital	428	3	0.70	0.86	0.77	(0.15, 2.24)	341	0.77
<b>Messinger D</b>	<b>222</b>	<b>2</b>	<b>0.90</b>	<b>1.03</b>	<b>0.82</b>	<b>(0.09, 2.96)</b>	<b>212</b>	<b>0.35</b>
NYP- Weill Cornell	184	2	1.09	1.09	0.94	(0.11, 3.38)	175	0.43
Westchester Med Ctr	38	0	0.00	0.75	0.00	(0.00,12.06)	37	0.00
<b>Morris W</b>	<b>929</b>	<b>8</b>	<b>0.86</b>	<b>0.81</b>	<b>1.00</b>	<b>(0.43, 1.97)</b>	<b>845</b>	<b>0.77</b>
Buffalo General Hosp	818	7	0.86	0.75	1.07	(0.43, 2.20)	760	0.82
Mercy Hospital	104	0	0.00	1.04	0.00	(0.00, 3.19)	85	0.00
Millard Fillmore Hosp	7	1	14.29	4.04	3.33	(0.04,18.51)	.	.
<b>Moussa I</b>	<b>405</b>	<b>8</b>	<b>1.98</b>	<b>1.82</b>	<b>1.02</b>	<b>(0.44, 2.01)</b>	<b>351</b>	<b>0.63</b>
NYP- Columbia Presby.	147	1	0.68	0.93	0.69	(0.01, 3.81)	138	0.80
NYP- Weill Cornell	258	7	2.71	2.33	1.10	(0.44, 2.26)	213	0.57
<b>Musso J</b>	<b>12</b>	<b>0</b>	<b>0.00</b>	<b>1.11</b>	<b>0.00</b>	<b>(0.00,25.80)</b>	<b>12</b>	<b>0.00</b>
LIJ Medical Center	5	0	0.00	0.30	0.00	(0.00,100.0)	5	0.00
North Shore Univ Hosp	7	0	0.00	1.69	0.00	(0.00,29.10)	7	0.00
<b>Narins C</b>	<b>789</b>	<b>14</b>	<b>1.77</b>	<b>1.02</b>	<b>1.63</b>	<b>(0.89, 2.74)</b>	<b>614</b>	<b>1.50 *</b>
Strong Memorial Hosp	749	14	1.87	1.06	1.66	(0.91, 2.79)	575	1.56 *
Unity Hospital	40	0	0.00	0.36	0.00	(0.00,24.23)	39	0.00
<b>Nassif R</b>	<b>353</b>	<b>4</b>	<b>1.13</b>	<b>0.92</b>	<b>1.15</b>	<b>(0.31, 2.95)</b>	<b>308</b>	<b>0.89</b>
Faxton - St. Lukes	8	0	0.00	3.19	0.00	(0.00,13.50)	.	.
St. Elizabeth Med Ctr	345	4	1.16	0.87	1.25	(0.34, 3.20)	308	0.89
<b>Ong L S</b>	<b>2246</b>	<b>18</b>	<b>0.80</b>	<b>0.76</b>	<b>0.99</b>	<b>(0.59, 1.57)</b>	<b>2084</b>	<b>0.63</b>
Rochester General Hosp	2236	18	0.81	0.76	1.00	(0.59, 1.58)	2078	0.63
Unity Hospital	10	0	0.00	0.99	0.00	(0.00,34.67)	6	0.00
<b>Ong L Y</b>	<b>818</b>	<b>4</b>	<b>0.49</b>	<b>0.91</b>	<b>0.51</b>	<b>(0.14, 1.30)</b>	<b>704</b>	<b>0.55</b>
LIJ Medical Center	20	0	0.00	4.36	0.00	(0.00, 3.96)	1	0.00
North Shore Univ Hosp	798	4	0.50	0.82	0.57	(0.15, 1.47)	703	0.55
<b>Padmanabhan V</b>	<b>138</b>	<b>1</b>	<b>0.72</b>	<b>0.38</b>	<b>1.78</b>	<b>(0.02, 9.91)</b>	<b>135</b>	<b>0.00</b>
NYP- Weill Cornell	21	0	0.00	0.50	0.00	(0.00,32.74)	21	0.00
North Shore Univ Hosp	117	1	0.85	0.36	2.23	(0.03,12.39)	114	0.00

