

# **PERCUTANEOUS CORONARY INTERVENTIONS (PCI)**

in New York State  
2014-2016



**Department  
of Health**

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# INTRODUCTION

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Heart disease is the leading cause of death in New York State (NYS), and the most common form of heart disease is atherosclerotic coronary artery disease. Various treatments are recommended for patients with coronary artery disease. For some people, changes in lifestyle, such as dietary changes, not smoking and regular exercise, can result in great improvements in health. In other cases, medication prescribed for high blood pressure or other conditions can make a significant difference.

Sometimes, however, an interventional procedure is recommended. The two most common procedures performed on patients with coronary artery disease are percutaneous coronary intervention (PCI), also known as percutaneous transluminal coronary angioplasty (PTCA), and coronary artery bypass graft surgery (CABG).

During a PCI procedure, a catheter is threaded up to the site of the blockage in a coronary artery. In conjunction with the catheter, devices are used to open the blockage. In some cases, PCI is used as an emergency treatment for patients who are experiencing a heart attack or who may be in shock. Most cases, however, are not done on an emergency basis.

Those who have a PCI procedure are not cured of coronary artery disease; the disease can still occur in the treated blood vessels or other coronary arteries. In order to minimize new blockages, patients should continue to reduce their risk factors for heart disease.

The analyses contained in this report are based on the information collected on each of the 146,568 patients who underwent PCI in NYS hospitals and were discharged between December 1, 2013, and November 30, 2016. The analysis period for this report includes patients discharged in December 2013 but not those discharged in December 2016. This strategy allows for more timely report publication by eliminating the need to track patients for 30-day mortality into the following calendar year. Inclusion of cases from the previous December allows for meaningful comparison of 12-month volume as found in previous reports. The single year analysis for 2016 cases includes patients discharged from December 1, 2015 through November 30, 2016. Analyses of risk-adjusted mortality rates and associated risk factors for all cases, non-emergency cases (which represent the majority of procedures) and emergency cases are included.

# DEPARTMENT OF HEALTH PROGRAM

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The New York State Department of Health (Department of Health) has been studying the effects of patient and treatment characteristics on outcomes for patients with heart disease for over 25 years. Detailed statistical analyses of the information received from the study have been conducted under the guidance of the Cardiac Advisory Committee, a group of independent practicing cardiac surgeons, cardiologists and other professionals in related fields.

The results have been used to create a cardiac profile system that assesses the performance of hospitals and doctors over time, taking into account the severity of each individual patient's pre-operative conditions. Coronary artery

bypass surgery results have been assessed since 1989; PCI results were released in 1996 for the first time.

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

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

## PATIENT POPULATION

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This report is based on data for patients discharged between December 1, 2013, and November 30, 2016, provided by all 62 non-federal hospitals in NYS where PCI was performed. In total there were 148,165 PCI procedures performed during this time period. The annual number of PCI discharges was: 47,644 in 2014, 49,546 in 2015, and 50,975 in 2016. 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.

There were 364 records excluded from the 2014–2016 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 39 cases excluded from analysis because each 30-day mortality can only be associated with a single PCI.

There were two additional groups of patients excluded based on clinical factors. There were 954 cases with pre-procedure cardiogenic shock excluded from analysis. In addition, 240 patients with hypoxic brain injury who met certain NYS criteria were also excluded from analysis. The following two paragraphs provide further details on these clinical exclusion criteria.

Beginning with patients discharged in 2006, the Department of Health, with the advice of the Cardiac Advisory Committee, began a trial period of excluding any patients meeting the NYS Cardiac Data System definition of preoperative cardiogenic shock from publicly released reports and analyses. Cardiogenic shock is a condition associated with severe hypotension (very low blood pressure); the technical definition used in this report can be found on Page 50. 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 954 cases account for 0.65 percent of all PCI cases in the three years.

Patients were also excluded from analysis when very specific NYS Cardiac Data System criteria for hypoxic brain injury were met. Cases excluded for this reason all involved a pre-PCI cardiac arrest and acute MI (myocardial infarction, aka heart attack) with the patient in a coma-like neurological state prior to the PCI. In



some cases, patients in this condition recover neurologically, although it may be days after the initial event before their neurological status improves. Treating the cardiac condition with PCI can be a lifesaving intervention. However, some patients will never regain consciousness because the injury to the brain caused by lack of oxygen at the time of their cardiac arrest is too severe. After consulting with physicians treating this condition, including the Cardiac Advisory Committee, the Department of Health determined that under certain circumstances these cases should be excluded from analyses. Beginning with cases discharged in 2016, the criteria were expanded so that patients who met the Pre-PCI conditions are excluded, even if the patient did not expire due to the hypoxic brain injury. The specific criteria for exclusion under this policy can be found on Page 53.

While there were 50,337 PCI cases included in the mortality analysis for 2016 discharges, some additional exclusions were required for the readmission analysis. The reasons for exclusion and number of cases affected are described below.

Records belonging to patients residing outside NYS were excluded because there is no reliable way to track out-of state readmissions. This accounted for 2,047 cases. Another 345 patients were excluded because they died in the same admission as their index PCI, so readmission was impossible. Three hundred and eighty-nine patients were transferred to another hospital and

were thus excluded from readmission analysis.

In some cases, patients were readmitted for PCI and then also had a third admission within 30 days of that procedure. No case was counted as both a readmission and an index PCI, resulting in an additional 2,046 exclusions. In addition, 201 patients were excluded due to being discharged Against Medical Advice and 36 patients were deleted due to overlapping dates between index and subsequent hospitalizations.

In total, the number of exclusions was 5,064, leaving 45,273 cases to be examined for 30-day readmission.

#### **NOTE ON HOSPITALS PERFORMING PCI DURING 2014–2016 PERIOD**

Several hospitals began performing PCI during the 2014-2016 time period. The hospital name and the month of the first PCI performed are as follows: Long Island Community Hospital (formerly Brookhaven Memorial Hospital Medical Center) - December 2013; Richmond University Medical Center - November 2014; Saratoga Hospital - January 2015; NYP Lawrence Hospital - May 2015.

The last PCI was performed at Faxton-St. Luke's in Utica in July of 2015.

# RISK ADJUSTMENT FOR ASSESSING PROVIDER PERFORMANCE

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

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

As part of the risk-adjustment process, hospitals in NYS where PCI or TAVR 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 and/or cardiac surgery departments. 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 cardiac registry 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 or TAVR and on deaths that occur after hospital discharge but within 30 days of the procedure. In this report, an in-hospital death is defined as a patient who died

subsequent to PCI or TAVR during the same acute care admission or was discharged to hospice care and expired within 30 days. Data on deaths occurring after discharge from the hospital are made available by the Department of Health, the New York City Department of Health and Mental Hygiene Bureau of Vital Statistics, and the National Death Index.

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

Thirty-day readmission is defined as admission to a NYS non-federal hospital within 30 days of discharge from the index hospitalization when the second admission is not for the purpose of staged PCI or CABG. Also categorized as readmission is any non-staged PCI within 30 days of discharge, even if the second procedure is technically performed on an outpatient basis.

Admission for staged PCI, TAVR or CABG is not counted in this analysis as a readmission. Staged PCI, TAVR, or CABG occurs when the overall treatment plan at the time of the first procedure includes an expectation for the patient to return at a later date for an additional one of these procedures.

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

Staged procedures involving PCI followed by CABG or TAVR are much more rare, but the definition of staging is similar. There were 1,068 staged PCIs and 126 staged cardiac surgeries, including CABG and TAVR, that were not counted as readmissions.

### **Assessing Patient Risk**

Each person who develops coronary artery disease has a unique health history. A cardiac profile system has been developed to evaluate the risk of treatment for each individual patient based on his or her history, weighing the important health facts for that person based on the experiences of thousands of patients who have undergone the same procedures in recent years. All important risk factors for each patient are combined to create his or her risk profile. For example, an 80-year-old patient with a heart attack in the past six hours has a very different risk profile than a 40-year-old who has never suffered a heart attack. The statistical analyses conducted by the Department of Health consist of determining which of the risk factors collected are significantly related to death or readmission and determining how to weight the significant risk factors to predict the chance each patient will have of dying or being readmitted given his or her specific characteristics.

### **Predicting Patient Mortality Rates for Providers**

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

The mortality rate for each hospital and cardiologist is also predicted using the statistical model. This is accomplished by adding the predicted probabilities of death for each of the provider's patients and dividing by the number of patients. The resulting rate is an estimate of what the provider's mortality rate would have been if the hospital's performance was identical to the state performance. The percentage is called the predicted or expected mortality rate

(EMR). A hospital's EMR is contrasted with its observed mortality rate (OMR), which is the number of PCI patients who died divided by the total number of PCI patients.

### **Computing the Risk-Adjusted Mortality Rate**

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

To get the RAMR, the OMR is first divided by the provider's EMR. If the resulting ratio is larger than one, the provider has a higher mortality rate than expected on the basis of its patient mix; if it is smaller than one, the provider has a lower mortality rate than expected from its patient mix. The ratio is then multiplied by the overall statewide rate (1.24 percent in-hospital/30-day in 2016) to obtain the provider's RAMR. There is no Statewide EMR or RAMR, because the statewide data is not risk-adjusted since it comprises the entire population of interest. The Statewide OMR (number of total cases divided by number of total deaths) serves as the basis for comparison for each hospital's EMR and RAMR.

### **Interpreting the Risk-Adjusted Mortality Rate**

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

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

(confidence intervals) are included in the reported results.

Differences in hospital coding of risk factors could be an additional reason that a hospital's RAMR may not be reflective of quality of care.

The Department of Health monitors the quality of coded data by reviewing patients' medical records to ascertain the presence of key risk factors. When significant coding problems are discovered, hospitals are required to correct these data and are subject to subsequent monitoring.

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

Patient risk of 30-day readmission is assessed using the same methods used for assessing mortality risk as described above. All potential risk factors are considered and those that are independently related to readmission are identified and given weights so as to best predict the risk of 30-day readmission for each patient. Observed readmission rates (ORR), expected readmission rates (ERR) and risk-adjusted readmission rates (RARR) are calculated in the same way that OMR, EMR and RAMR are calculated. ERR and RARR are compared to the statewide observed readmission rate (9.13 percent in 2016).

This analysis is based on all-cause readmission, not just readmission directly related to the PCI procedure. Not all readmissions represent a poor patient outcome or reflect poor patient care. However, by risk-adjusting and comparing the results across the many hospitals that perform this procedure we

are able to look for meaningful differences from the overall statewide experience. If the RARR is significantly lower than the statewide readmission rate, the hospital has a better performance than the state as a whole; if the RARR is significantly higher than the statewide readmission rate, the hospital has a worse performance than the state as a whole.

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

### **How This Initiative Contributes to Quality Improvement**

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

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

# DEFINITION OF KEY TERMS

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## Definitions of key terms are as follows:

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

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

The **risk-adjusted mortality rate (RAMR)** is the best estimate, based on the statistical model, of what the provider's mortality rate would have been if the provider had a mix of patients similar to the statewide mix. It is obtained by first dividing the OMR by the EMR, and then multiplying that quotient by the statewide mortality rate (1.24 percent in-hospital/30-day mortality for all PCI patients discharged in 2016).

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

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

The **risk-adjusted readmission rate (RARR)** is the best estimate, based on the statistical model, of what the provider's readmission rate would have been if the provider had a mix of patients similar to the statewide mix. It is obtained by first dividing the ORR by the ERR, and then multiplying that quotient by the statewide readmission rate (9.13 percent 30-day readmission rate for all PCI patients discharged in 2016).