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Palkhiwala S</b>	<b>656</b>	<b>3</b>	<b>0.46</b>	<b>0.48</b>	<b>0.90</b>	<b>(0.18, 2.64)</b>	<b>656</b>	<b>0.56</b>
Lenox Hill Hospital	127	0	0.00	0.24	0.00	(0.00,11.53)	127	0.00
Mount Sinai Hospital	529	3	0.57	0.53	1.00	(0.20, 2.92)	529	0.62
<b>Papadakos S</b>	<b>893</b>	<b>9</b>	<b>1.01</b>	<b>1.01</b>	<b>0.94</b>	<b>(0.43, 1.78)</b>	<b>799</b>	<b>0.75</b>
Lenox Hill Hospital	254	2	0.79	0.42	1.77	(0.20, 6.41)	252	1.10
NY Hospital - Queens	638	7	1.10	1.24	0.83	(0.33, 1.71)	546	0.64
St. Francis Hospital	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
<b>Papaleo R</b>	<b>471</b>	<b>6</b>	<b>1.27</b>	<b>0.60</b>	<b>2.01</b>	<b>(0.73, 4.38)</b>	<b>429</b>	<b>0.71</b>
Albany Medical Center	448	5	1.12	0.59	1.77	(0.57, 4.13)	416	0.72
Glens Falls Hospital	3	1	33.33	2.03	15.41	(0.20,85.72)	.	.
St. Peters Hospital	20	0	0.00	0.45	0.00	(0.00,38.43)	13	0.00
<b>Papandrea L</b>	<b>243</b>	<b>4</b>	<b>1.65</b>	<b>0.81</b>	<b>1.90</b>	<b>(0.51, 4.87)</b>	<b>202</b>	<b>2.09</b>
Albany Medical Center	32	1	3.13	2.34	1.25	(0.02, 6.98)	12	5.96
St. Peters Hospital	211	3	1.42	0.58	2.30	(0.46, 6.71)	190	1.57
<b>Parikh M</b>	<b>1127</b>	<b>5</b>	<b>0.44</b>	<b>0.56</b>	<b>0.75</b>	<b>(0.24, 1.74)</b>	<b>1085</b>	<b>0.43</b>
Jamaica Hosp Med Ctr	5	0	0.00	2.14	0.00	(0.00,32.20)	.	.
Lenox Hill Hospital	904	5	0.55	0.54	0.96	(0.31, 2.25)	882	0.54
NYP- Weill Cornell	218	0	0.00	0.60	0.00	(0.00, 2.62)	203	0.00
<b>Park C</b>	<b>617</b>	<b>5</b>	<b>0.81</b>	<b>1.19</b>	<b>0.64</b>	<b>(0.21, 1.49)</b>	<b>469</b>	<b>0.41</b>
LIJ Medical Center	349	4	1.15	1.19	0.90	(0.24, 2.32)	282	0.56
NY Hospital - Queens	242	0	0.00	0.87	0.00	(0.00, 1.64)	184	0.00
North Shore Univ Hosp	26	1	3.85	4.23	0.85	(0.01, 4.75)	3	0.00
<b>Park J</b>	<b>156</b>	<b>0</b>	<b>0.00</b>	<b>0.43</b>	<b>0.00</b>	<b>(0.00, 5.14)</b>	<b>143</b>	<b>0.00</b>
NY Hospital - Queens	14	0	0.00	0.53	0.00	(0.00,46.66)	11	0.00
North Shore Univ Hosp	46	0	0.00	0.34	0.00	(0.00,22.17)	46	0.00
Winthrop Univ. Hosp	96	0	0.00	0.46	0.00	(0.00, 7.82)	86	0.00
<b>Patcha R</b>	<b>325</b>	<b>2</b>	<b>0.62</b>	<b>0.80</b>	<b>0.72</b>	<b>(0.08, 2.61)</b>	<b>275</b>	<b>0.41</b>
Huntington Hospital	46	0	0.00	2.31	0.00	(0.00, 3.24)	.	.
North Shore Univ Hosp	274	2	0.73	0.56	1.24	(0.14, 4.46)	270	0.42
St. Francis Hospital	5	0	0.00	0.33	0.00	(0.00,100.0)	5	0.00
<b>Patel A</b>	<b>394</b>	<b>4</b>	<b>1.02</b>	<b>0.93</b>	<b>1.02</b>	<b>(0.28, 2.62)</b>	<b>328</b>	<b>0.71</b>
Faxton - St. Lukes	5	0	0.00	1.51	0.00	(0.00,45.54)	.	.
St. Elizabeth Med Ctr	389	4	1.03	0.93	1.04	(0.28, 2.67)	328	0.71
<b>Patel R B</b>	<b>523</b>	<b>2</b>	<b>0.38</b>	<b>0.78</b>	<b>0.46</b>	<b>(0.05, 1.67)</b>	<b>409</b>	<b>0.00</b>
Good Sam - West Islip	94	1	1.06	1.43	0.70	(0.01, 3.90)	54	0.00
North Shore Univ Hosp	30	0	0.00	0.50	0.00	(0.00,22.78)	30	0.00
Southside Hospital	369	1	0.27	0.51	0.50	(0.01, 2.77)	325	0.00
St. Catherine of Siena	30	0	0.00	2.30	0.00	(0.00, 4.99)	.	.
<b>Patel T</b>	<b>1363</b>	<b>22</b>	<b>1.61</b>	<b>1.26</b>	<b>1.21</b>	<b>(0.76, 1.83)</b>	<b>1153</b>	<b>0.70</b>
Rochester General Hosp	455	5	1.10	1.20	0.86	(0.28, 2.00)	436	0.49
Unity Hospital	908	17	1.87	1.28	1.37	(0.80, 2.20)	717	1.09

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Pena Sing I</b>	<b>664</b>	<b>9</b>	<b>1.36</b>	<b>1.12</b>	<b>1.14</b>	<b>(0.52, 2.16)</b>	<b>601</b>	<b>0.38</b>
Bellevue Hospital Ctr	542	9	1.66	1.22	1.28	(0.59, 2.44)	493	0.42
NYU Hospitals Center	122	0	0.00	0.68	0.00	(0.00, 4.14)	108	0.00
<b>Perry-Bottinger L</b>	<b>78</b>	<b>2</b>	<b>2.56</b>	<b>0.61</b>	<b>3.97</b>	<b>(0.45,14.33)</b>	<b>78</b>	<b>2.68</b>
NY Hospital - Queens	9	0	0.00	0.31	0.00	(0.00,100.0)	9	0.00
NYP- Columbia Presby.	69	2	2.90	0.65	4.22	(0.47,15.22)	69	2.80
<b>Petrosian G</b>	<b>1351</b>	<b>13</b>	<b>0.96</b>	<b>1.06</b>	<b>0.85</b>	<b>(0.45, 1.46)</b>	<b>1285</b>	<b>0.48</b>
South Nassau Comm.Hosp	73	3	4.11	1.51	2.55	(0.51, 7.46)	67	2.23
St. Francis Hospital	1278	10	0.78	1.03	0.71	(0.34, 1.31)	1218	0.40
<b>Phadke K</b>	<b>1017</b>	<b>8</b>	<b>0.79</b>	<b>0.96</b>	<b>0.77</b>	<b>(0.33, 1.51)</b>	<b>864</b>	<b>0.68</b>
Buffalo General Hosp	19	0	0.00	5.30	0.00	(0.00, 3.43)	3	0.00
Erie County Med Ctr	5	0	0.00	1.75	0.00	(0.00,39.32)	3	0.00
Millard Fillmore Hosp	993	8	0.81	0.88	0.87	(0.37, 1.70)	858	0.70
<b>Puma A</b>	<b>481</b>	<b>2</b>	<b>0.42</b>	<b>0.48</b>	<b>0.82</b>	<b>(0.09, 2.96)</b>	<b>458</b>	<b>0.63</b>
Jamaica Hosp Med Ctr	9	0	0.00	1.71	0.00	(0.00,22.42)	.	.
Lenox Hill Hospital	472	2	0.42	0.45	0.88	(0.10, 3.17)	458	0.63
<b>Punukollu G</b>	<b>157</b>	<b>0</b>	<b>0.00</b>	<b>0.29</b>	<b>0.00</b>	<b>(0.00, 7.53)</b>	<b>156</b>	<b>0.00</b>
Beth Israel Med Ctr	135	0	0.00	0.29	0.00	(0.00, 8.87)	134	0.00
NY Methodist Hospital	18	0	0.00	0.34	0.00	(0.00,56.47)	18	0.00
SVMC- St. Vincents	4	0	0.00	0.20	0.00	(0.00,100.0)	4	0.00
<b>Pyo R</b>	<b>197</b>	<b>0</b>	<b>0.00</b>	<b>0.36</b>	<b>0.00</b>	<b>(0.00, 4.82)</b>	<b>196</b>	<b>0.00</b>
Lutheran Medical Ctr	1	0	0.00	0.70	0.00	(0.00,100.0)	.	.
Montefiore - Moses	10	0	0.00	0.22	0.00	(0.00,100.0)	10	0.00
Mount Sinai Hospital	186	0	0.00	0.37	0.00	(0.00, 5.02)	186	0.00
<b>Raza J</b>	<b>225</b>	<b>2</b>	<b>0.89</b>	<b>1.78</b>	<b>0.47</b>	<b>(0.05, 1.70)</b>	<b>178</b>	<b>0.00</b>
Jamaica Hosp Med Ctr	40	2	5.00	5.32	0.88	(0.10, 3.19)	.	.
Lenox Hill Hospital	185	0	0.00	1.01	0.00	(0.00, 1.84)	178	0.00
<b>Rehman A</b>	<b>702</b>	<b>4</b>	<b>0.57</b>	<b>1.04</b>	<b>0.51</b>	<b>(0.14, 1.32)</b>	<b>626</b>	<b>0.37</b>
North Shore Univ Hosp	14	0	0.00	1.45	0.00	(0.00,17.03)	14	0.00
South Nassau Comm.Hosp	14	1	7.14	3.11	2.16	(0.03,12.02)	6	0.00
St. Francis Hospital	674	3	0.45	0.99	0.42	(0.08, 1.23)	606	0.38
<b>Reich D</b>	<b>816</b>	<b>5</b>	<b>0.61</b>	<b>0.65</b>	<b>0.89</b>	<b>(0.29, 2.07)</b>	<b>716</b>	<b>0.86</b>
Good Sam - West Islip	273	1	0.37	0.70	0.49	(0.01, 2.74)	215	1.04
LIJ Medical Center	20	0	0.00	0.35	0.00	(0.00,49.05)	20	0.00
North Shore Univ Hosp	189	0	0.00	0.54	0.00	(0.00, 3.40)	187	0.00
Southside Hospital	305	4	1.31	0.68	1.83	(0.49, 4.67)	265	2.05
St. Francis Hospital	29	0	0.00	0.80	0.00	(0.00,14.84)	29	0.00
<b>Reimers C</b>	<b>1048</b>	<b>5</b>	<b>0.48</b>	<b>0.66</b>	<b>0.68</b>	<b>(0.22, 1.59)</b>	<b>1011</b>	<b>0.45</b>
Jamaica Hosp Med Ctr	2	0	0.00	1.16	0.00	(0.00,100.0)	.	.
Lenox Hill Hospital	1046	5	0.48	0.66	0.68	(0.22, 1.59)	1011	0.45