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



## 2016 HOSPITAL OUTCOMES FOR PCI

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Table 1 and Figures 1 and 2 present the PCI mortality results for the 61 non-federal hospitals performing PCI in NYS in 2016. The table contains, for each hospital, the number of PCIs resulting in 2016 discharges, the number of in-hospital/30-day deaths, the OMR, the EMR based on the statistical model presented in Appendix 1, the RAMR and a 95 percent confidence interval for the RAMR. It also contains each hospital's volume of cases and RAMR for non-emergency patients. Emergency patients are defined to be patients in a state of hemodynamic instability (typically associated with very low blood pressure), or patients who experienced a heart attack within 24 hours prior to undergoing PCI. The hospital RAMRs for non-emergency PCI patients are provided because many studies are confined to this group of patients and because these patients comprise the majority of all PCI patients (82.79 percent in 2016).

The overall in-hospital/30-day OMR for the 50,337 PCIs included in this 2016 analysis was 1.24 percent. Observed mortality rates ranged from 0.30 percent to 4.36 percent. The range in EMRs, which measure patient severity of illness, was between 0.66 percent and 2.60 percent. The RAMRs, which measure hospital performance, range from 0.41 percent to 2.81 percent. Based on confidence intervals for RAMRs, three hospitals (Mercy Hospital in Buffalo, Southside Hospital in Bayshore, and The Unity Hospital of Rochester) had RAMRs that were significantly higher than the statewide average. One hospital (NYP-Weill Cornell in Manhattan) had a RAMR that was significantly lower than the statewide average.

The last column of Table 1 presents the hospital RAMRs for non-emergency cases (based on the statistical model presented in Appendix 2). As presented in the last row, the statewide in-hospital/30-day mortality rate for non-emergency cases is 0.84 percent. The range of RAMRs was from 0.00 percent to 2.71 percent. Two hospitals (Albany Medical Center and Southside Hospital in Bayshore) had RAMRs that were significantly higher than the statewide average. One hospital (University Hospital at Stony Brook) had a RAMR that was significantly lower than the statewide rate.

Figures 1 and 2 provide a visual representation of the data displayed in Table 1. For each hospital, the black dot represents the RAMR and the gray bar represents the confidence interval, or potential statistical error, for the RAMR. The black vertical line is the NYS in-hospital/30-day mortality rate. For any hospital where the gray bar crosses the statewide average line, the RAMR is not statistically different from the state as a whole. A gray bar that extends far above and/or below the statewide average indicates that a hospital has a wide confidence interval. This is common when the hospital has a very small number of cases. It does not necessarily mean that the risk-adjusted mortality rate is very high or very low. Hospitals that are statistical outliers will have gray bars (confidence intervals) that are either entirely above or entirely below the line for the statewide rate.

Since the 2016 PCI analysis is based on in-hospital/30-day mortality and excludes cardiogenic refractory shock and hypoxic brain injury cases, the associated mortality rates cannot be compared directly to some previous NYS publications which are based on only in-hospital mortality and include all cases. The observed in-hospital mortality rate (not shown in Table 1) for 2016 PCI discharges was 0.71 percent for the 50,337 patients included in Table 1. For the non-emergency analysis, there were 41,672 patients with an in-hospital mortality rate of 0.34 percent.

Table 2 presents the PCI 30-day readmission results for the 61 non-federal hospitals performing PCI in NYS in 2016. The table contains, for each hospital, the number of PCIs resulting in 2016 discharges, the number of 30-day readmissions, the ORR, the ERR based on the statistical model presented in Appendix 3, the RARR and a 95 percent confidence interval for the RARR. The overall 30-day ORR for the 45,273 PCIs included in this 2016 analysis was 9.13 percent. Observed readmission rates ranged from 3.94 percent to 16.50 percent. The range in ERRs, which measure patient severity of illness, was between 7.38 percent and 13.35 percent. The RARRs, which measure hospital performance, range from 3.97 percent to 15.54 percent.

Based on confidence intervals for RARRs, ten hospitals (BronxCare Health System, Good Samaritan in West Islip, Huntington Hospital, Jamaica Hospital Medical Center, Long Island Jewish Medical Center in New Hyde Park, Montefiore Medical Center - Weiler Hospital in the Bronx, Rochester General Hospital, Southside Hospital in Bayshore, Staten Island University Hospital, and University Hospital Stony Brook) had RARRs that were

significantly higher than the statewide average. Four hospitals (Maimonides Medical Center in Brooklyn, Mount Sinai Hospital in Manhattan, NYU Hospitals Center in Manhattan, and St. Peter's Hospital in Albany) had RARRs that were significantly lower than the statewide average.

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

# Table 1

## In-Hospital / 30-Day Observed, Expected and Risk-Adjusted Mortality Rates for PCI in New York State, 2016 Discharges. (Listed Alphabetically by Hospital)

Hospital	Cases	Deaths	All Cases				95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR	Cases		RAMR	
Albany Med. Ctr	680	17	2.50	1.52	2.03	(1.18, 3.26)	503	1.75 *	
Arnot Ogden Med Ctr	306	3	0.98	1.80	0.68	(0.14, 1.97)	210	0.40	
Bassett Medical Center	570	8	1.40	1.09	1.59	(0.68, 3.13)	460	1.10	
Bellevue Hospital Ctr	456	7	1.54	1.70	1.12	(0.45, 2.31)	366	0.42	
BronxCare Health System	186	2	1.08	1.20	1.11	(0.12, 4.00)	114	1.08	
Brookdale Univ Hosp Med Ctr	222	4	1.80	2.60	0.86	(0.23, 2.20)	170	0.00	
Buffalo General Med Ctr	1545	20	1.29	1.10	1.45	(0.89, 2.25)	1143	1.00	
Cayuga Med Ctr Ithaca	142	3	2.11	2.16	1.21	(0.24, 3.53)	68	1.21	
Crouse Hospital	389	10	2.57	1.37	2.33	(1.11, 4.28)	285	1.42	
Ellis Hospital	521	9	1.73	1.26	1.70	(0.77, 3.22)	328	0.85	
Elmhurst Hospital Ctr	388	4	1.03	0.97	1.31	(0.35, 3.37)	262	0.00	
Glens Falls Hospital	235	3	1.28	1.53	1.03	(0.21, 3.02)	148	1.42	
Good Sam - Suffern	513	6	1.17	1.61	0.90	(0.33, 1.96)	362	0.54	
Good Sam-West Islip	1045	11	1.05	0.72	1.80	(0.90, 3.23)	972	1.25	
Huntington Hospital	559	9	1.61	0.96	2.07	(0.95, 3.93)	459	1.47	
Jamaica Hosp Med Ctr	301	3	1.00	1.29	0.96	(0.19, 2.80)	148	0.85	
Lenox Hill Hospital	1689	13	0.77	0.82	1.16	(0.61, 1.98)	1580	0.87	
Long Island Comm. Hosp.	389	6	1.54	0.91	2.09	(0.76, 4.55)	313	1.58	
Long Island Jewish MC	692	6	0.87	0.99	1.08	(0.40, 2.36)	564	0.62	
Maimonides Medical Ctr	1290	16	1.24	1.84	0.83	(0.48, 1.36)	1049	0.67	
Mercy Hospital-Buffalo	1113	23	2.07	1.16	2.20 *	(1.39, 3.29)	846	1.58	
Montefiore - Moses	978	11	1.12	1.13	1.23	(0.62, 2.21)	859	0.51	
Montefiore - Weiler	639	4	0.63	1.24	0.63	(0.17, 1.60)	508	0.52	
Mount Sinai Beth Israel	1643	12	0.73	0.92	0.99	(0.51, 1.72)	1501	0.40	
Mount Sinai Hospital	3479	36	1.03	0.92	1.39	(0.97, 1.92)	3361	1.07	
Mount Sinai St. Lukes	708	7	0.99	1.71	0.71	(0.29, 1.47)	614	0.54	
NYP-Brooklyn Methodist	1117	15	1.34	1.21	1.37	(0.77, 2.27)	992	1.18	
NYP-Columbia Presby.	2164	17	0.79	1.13	0.86	(0.50, 1.38)	2055	0.58	
NYP-Lawrence Hosp	242	2	0.83	1.08	0.94	(0.11, 3.40)	199	0.62	
NYP-Queens	660	2	0.30	0.91	0.41	(0.05, 1.49)	537	0.32	
NYP-Weill Cornell	1076	8	0.74	1.47	0.63 **	(0.27, 1.24)	956	0.39	
NYU Hospitals Center	1882	15	0.80	0.66	1.50	(0.84, 2.48)	1782	1.23	
NYU Langone Hosp.-Brooklyn	268	3	1.12	1.72	0.81	(0.16, 2.36)	185	0.43	
NYU Winthrop Hospital	1102	10	0.91	1.28	0.87	(0.42, 1.61)	942	0.57	
North Shore Univ Hosp	2411	30	1.24	1.27	1.21	(0.82, 1.73)	2068	0.92	
Olean General Hosp.	161	3	1.86	1.28	1.80	(0.36, 5.27)	91	2.28	
Orange Regional Med Ctr	554	5	0.90	1.21	0.92	(0.30, 2.15)	410	0.87	
Richmond Univ Med Cntr	172	1	0.58	1.53	0.47	(0.01, 2.61)	119	0.00	
Rochester General Hosp	1500	19	1.27	1.19	1.32	(0.79, 2.06)	1232	0.72	
Samaritan Hospital	196	5	2.55	1.58	2.00	(0.65, 4.68)	122	2.71	
Saratoga Hospital	76	1	1.32	1.10	1.48	(0.02, 8.23)	66	1.54	
South Nassau Com. Hosp	464	5	1.08	1.39	0.96	(0.31, 2.23)	330	0.38	
Southside Hospital	786	14	1.78	0.90	2.44 *	(1.33, 4.09)	684	1.93 *	
St. Barnabas Hospital	173	3	1.73	1.23	1.75	(0.35, 5.11)	144	1.30	
St. Catherine of Siena	308	2	0.65	1.17	0.69	(0.08, 2.48)	255	0.00	
St. Elizabeth Med Ctr	978	16	1.64	1.62	1.25	(0.71, 2.03)	766	0.89	
St. Francis Hospital	2731	30	1.10	1.18	1.15	(0.78, 1.65)	2560	0.71	
St. Josephs Hospital	1933	34	1.76	1.60	1.36	(0.94, 1.90)	1455	0.98	
St. Lukes Cornwall Hosp	365	4	1.10	1.48	0.92	(0.25, 2.35)	284	0.66	
St. Peters Hospital	916	13	1.42	1.37	1.28	(0.68, 2.19)	729	0.78	
Staten Island Univ Hosp	750	6	0.80	0.85	1.16	(0.42, 2.52)	606	1.07	
Strong Memorial Hosp	1197	20	1.67	1.39	1.49	(0.91, 2.30)	811	0.87	
UHS-Wilson Med Ctr	736	8	1.09	1.45	0.93	(0.40, 1.83)	586	0.64	
UVM Health Network CVP	602	8	1.33	1.07	1.54	(0.66, 3.04)	431	1.08	
Unity Hospital	344	15	4.36	1.92	2.81 *	(1.57, 4.63)	222	1.75	
Univ. Hosp-Brooklyn	328	6	1.83	2.11	1.07	(0.39, 2.34)	224	0.87	
Univ. Hosp-Stony Brook	1482	19	1.28	1.53	1.04	(0.62, 1.62)	1156	0.30 **	
Univ. Hosp-Upstate	267	7	2.62	1.55	2.10	(0.84, 4.33)	164	2.10	
Vassar Bros. Med Ctr	818	11	1.34	1.58	1.05	(0.52, 1.88)	632	0.62	
Westchester Med Ctr	374	7	1.87	1.99	1.16	(0.47, 2.40)	237	0.55	
White Plains Hospital	526	6	1.14	1.35	1.04	(0.38, 2.27)	447	0.74	
<b>Statewide Total</b>	<b>50337</b>	<b>623</b>	<b>1.24</b>				<b>41672</b>	<b>0.84</b>	