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Rentrop K<sup>1</sup></b>	<b>26</b>	<b>0</b>	<b>0.00</b>	<b>0.15</b>	<b>0.00</b>	<b>(0.00,89.28)</b>	<b>26</b>	<b>0.00</b>
Beth Israel Med Ctr	6	0	0.00	0.17	0.00	(0.00,100.0)	6	0.00
NYU Hospitals Center	8	0	0.00	0.19	0.00	(0.00,100.0)	8	0.00
SVCMC- St. Vincents	12	0	0.00	0.11	0.00	(0.00,100.0)	12	0.00
<b>Rosenband M</b>	<b>404</b>	<b>3</b>	<b>0.74</b>	<b>1.07</b>	<b>0.65</b>	<b>(0.13, 1.91)</b>	<b>379</b>	<b>0.67</b>
North Shore Univ Hosp	8	0	0.00	0.19	0.00	(0.00,100.0)	8	0.00
St. Catherine of Siena	15	0	0.00	2.00	0.00	(0.00,11.48)	2	0.00
Univ.Hosp-Stony Brook	381	3	0.79	1.05	0.70	(0.14, 2.06)	369	0.68
<b>Rosero H</b>	<b>295</b>	<b>0</b>	<b>0.00</b>	<b>0.79</b>	<b>0.00</b>	<b>(0.00, 1.48)</b>	<b>275</b>	<b>0.00</b>
Beth Israel Med Ctr	289	0	0.00	0.76	0.00	(0.00, 1.58)	271	0.00
Long Island Coll. Hosp	6	0	0.00	2.47	0.00	(0.00,23.26)	4	0.00
<b>Rouvelas P</b>	<b>217</b>	<b>3</b>	<b>1.38</b>	<b>0.65</b>	<b>2.00</b>	<b>(0.40, 5.84)</b>	<b>216</b>	<b>1.17</b>
NY Methodist Hospital	203	3	1.48	0.66	2.10	(0.42, 6.13)	202	1.26
Staten Island Univ Hosp	14	0	0.00	0.47	0.00	(0.00,52.46)	14	0.00
<b>Rutkin B</b>	<b>321</b>	<b>4</b>	<b>1.25</b>	<b>1.33</b>	<b>0.88</b>	<b>(0.24, 2.26)</b>	<b>220</b>	<b>1.06</b>
LIJ Medical Center	12	0	0.00	5.07	0.00	(0.00, 5.67)	1	0.00
North Shore Univ Hosp	309	4	1.29	1.18	1.03	(0.28, 2.63)	219	1.07
<b>Sassower M</b>	<b>694</b>	<b>8</b>	<b>1.15</b>	<b>1.14</b>	<b>0.95</b>	<b>(0.41, 1.87)</b>	<b>617</b>	<b>0.52</b>
Faxton - St. Lukes	4	0	0.00	2.11	0.00	(0.00,40.94)	.	.
North Shore Univ Hosp	8	0	0.00	0.27	0.00	(0.00,100.0)	8	0.00
St. Elizabeth Med Ctr	463	7	1.51	1.19	1.20	(0.48, 2.47)	411	0.77
Winthrop Univ. Hosp	219	1	0.46	1.07	0.40	(0.01, 2.23)	198	0.00
<b>Schwartz R</b>	<b>1055</b>	<b>5</b>	<b>0.47</b>	<b>0.69</b>	<b>0.64</b>	<b>(0.21, 1.50)</b>	<b>976</b>	<b>0.23</b>
Huntington Hospital	7	0	0.00	2.13	0.00	(0.00,23.09)	.	.
North Shore Univ Hosp	151	0	0.00	0.64	0.00	(0.00, 3.57)	149	0.00
St. Francis Hospital	16	0	0.00	1.37	0.00	(0.00,15.71)	16	0.00
Winthrop Univ Hosp	881	5	0.57	0.68	0.79	(0.25, 1.84)	811	0.29
<b>Sehhat K<sup>1</sup></b>	<b>105</b>	<b>1</b>	<b>0.95</b>	<b>0.54</b>	<b>1.66</b>	<b>(0.02, 9.22)</b>	<b>98</b>	<b>1.29</b>
Montefiore - Moses	63	0	0.00	0.67	0.00	(0.00, 8.20)	58	0.00
SVCMC- St. Vincents	42	1	2.38	0.35	6.42	(0.08,35.74)	40	5.25
<b>Shah N</b>	<b>215</b>	<b>1</b>	<b>0.47</b>	<b>0.83</b>	<b>0.52</b>	<b>(0.01, 2.92)</b>	<b>189</b>	<b>0.00</b>
St.Lukes Crnwill-Newbrg	10	1	10.00	4.05	2.32	(0.03,12.92)	.	.
Vassar Bros Med Ctr	205	0	0.00	0.68	0.00	(0.00, 2.48)	189	0.00
<b>Shaknovich A</b>	<b>328</b>	<b>0</b>	<b>0.00</b>	<b>0.58</b>	<b>0.00</b>	<b>(0.00, 1.80)</b>	<b>325</b>	<b>0.00</b>
Beth Israel Med Ctr	2	0	0.00	0.34	0.00	(0.00,100.0)	2	0.00
NY Methodist Hospital	326	0	0.00	0.59	0.00	(0.00, 1.81)	323	0.00
<b>Shani J</b>	<b>676</b>	<b>6</b>	<b>0.89</b>	<b>0.94</b>	<b>0.89</b>	<b>(0.32, 1.93)</b>	<b>659</b>	<b>0.57</b>
Maimonides Medical Ctr	675	6	0.89	0.94	0.89	(0.32, 1.93)	658	0.57
NYU Hospitals Center	1	0	0.00	0.13	0.00	(0.00,100.0)	1	0.00
<b>Shaqra H</b>	<b>251</b>	<b>1</b>	<b>0.40</b>	<b>0.84</b>	<b>0.44</b>	<b>(0.01, 2.47)</b>	<b>207</b>	<b>0.00</b>
Bronx-Lebanon-Concourse	23	1	4.35	3.47	1.18	(0.02, 6.55)	.	.
Montefiore - Moses	228	0	0.00	0.58	0.00	(0.00, 2.61)	207	0.00