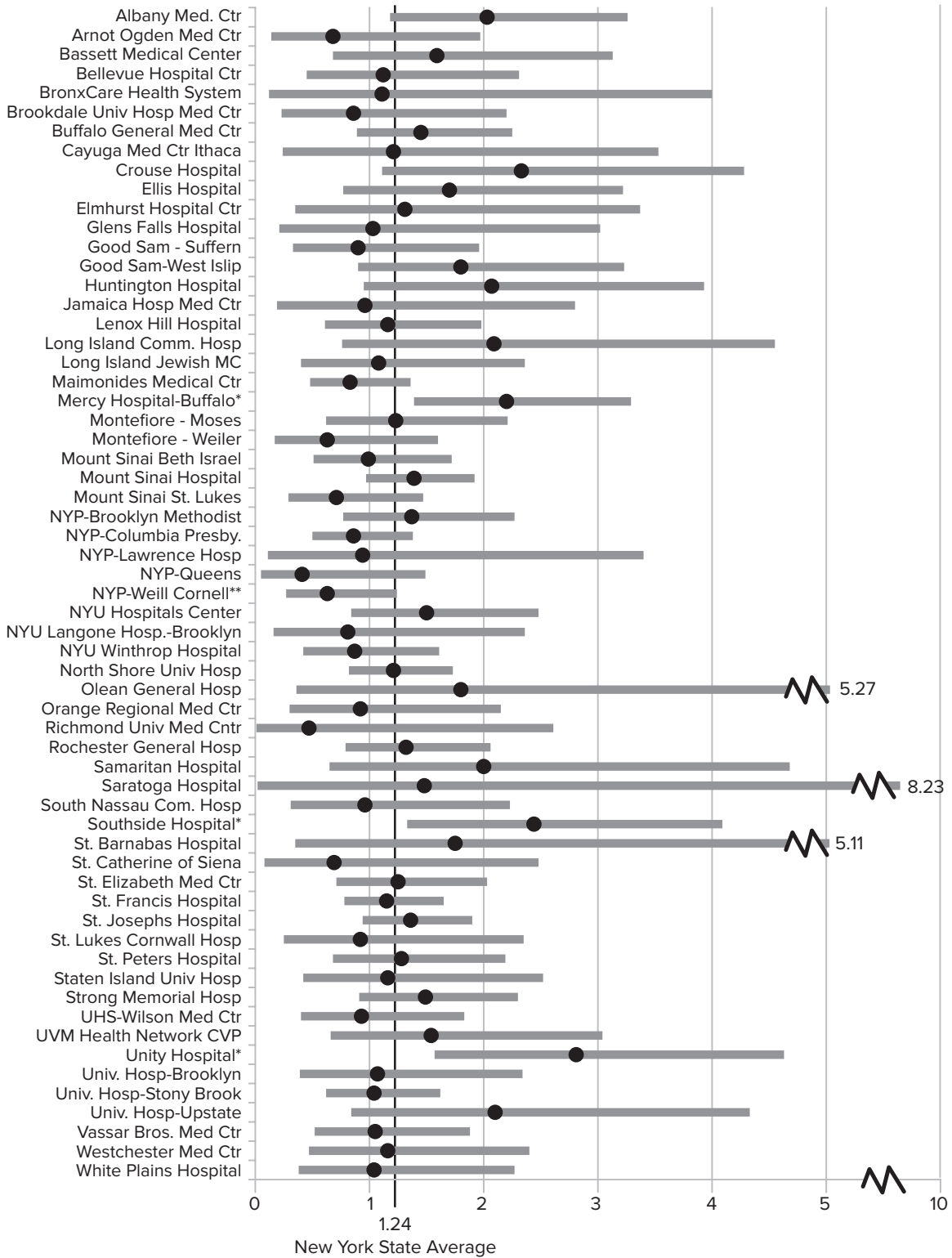
\*Risk-adjusted mortality rate significantly higher than statewide rate based on 95 percent confidence interval.