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Sherman W</b>	<b>240</b>	<b>1</b>	<b>0.42</b>	<b>1.15</b>	<b>0.34</b>	<b>(0.00, 1.90)</b>	<b>213</b>	<b>0.00</b>
NY Methodist Hospital	20	0	0.00	0.22	0.00	(0.00,77.63)	20	0.00
NYP- Columbia Presby.	220	1	0.45	1.23	0.35	(0.00, 1.94)	193	0.00
<b>Silverman G</b>	<b>506</b>	<b>5</b>	<b>0.99</b>	<b>0.96</b>	<b>0.97</b>	<b>(0.31, 2.26)</b>	<b>360</b>	<b>1.23</b>
Montefiore - Einstein	427	4	0.94	0.62	1.43	(0.38, 3.66)	360	1.23
Orange Regional Med Ctr	79	1	1.27	2.82	0.42	(0.01, 2.35)	.	.
<b>Simon C</b>	<b>401</b>	<b>5</b>	<b>1.25</b>	<b>2.05</b>	<b>0.57</b>	<b>(0.18, 1.34)</b>	<b>345</b>	<b>0.36</b>
Mount Sinai Hospital	21	1	4.76	1.34	3.34	(0.04,18.60)	21	2.48
St. Lukes at St. Lukes	380	4	1.05	2.09	0.47	(0.13, 1.21)	324	0.25
<b>Slater J</b>	<b>345</b>	<b>5</b>	<b>1.45</b>	<b>1.02</b>	<b>1.33</b>	<b>(0.43, 3.11)</b>	<b>302</b>	<b>0.35</b>
Bellevue Hospital Ctr	59	3	5.08	1.79	2.67	(0.54, 7.80)	42	0.00
NYU Hospitals Center	252	2	0.79	0.90	0.83	(0.09, 3.00)	227	0.51
St. Lukes at St. Lukes	34	0	0.00	0.62	0.00	(0.00,16.35)	33	0.00
<b>Slotwiner A</b>	<b>171</b>	<b>4</b>	<b>2.34</b>	<b>1.63</b>	<b>1.35</b>	<b>(0.36, 3.46)</b>	<b>130</b>	<b>1.56</b>
Champ.Valley Phys Hosp	6	0	0.00	3.39	0.00	(0.00,16.94)	1	0.00
NYP- Weill Cornell	165	4	2.42	1.56	1.46	(0.39, 3.73)	129	1.56
<b>Soffer D</b>	<b>354</b>	<b>2</b>	<b>0.56</b>	<b>0.50</b>	<b>1.06</b>	<b>(0.12, 3.82)</b>	<b>323</b>	<b>1.01</b>
Jamaica Hosp Med Ctr	19	0	0.00	1.67	0.00	(0.00,10.87)	.	.
Lenox Hill Hospital	335	2	0.60	0.44	1.29	(0.14, 4.65)	323	1.01
<b>Srinivas V</b>	<b>518</b>	<b>6</b>	<b>1.16</b>	<b>0.71</b>	<b>1.54</b>	<b>(0.56, 3.36)</b>	<b>449</b>	<b>1.22</b>
Montefiore - Einstein	515	6	1.17	0.70	1.56	(0.57, 3.39)	447	1.23
Montefiore - Moses	3	0	0.00	1.23	0.00	(0.00,93.29)	2	0.00
<b>Srivastava S<sup>1</sup></b>	<b>81</b>	<b>3</b>	<b>3.70</b>	<b>0.65</b>	<b>5.37 *</b>	<b>(1.08,15.68)</b>	<b>76</b>	<b>6.12 *</b>
Long Island Coll. Hosp	10	1	10.00	1.63	5.76	(0.08,32.05)	7	20.66
SVMC- St. Vincents	71	2	2.82	0.51	5.19	(0.58,18.73)	69	4.52
<b>Staniloae C<sup>1</sup></b>	<b>268</b>	<b>5</b>	<b>1.87</b>	<b>0.47</b>	<b>3.74 *</b>	<b>(1.21, 8.74)</b>	<b>236</b>	<b>2.36</b>
NYU Hospitals Center	2	0	0.00	0.10	0.00	(0.00,100.0)	2	0.00
SVMC- St. Vincents	266	5	1.88	0.47	3.75 *	(1.21, 8.75)	234	2.37
<b>Stathopoulos I</b>	<b>78</b>	<b>4</b>	<b>5.13</b>	<b>3.01</b>	<b>1.60</b>	<b>(0.43, 4.11)</b>	<b>58</b>	<b>1.48</b>
Jamaica Hosp Med Ctr	2	0	0.00	10.21	0.00	(0.00,16.89)	.	.
Lenox Hill Hospital	17	0	0.00	0.26	0.00	(0.00,77.55)	17	0.00
NY Hospital - Queens	57	4	7.02	3.67	1.80	(0.48, 4.61)	39	1.67
NYU Hospitals Center	2	0	0.00	0.27	0.00	(0.00,100.0)	2	0.00
<b>Strizik B</b>	<b>538</b>	<b>7</b>	<b>1.30</b>	<b>1.05</b>	<b>1.17</b>	<b>(0.47, 2.41)</b>	<b>436</b>	<b>0.87</b>
Huntington Hospital	70	3	4.29	2.65	1.52	(0.31, 4.45)	.	.
LIJ Medical Center	34	0	0.00	1.47	0.00	(0.00, 6.89)	29	0.00
North Shore Univ Hosp	434	4	0.92	0.75	1.15	(0.31, 2.95)	407	0.93
<b>Stuver T</b>	<b>917</b>	<b>15</b>	<b>1.64</b>	<b>1.03</b>	<b>1.50</b>	<b>(0.84, 2.47)</b>	<b>728</b>	<b>1.15</b>
Rochester General Hosp	911	15	1.65	1.02	1.51	(0.85, 2.49)	723	1.15
Unity Hospital	6	0	0.00	1.35	0.00	(0.00,42.74)	5	0.00



Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Suleman J</b>	<b>1044</b>	<b>8</b>	<b>0.77</b>	<b>0.74</b>	<b>0.97</b>	<b>(0.42, 1.91)</b>	<b>1029</b>	<b>0.65</b>
Jamaica Hosp Med Ctr	2	1	50.00	1.34	35.09	(0.46,100.0)	.	.
LIJ Medical Center	14	0	0.00	0.69	0.00	(0.00,35.87)	14	0.00
Mount Sinai Hospital	1028	7	0.68	0.74	0.86	(0.35, 1.78)	1015	0.66
<b>Sullivan P</b>	<b>92</b>	<b>1</b>	<b>1.09</b>	<b>1.01</b>	<b>1.01</b>	<b>(0.01, 5.64)</b>	<b>69</b>	<b>0.00</b>
Buffalo General Hosp	82	1	1.22	0.84	1.37	(0.02, 7.61)	64	0.00
Mercy Hospital	6	0	0.00	2.65	0.00	(0.00,21.73)	3	0.00
Millard Fillmore Hosp	4	0	0.00	2.03	0.00	(0.00,42.49)	2	0.00
<b>Tsiamtsiouris T</b>	<b>493</b>	<b>6</b>	<b>1.22</b>	<b>1.34</b>	<b>0.85</b>	<b>(0.31, 1.85)</b>	<b>442</b>	<b>0.41</b>
St. Catherine of Siena	11	0	0.00	2.73	0.00	(0.00,11.49)	.	.
St. Francis Hospital	482	6	1.24	1.31	0.89	(0.33, 1.94)	442	0.41
<b>Varma P</b>	<b>496</b>	<b>7</b>	<b>1.41</b>	<b>0.98</b>	<b>1.36</b>	<b>(0.54, 2.80)</b>	<b>429</b>	<b>1.20</b>
Faxon - St. Lukes	5	0	0.00	1.68	0.00	(0.00,40.97)	.	.
St. Elizabeth Med Ctr	491	7	1.43	0.97	1.38	(0.55, 2.85)	429	1.20
<b>Vidarthi V</b>	<b>76</b>	<b>0</b>	<b>0.00</b>	<b>0.37</b>	<b>0.00</b>	<b>(0.00,12.38)</b>	<b>76</b>	<b>0.00</b>
NY Methodist Hospital	15	0	0.00	0.76	0.00	(0.00,30.31)	15	0.00
SVMC- St. Vincents	61	0	0.00	0.27	0.00	(0.00,20.93)	61	0.00
<b>Visco J</b>	<b>1104</b>	<b>7</b>	<b>0.63</b>	<b>0.32</b>	<b>1.84</b>	<b>(0.74, 3.80)</b>	<b>1070</b>	<b>1.54 *</b>
Buffalo General Hosp	1103	7	0.63	0.32	1.85	(0.74, 3.81)	1070	1.54 *
Millard Fillmore Hosp	1	0	0.00	1.30	0.00	(0.00,100.0)	.	.
<b>Wachsman D</b>	<b>123</b>	<b>0</b>	<b>0.00</b>	<b>0.65</b>	<b>0.00</b>	<b>(0.00, 4.33)</b>	<b>111</b>	<b>0.00</b>
North Shore Univ Hosp	118	0	0.00	0.67	0.00	(0.00, 4.39)	106	0.00
St. Francis Hospital	5	0	0.00	0.20	0.00	(0.00,100.0)	5	0.00
<b>Weinberger J</b>	<b>14</b>	<b>0</b>	<b>0.00</b>	<b>0.44</b>	<b>0.00</b>	<b>(0.00,56.48)</b>	<b>14</b>	<b>0.00</b>
Mount Sinai Hospital	2	0	0.00	0.32	0.00	(0.00,100.0)	2	0.00
NYP- Columbia Presby.	3	0	0.00	0.11	0.00	(0.00,100.0)	3	0.00
NYU Hospitals Center	9	0	0.00	0.57	0.00	(0.00,67.23)	9	0.00
<b>Weinstein J</b>	<b>401</b>	<b>2</b>	<b>0.50</b>	<b>0.88</b>	<b>0.53</b>	<b>(0.06, 1.92)</b>	<b>370</b>	<b>0.41</b>
St. Catherine of Siena	3	0	0.00	1.47	0.00	(0.00,78.24)	.	.
Univ.Hosp-Stony Brook	398	2	0.50	0.88	0.54	(0.06, 1.95)	370	0.41
<b>Wilentz J</b>	<b>265</b>	<b>1</b>	<b>0.38</b>	<b>0.65</b>	<b>0.55</b>	<b>(0.01, 3.03)</b>	<b>250</b>	<b>0.00</b>
Jamaica Hosp Med Ctr	3	0	0.00	1.49	0.00	(0.00,77.26)	.	.
Lenox Hill Hospital	262	1	0.38	0.64	0.56	(0.01, 3.11)	250	0.00
<b>Witkes D</b>	<b>301</b>	<b>3</b>	<b>1.00</b>	<b>0.65</b>	<b>1.45</b>	<b>(0.29, 4.23)</b>	<b>289</b>	<b>1.13</b>
North Shore Univ Hosp	128	2	1.56	0.54	2.70	(0.30, 9.74)	125	1.98
Winthrop Univ Hosp	173	1	0.58	0.72	0.75	(0.01, 4.18)	164	0.61
<b>Yang Y</b>	<b>446</b>	<b>1</b>	<b>0.22</b>	<b>0.57</b>	<b>0.37</b>	<b>(0.00, 2.06)</b>	<b>417</b>	<b>0.28</b>
Jamaica Hosp Med Ctr	9	0	0.00	1.91	0.00	(0.00,20.08)	.	.
Lenox Hill Hospital	437	1	0.23	0.54	0.40	(0.01, 2.21)	417	0.28