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



# Figure 1

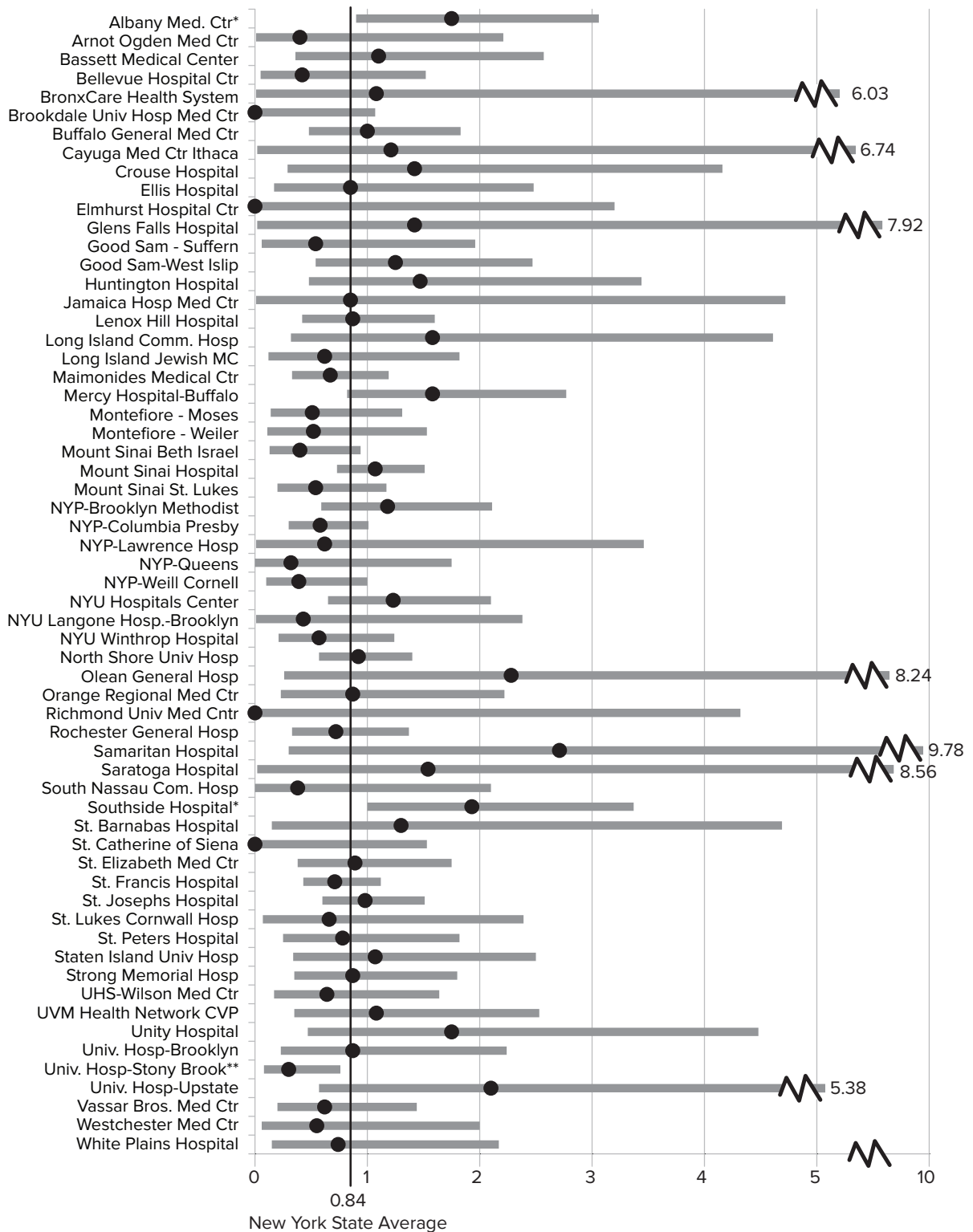
## In-Hospital/30-Day Risk-Adjusted Mortality Rates for PCI in New York State, 2016 Discharges (All Cases)



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, 2016 Discharges (Non-Emergency Cases)