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
<b>Yatskar L</b>	<b>432</b>	<b>4</b>	<b>0.93</b>	<b>0.82</b>	<b>1.06</b>	<b>(0.28, 2.71)</b>	<b>379</b>	<b>0.83</b>
Bellevue Hospital Ctr	312	4	1.28	0.72	1.68	(0.45, 4.30)	287	1.02
Elmhurst Hospital Ctr	18	0	0.00	3.44	0.00	(0.00, 5.56)	.	.
NYU Hospitals Center	102	0	0.00	0.68	0.00	(0.00, 4.95)	92	0.00
<b>Zisfein J</b>	<b>476</b>	<b>4</b>	<b>0.84</b>	<b>1.03</b>	<b>0.77</b>	<b>(0.21, 1.97)</b>	<b>423</b>	<b>0.51</b>
North Shore Univ Hosp	13	1	7.69	0.60	12.03	(0.16, 66.91)	13	7.59
South Nassau Comm. Hosp	379	3	0.79	1.06	0.71	(0.14, 2.06)	326	0.46
St. Francis Hospital	84	0	0.00	0.95	0.00	(0.00, 4.31)	84	0.00

<sup>1</sup> 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 (2009) Based on Documentation in Medical Record

Patient Risk Factor	Definitions
<p><b>Hemodynamic State</b></p> <ul style="list-style-type: none"> <li>• Unstable</li> <li>• Shock</li> </ul>	<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 &lt; 80 mmHg) or low cardiac index (&lt; 2.0 liters/min/m<sup>2</sup>), despite pharmacologic or mechanical support. All cases with this risk factor are excluded from this report.</p>
<p><b>Comorbidities</b></p> <ul style="list-style-type: none"> <li>• Cerebrovascular Disease</li> <li>• Congestive Heart Failure (CHF), Current</li> <li>• Chronic Obstructive Pulmonary Disease</li> <li>• Diabetes requiring medication</li> <li>• Malignant Ventricular Arrhythmia</li> <li>• Peripheral Vascular Disease</li> <li>• Renal Failure, Creatinine</li> <li>• Renal Failure, Dialysis</li> </ul>	<p>A history of stroke, with or without residual deficit; angiographic or ultrasound demonstration of at least 50% narrowing in a major cerebral or carotid artery (common or internal); or previous surgery for such disease. A history of bruits or transient ischemic attacks (TIA) is not sufficient evidence of cerebrovascular disease.</p> <p>Within 2 weeks prior to the procedure, the patient has a clinical diagnosis of CHF, and symptoms requiring treatment for CHF.</p> <p>Note: Physician diagnosis of CHF may be based on one of the following:</p> <ul style="list-style-type: none"> <li>• Paroxysmal nocturnal dyspnea (PND)</li> <li>• Dyspnea on exertion (DOE) due to heart failure</li> <li>• Chest X-Ray showing pulmonary congestion</li> </ul> <p>Documentation must include the presence of a diagnosis of CHF, evidence of symptoms, and treatment for CHF .</p> <p>Patients who:</p> <ul style="list-style-type: none"> <li>• Require chronic (longer than three months) bronchodilator therapy to avoid disability from obstructive airway disease,</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>• Have a forced expiratory volume in one second of less than 75% of the predicted value or less than 1.25 liters,</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>• Have a room air PO<sub>2</sub> &lt;60 or a PCO<sub>2</sub> &gt;50.</li> </ul> <p>The patient is receiving either oral hypoglycemics or insulin.</p> <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> <p>Angiographic demonstration of at least 50% narrowing in a major aortoiliac or femoral/popliteal vessel, previous surgery for such disease, absent femoral or pedal pulses, or the inability to insert a catheter or intra-aortic balloon due to iliac aneurysm or obstruction of the aortoiliac or femoral arteries.</p> <p>Highest Pre-PCI creatinine during the hospital admission was within the indicated range.</p> <p>The patient is on chronic peritoneal or hemodialysis.</p>

**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 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.

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**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

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

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

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

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

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

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

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

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

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

**lesion** - An irregular growth of fiber and tissue.

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

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

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

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

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

**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

## 2009 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 2009 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 1.976. This means that a patient with CHF in the past two weeks is approximately 1.976 times as likely to die in the hospital during the same admission as PCI or after hospital discharge but within 30 days of the PCI as a patient without CHF, Current who has the same other significant risk factors. The risk factors Unstable, Cerebrovascular Disease 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 1.056 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.

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 1 reflects the fact that patients with very high and very low BSAs tend to have higher risks of in-hospital/30-day mortality than patients with intermediate levels of BSA. This functional form is used to improve the model’s ability to predict mortality, but it means that the odds ratios for these terms do not have a straightforward interpretation.

Ejection fraction, which is the percentage of blood in the heart’s left ventricle that is expelled when it contracts (with more denoting a healthier heart), is subdivided into four ranges (less than 20 percent, 20 percent to 29 percent, 30 percent to 39 percent and 40 percent or more). The last range is referred to as the reference category. This means that the odds ratio that appears for the other Ejection Fraction categories in the table is relative to patients with an ejection fraction of 40 percent or more. Thus, a PCI patient with an ejection fraction of less than 20 percent is about 4.148 times as likely to die in the hospital or within 30 days as a patient with an ejection fraction of 40 percent or higher, all other significant risk factors being the same.

Previous MI is subdivided into eight ranges (with ST Elevation present, occurring less than six hours prior, six to eleven hours prior, twelve to twenty-three hours prior; without ST Elevation, less than six hours prior, six to eleven hours prior, twelve to twenty-three hours prior; with or without ST Elevation, one to seven days prior; and no MI within seven 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 seven days prior to PCI.

Renal failure is subdivided into five groups. Four categories represent patients with various levels of elevated creatinine, but no dialysis. The fifth category includes patients with renal failure on dialysis. All groups are relative to patients who are not on dialysis and had no pre-PCI creatinine values greater than 1.1 mg/dL.

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.

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, 2009 (All Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
<b>Demographic</b>				
Age: number of years > 60	—	0.0541	<.0001	1.056
Body Surface Area	—	-5.7091	<.0001	—
Body Surface Area - squared	—	1.3185	0.0002	—
<b>Hemodynamic State</b>				
Unstable	0.45	1.6496	<.0001	5.205
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 40% or greater	89.03	—Reference—		1.000
Ejection Fraction less than 20 %	0.72	1.4226	<.0001	4.148
Ejection Fraction 20-29 %	3.46	0.8291	<.0001	2.291
Ejection Fraction 30-39 %	6.78	0.4596	0.0007	1.583
Pre-Procedural MI				
No MI within 7 days	75.51	—Reference—		1.000
MI with ST Elevation				
MI < 6 hrs	7.86	2.4108	<.0001	11.143
MI 6-11 hrs	1.59	2.1042	<.0001	8.201
MI 12 – 23 hrs	0.88	2.4069	<.0001	11.100
MI without ST Elevation				
MI < 6 hrs	0.60	2.1875	<.0001	8.913
MI 6-11 hrs	0.84	1.5535	<.0001	4.728
MI 12 – 23 hrs	1.61	1.6985	<.0001	5.466
MI with or without ST Elevation				
MI 1-7 days	11.12	1.1363	<.0001	3.115
<b>Comorbidities</b>				
Cerebrovascular Disease	8.37	0.4202	0.0016	1.522
CHF- Current	5.29	0.6811	<.0001	1.976
Malignant Ventricular Arrhythmia	0.64	1.1313	<.0001	3.100
Renal Failure				
No Renal Failure	67.61	—Reference—		1.000
Renal Failure, Creatinine 1.2-1.5 mg/dl	22.30	0.4009	0.0008	1.493
Renal Failure, Creatinine 1.6-2.0 mg/dl	5.58	0.7883	<.0001	2.200
Renal Failure, Creatinine 2.1 – 3.0 mg/dl	1.71	1.2845	<.0001	3.613
Renal Failure, Creatinine > 3.0 mg/dl	0.54	1.5064	<.0001	4.510
Renal Failure, Requiring Dialysis	2.26	1.6621	<.0001	5.271
<b>Vessels Diseased</b>				
Two or Three Vessels Diseased	45.81	0.2900	0.0032	1.336
Left Main Disease	4.14	0.5799	0.0003	1.786
Intercept = -0.9386				
C Statistic = 0.866				

# Appendix 2

## 2009 Risk Factors For In-Hospital/30-Day Mortality For Non-Emergency PCI

Appendix 2 contains the significant pre-procedural risk factors for 2009 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 Cerebrovascular Disease, CHF-Current, Two or Three Vessels Diseased and Left Main Disease are interpreted in the same manner as they were in Appendix 1. The interpretation for Age is similar to that described in Appendix 1, except in this case all patients age 65 and younger have the same risk if their other significant risk factors are the same. Renal Failure is also similar to Appendix 1, but in this case, all groups are relative to patients who are not on dialysis and who had no pre-PCI creatinine values greater than 1.5 mg/dL. .

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

**Appendix 2** Multivariate Risk-Factor Equation for In-Hospital/ 30-Day Deaths During or Following PCI , 2009 (Non-Emergency Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
<b>Demographic</b>				
Age: Number of Years > 65	—	0.0657	<.0001	1.068
<b>Ventricular Function</b>				
Pre-Procedural MI				
No MI within 7 days	87.22	—Reference—		1.000
MI 1-7 days	12.78	1.1394	<.0001	3.125
<b>Comorbidities</b>				
Cerebrovascular Disease	8.93	0.5522	0.0005	1.737
CHF, Current	5.39	1.0681	<.0001	2.910
Renal Failure				
No Renal Failure	89.56	—Reference—		1.000
Renal Failure, Creatinine 1.6– 2.0 mg/dl	5.66	0.5675	0.0048	1.764
Renal Failure, Creatinine 2.1 – 3.0 mg/dl	1.75	1.1516	<.0001	3.163
Renal Failure, Creatinine > 3.0 mg/dl	0.55	1.2786	0.0018	3.592
Renal Failure, requiring dialysis	2.48	1.5335	<.0001	4.634
<b>Vessels Diseased</b>				
Two or Three Vessels Diseased	45.80	0.3614	0.0081	1.435
Left Main Disease	4.31	0.7179	0.0002	2.050

Intercept = -6.6989

C Statistic = 0.819



# Appendix 3

## 2007-2009 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 2007-2009 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. Unstable, Ejection Fraction, Pre-Procedural MI, Cerebrovascular Disease, CHF-Current, Malignant Ventricular Arrhythmia, Renal Failure, and Left Main Disease are interpreted in the same manner as previously described.

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.

Female Gender, COPD, Diabetes Requiring Medication and Peripheral Vascular Disease are interpreted in the same manner as CHF-Current in Appendix 1. Number of vessels diseased is comprised of three categories for Appendix 3 (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.

The Sum of Risk Factors Squared term is merely the square of the number of risk factors in Appendix 3 that a patient has (not counting age), and is used to improve the ability of the model to predict mortality.

**Appendix 3** Multivariate Risk-Factor Equation for In-Hospital / 30-Day Deaths During or Following PCI in New York State, 2007-2009 (All Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
<b>Demographic</b>				
Age in years	—	-0.0534	0.0066	—
Age in years squared	—	0.0700	<.0001	—
Female Gender	31.84	0.6394	<.0001	1.895
<b>Hemodynamic State</b>				
Unstable	0.46	2.0870	<.0001	8.060
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 50% or more	74.11	—Reference—		1.000
Ejection Fraction less than 20 %	0.76	1.6705	<.0001	5.315
Ejection Fraction 20-29 %	3.41	1.1722	<.0001	3.229
Ejection Fraction 30-39 %	6.98	0.8525	<.0001	2.346
Ejection Fraction 40-49 %	14.73	0.4766	<.0001	1.611
Pre-Procedural MI				
No Previous MI within 20 days				
MI with ST Elevation	74.20	—Reference—		1.000
MI < 12 hours	9.13	2.5277	<.0001	12.525
MI 12-23 hours	1.03	2.3446	<.0001	10.429
MI without ST Elevation				
MI < 6 hours	0.56	2.3461	<.0001	10.445
MI 6-23 hours	2.17	1.6635	<.0001	5.278
MI With or Without ST Elevation				
MI 1-7 days	11.48	1.4087	<.0001	4.091
MI 8 – 20 days	1.43	1.2402	<.0001	3.456
<b>Comorbidities</b>				
Cerebrovascular Disease	8.09	0.6509	<.0001	1.917
COPD	6.35	0.9096	<.0001	2.483
CHF, Current	5.28	1.0096	<.0001	2.745
Diabetes, requiring medication	33.48	0.4941	<.0001	1.639
Malignant Ventricular Arrhythmia	0.59	1.4627	<.0001	4.318
Peripheral Vascular Disease	7.81	0.6681	<.0001	1.951
Renal Failure				
No Renal Failure	67.50	—Reference—		1.000
Renal Failure, Creatinine 1.2 – 1.5 mg/dl	22.47	0.6214	<.0001	1.861
Renal Failure, Creatinine 1.6 – 2.0 mg/dl	5.67	1.0543	<.0001	2.870
Renal Failure, Creatinine 2.1 – 2.5 mg/dl	1.29	1.2712	<.0001	3.565
Renal Failure, Creatinine 2.6 – 3.0 mg/dl	0.44	1.3668	<.0001	3.923
Renal Failure, Creatinine > 3.0 mg/dl	0.49	1.5644	<.0001	4.780
Renal Failure, Requiring Dialysis	2.14	1.8911	<.0001	6.627
<b>Vessels Diseased</b>				
Number of Vessels Diseased				
Fewer than Two Vessels Diseased	54.60	—Reference—		1.000
Two Vessels Diseased	31.66	0.5453	<.0001	1.725
Three Vessels Diseased	13.74	0.7095	<.0001	2.033
Left Main Disease	3.89	0.8887	<.0001	2.432
<b>Sum of Risk Factors Squared</b>				
Intercept = -6.7789	—	-0.0394	<.0001	—
C Statistic = 0.861				