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

## Table 2

### Hospital Observed, Expected and Risk-Adjusted Readmission Rates for All PCI in New York State, 2016

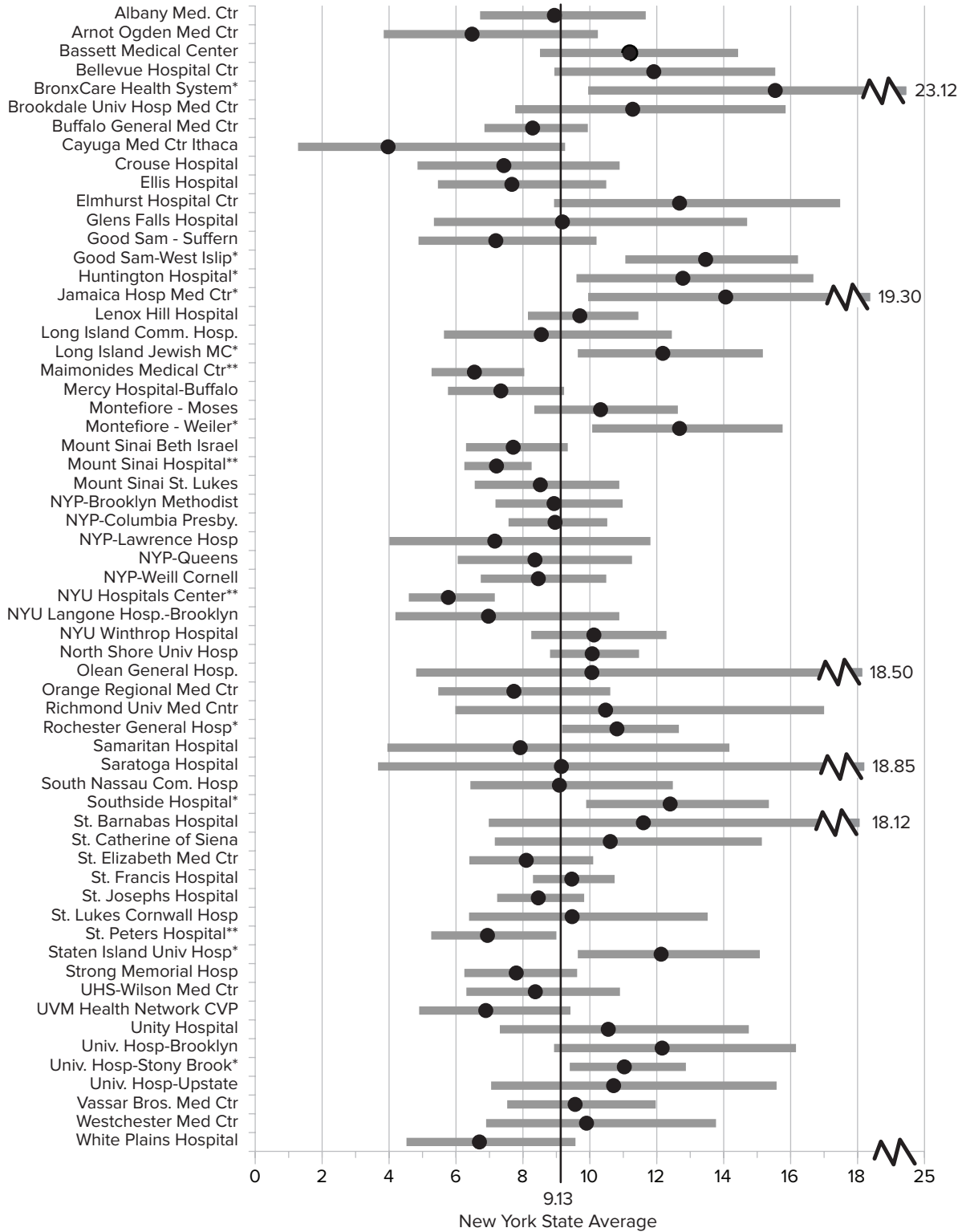
Hospital	Cases	Readmissions	ORR	All Cases		95% CI for RARR
				ERR	RARR	
Albany Med. Ctr	584	54	9.25	9.44	8.94	(6.72,11.67)
Arnot Ogden Med Ctr	259	18	6.95	9.79	6.48	(3.84,10.24)
Bassett Medical Center	531	59	11.11	9.07	11.19	(8.51,14.43)
Bellevue Hospital Ctr	430	54	12.56	9.63	11.91	(8.94,15.54)
BronxCare Health System	161	24	14.91	8.76	15.54 *	(9.95,23.12)
Brookdale Univ Hosp Med Ctr	200	33	16.50	13.35	11.28	(7.77,15.85)
Buffalo General Med Ctr	1439	116	8.06	8.88	8.29	(6.85, 9.94)
Cayuga Med Ctr Ithaca	127	5	3.94	9.06	3.97	(1.28, 9.26)
Crouse Hospital	365	26	7.12	8.75	7.43	(4.85,10.89)
Ellis Hospital	495	39	7.88	9.37	7.67	(5.46,10.49)
Elmhurst Hospital Ctr	347	37	10.66	7.68	12.68	(8.93,17.48)
Glens Falls Hospital	201	17	8.46	8.41	9.18	(5.34,14.70)
Good Sam - Suffern	427	31	7.26	9.22	7.19	(4.88,10.20)
Good Sam-West Islip	965	110	11.40	7.73	13.46 *	(11.1,16.22)
Huntington Hospital	483	54	11.18	7.98	12.78 *	(9.60,16.68)
Jamaica Hosp Med Ctr	280	38	13.57	8.81	14.06 *	(9.95,19.30)
Lenox Hill Hospital	1551	139	8.96	8.44	9.70	(8.15,11.45)
Long Island Comm. Hosp.	360	27	7.50	8.00	8.55	(5.64,12.45)
Long Island Jewish MC	662	79	11.93	8.95	12.18 *	(9.64,15.17)
Maimonides Medical Ctr	1221	91	7.45	10.39	6.55 **	(5.27, 8.04)
Mercy Hospital-Buffalo	1014	73	7.20	8.95	7.34	(5.76, 9.23)
Montefiore - Moses	864	94	10.88	9.62	10.32	(8.34,12.63)
Montefiore - Weiler	608	81	13.32	9.59	12.68 *	(10.1,15.76)
Mount Sinai Beth Israel	1358	104	7.66	9.07	7.71	(6.30, 9.34)
Mount Sinai Hospital	2865	204	7.12	9.02	7.21 **	(6.25, 8.26)
Mount Sinai St. Lukes	635	64	10.08	10.80	8.52	(6.56,10.88)
NYP-Brooklyn Methodist	1031	90	8.73	8.92	8.93	(7.18,10.98)
NYP-Columbia Presby.	1584	148	9.34	9.52	8.96	(7.57,10.52)
NYP-Lawrence Hosp	225	15	6.67	8.50	7.16	(4.01,11.81)
NYP-Queens	636	43	6.76	7.38	8.36	(6.05,11.26)
NYP-Weill Cornell	919	83	9.03	9.75	8.46	(6.74,10.49)
NYU Hospitals Center	1678	82	4.89	7.73	5.77 **	(4.59, 7.16)
NYU Langone Hosp.-Brooklyn	249	19	7.63	10.00	6.97	(4.19,10.88)
NYU Winthrop Hospital	1039	102	9.82	8.85	10.12	(8.25,12.29)
North Shore Univ Hosp	2253	228	10.12	9.17	10.07	(8.81,11.47)
Olean General Hosp.	99	10	10.10	9.17	10.06	(4.81,18.50)
Orange Regional Med Ctr	480	38	7.92	9.35	7.73	(5.47,10.61)
Richmond Univ Med Cntr	159	16	10.06	8.77	10.47	(5.98,17.00)
Rochester General Hosp	1408	154	10.94	9.23	10.81 *	(9.17,12.66)
Samaritan Hospital	153	11	7.19	8.29	7.92	(3.95,14.17)
Saratoga Hospital	71	7	9.86	9.84	9.15	(3.67,18.85)
South Nassau Com. Hosp	437	38	8.70	8.73	9.09	(6.43,12.48)
Southside Hospital	728	84	11.54	8.49	12.40 *	(9.89,15.35)
St. Barnabas Hospital	148	19	12.84	10.10	11.60	(6.98,18.12)
St. Catherine of Siena	276	30	10.87	9.35	10.61	(7.16,15.14)
St. Elizabeth Med Ctr	892	78	8.74	9.86	8.10	(6.40,10.10)
St. Francis Hospital	2479	238	9.60	9.26	9.46	(8.30,10.74)
St. Josephs Hospital	1843	169	9.17	9.90	8.46	(7.23, 9.83)
St. Lukes Cornwall Hosp	323	30	9.29	8.95	9.47	(6.39,13.52)
St. Peters Hospital	861	57	6.62	8.70	6.94 **	(5.26, 9.00)
Staten Island Univ Hosp	706	81	11.47	8.63	12.13 *	(9.64,15.08)
Strong Memorial Hosp	1131	87	7.69	9.00	7.80	(6.25, 9.62)
UHS-Wilson Med Ctr	651	55	8.45	9.21	8.37	(6.31,10.90)
UVM Health Network CVP	576	39	6.77	8.97	6.89	(4.90, 9.42)
Unity Hospital	311	34	10.93	9.46	10.55	(7.31, 14.75)
Univ. Hosp-Brooklyn	307	47	15.31	11.50	12.16	(8.93,16.16)
Univ. Hosp-Stony Brook	1379	162	11.75	9.72	11.03 *	(9.40,12.87)
Univ. Hosp-Upstate	243	27	11.11	9.47	10.71	(7.05,15.58)
Vassar Bros. Med Ctr	772	76	9.84	9.40	9.56	(7.53,11.97)
Westchester Med Ctr	346	35	10.12	9.33	9.90	(6.90,13.77)
White Plains Hospital	448	30	6.70	9.12	6.70	(4.52, 9.57)
<b>Statewide Total</b>	<b>45273</b>	<b>4133</b>	<b>9.13</b>			