# Appendix 4

## 2007-2009 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 2007-2009 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. One exception is that in this case, 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 current or past.

**Appendix 4** Multivariate Risk-Factor Equation for In-Hospital / 30-Day Deaths During or Following PCI in New York State, 2007-2009 (Non-Emergency Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
<b>Demographic</b>				
Age in years	—	-0.0551	0.0610	—
Age in years – squared	—	0.0716	0.0007	—
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 50% or more	77.32	—Reference—		1.000
Ejection Fraction less than 20 %	0.70	1.3157	<.0001	3.727
Ejection Fraction 20-29 %	3.03	1.1710	<.0001	3.225
Ejection Fraction 30-39 %	5.92	1.1187	<.0001	3.061
Ejection Fraction 40-49 %	13.03	0.7824	<.0001	2.187
Pre-Procedural MI				
No Previous MI within 20 days	85.24	—Reference—		1.000
MI 1-7 days	13.13	1.4853	<.0001	4.416
MI 8 – 20 days	1.64	1.3531	<.0001	3.870
<b>Comorbidities</b>				
Cerebrovascular Disease	8.58	0.8971	<.0001	2.452
COPD	6.63	1.0560	<.0001	2.875
Congestive Heart Failure (CHF)				
No CHF current or past	92.02	—Reference—		1.000
CHF, Current	5.35	1.2435	<.0001	3.468
CHF, Past but not current	2.63	0.8776	<.0001	2.405
Malignant Ventricular Arrhythmia	0.39	1.4446	<.0001	4.240
Renal Failure				
No Renal Failure	89.61	—Reference—		1.000
Renal Failure, Creatinine 1.6 – 2.0 mg/dl	5.77	1.0353	<.0001	2.816
Renal Failure, Creatinine 2.1 – 2.5 mg/dl	1.33	1.1483	<.0001	3.153
Renal Failure, Creatinine 2.6 – 3.0 mg/dl	0.45	1.4109	<.0001	4.099
Renal Failure, Creatinine > 3.0 mg/dl	0.50	1.6031	<.0001	4.969
Renal Failure, Requiring Dialysis	2.35	1.8723	<.0001	6.503
<b>Vessels Diseased</b>				
Number of Vessels Diseased				
Fewer than Two Vessels Diseased	54.66	—Reference—		1.000
Two Vessels Diseased	31.71	0.6271	<.0001	1.872
Three Vessels Diseased	13.63	0.7235	<.0001	2.062
Left Main Disease	4.03	1.0272	<.0001	2.793
<b>Sum of Risk Factors Squared</b>	—	-0.0719	<.0001	0.931
Intercept =	-6.3775			
C Statistic =	0.829			

# Appendix 5

## 2007-2009 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 2007-2009 time period are presented in the Appendix 5 table below. The interpretation of this table is similar to the interpretation of Appendices 1-4.

**Appendix 5** Multivariate Risk-Factor Equation for In-Hospital / 30-Day Deaths During or Following PCI in New York State, 2007-2009 (Emergency Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
<b>Demographic</b>				
Age: Number of years > 50	—	0.0460	<.0001	1.047
Female Gender	27.13	0.4503	<.0001	1.569
<b>Hemodynamic State</b>				
Unstable	3.53	1.5746	<.0001	4.829
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 40% or more	78.77	—Reference—		1.000
Ejection Fraction less than 20 %	1.22	1.6911	<.0001	5.426
Ejection Fraction 20-29 %	5.95	0.9163	<.0001	2.500
Ejection Fraction 30-39 %	14.06	0.2937	0.0099	1.341
Pre-Procedural MI				
No STEMI within 24 hrs and no Non-STEMI within 6 hrs	17.37	—Reference—		1.000
MI with ST Elevation				
MI < 12 hours	70.36	1.0014	<.0001	2.722
MI 12-23 hours	7.94	0.8334	<.0001	2.301
MI without ST Elevation				
MI < 6 hours	4.33	0.7858	0.0010	2.194
<b>Comorbidities</b>				
COPD	4.48	0.5218	0.0005	1.685
CHF, Current	4.82	0.5969	<.0001	1.816
Malignant Ventricular Arrhythmia	1.94	1.1714	<.0001	3.226
Renal Failure				
No Renal Failure	69.48	—Reference—		1.000
Renal Failure, Creatinine 1.2 - 1.5 mg/dl	22.98	0.5024	<.0001	1.653
Renal Failure, Creatinine 1.6 - 2.0 mg/dl	4.95	0.8710	<.0001	2.389
Renal Failure, Creatinine > 2.0 mg/dl	1.88	1.2549	<.0001	3.507
Renal Failure, Requiring Dialysis	0.72	1.9273	<.0001	6.871
<b>Vessels Diseased</b>				
Number of Vessels Diseased				
Fewer than Two Vessels Diseased	54.19	—Reference—		1.000
Two Vessels Diseased	31.34	0.1998	0.0391	1.221
Three Vessels Diseased	14.47	0.4788	<.0001	1.614
Left Main Disease	2.89	0.4969	0.0030	1.644
Intercept = -6.0912				
C Statistic = 0.829				

## NEW YORK STATE PERCUTANEOUS CORONARY INTERVENTION CENTERS

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

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

\*\* Hospital closed in 2010

†† Hospital started PCI after 2009



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