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

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

# Figure 3

## 30-Day Risk-Adjusted Readmission Rates for PCI in New York State, 2016 Discharges (All Cases)



## 2014-2016 HOSPITAL DATA FOR PCI AND TAVR

Table 3 provides the number of PCIs, the in-hospital/30-day OMR and RAMR for 2014-2016 for each of three types of PCI patients in the 62 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 2014-2016 are presented in Appendices 4-6, respectively.

As indicated in Table 3, the three-year observed in-hospital/30-day mortality rates for all PCI patients ranged from 0.50 percent to 2.80 percent, and the RAMRs ranged from 0.47 percent to 2.22 percent. Five hospitals (Albany Medical Center, Buffalo General Hospital, Crouse Hospital in Syracuse, Mercy Hospital in Buffalo, and NYP-Brooklyn Methodist Hospital) had RAMRs that were significantly higher than the statewide rate. Four hospitals (Maimonides Medical Center in Brooklyn, Mount Sinai Hospital in Manhattan, NYP-Weill Cornell in Manhattan, and NYU Winthrop Hospital in Mineola) had RAMRs that were significantly lower than the statewide rate. It should be noted that hospitals are more likely to have results that show a statistically significant difference from the statewide rate when three years of data are used than when one year of data is used because the three-year volumes are higher.

Table 3 also presents the three-year in-hospital/30-day RAMRs for non-emergency cases based on the model in Appendix 5. Non-emergency cases comprise 82.38 percent of cases for the period 2014-2016. The statewide in-hospital/30-day mortality rate for the 120,742 non-emergency cases during the 3-year period was 0.77 percent. Observed mortality rates for this group of patients ranged from 0.00 percent to 2.60 percent and the RAMRs ranged from 0.00 to 2.58 percent. Four hospitals (Albany Medical Center, Long Island Community Hospital in Patchogue, NYP-Brooklyn Methodist Hospital, and University Hospital - Upstate in Syracuse) had RAMRs that were significantly higher than

the statewide rate. Four hospitals (Brookdale University Hospital Medical Center, Maimonides Medical Center in Brooklyn, Mount Sinai Hospital in Manhattan, and NYP- Weill Cornell in Manhattan) had RAMRs that were significantly lower than the statewide average for non-emergency cases.

The last three columns in Table 3 present data on emergency cases based on the model in Appendix 6. Emergency cases represented 17.62 percent of cases for the period 2014-2016. The statewide in-hospital/30-day mortality rate for the 25,826 emergency PCI cases during the 3-year period was 3.10 percent. Observed mortality rates for this group ranged from 0.71 percent to 7.89 percent and the RAMRs ranged from 0.97 percent to 5.85 percent. Three hospitals (Crouse Hospital in Syracuse, Mercy Hospital in Buffalo, and NYP-Brooklyn Methodist Hospital) had RAMRs that were significantly above the statewide average for emergency cases. Two hospitals (Maimonides Medical Center in Brooklyn and NYU-Winthrop Hospital in Mineola) had RAMRs that were significantly below the statewide average for emergency cases.

The observed in-hospital mortality rate (not shown in Table 3) for all 146,568 cases included in Table 3 was 0.69 percent. The in-hospital mortality rate was 0.34 percent for the 120,742 non-emergency cases and 2.32 percent for the 25,826 emergency cases. As stated above, all cases with shock and hypoxic brain injury exclusion criteria discharged in 2014-2016 are excluded from these analyses. Therefore, volume and mortality rates for the all cases and emergency cases analyses are not directly comparable to some previously published by the Department of Health.

Table 4 presents the results for transcatheter aortic valve replacement (TAVR) procedures performed at the 26 hospitals performing TAVR during the 2014-2016 discharge period. The table contains, for each hospital, the number of TAVR procedures resulting in 2014-2016 discharges, the number of in-hospital/30-day deaths, the OMR, the EMR based on the statistical model presented in Appendix 7, the RAMR and a 95 percent confidence interval for

the RAMR. Please note, some hospitals listed in Table 4 began performing the procedure during the 2014-2016 reporting period and the number of cases listed does not represent a full three year's program activity. Other hospitals have begun performing the procedure more recently than the time period included in this report.

As indicated in Table 4, the overall in-hospital/30-day mortality rate for the 7,674 TAVR procedures performed at the 26 hospitals was 3.60 percent. The OMRs ranged from 1.82 percent to 8.73 percent. The range of EMRs,

which measure patient severity of illness, was 2.24 percent to 4.64 percent.

The RAMRs, which are used to measure performance, ranged from 1.78 percent to 7.94 percent. Two hospitals (Strong Memorial Hospital in Rochester and University Hospital at Stony Brook) had a RAMR that was statistically higher than the statewide rate. One hospital (NY Presbyterian at Columbia in Manhattan) had a RAMR that was statistically lower than the statewide rate.

**Table 3****In-Hospital / 30-Day Observed and Risk-Adjusted Mortality Rates for PCI in New York State, 2014-2016 Discharges**

Hospital	All Cases			Non-Emergency Cases			Emergency Cases		
	Cases	OMR	RAMR	Cases	OMR	RAMR	Cases	OMR	RAMR
Albany Med. Ctr	2024	2.27	1.98 *	1508	1.86	1.50 *	516	3.49	4.34
Arnot Ogden Med Ctr	1035	1.35	1.15	749	0.80	0.82	286	2.80	2.91
Bassett Medical Center	1563	1.15	1.30	1264	0.71	0.80	299	3.01	3.63
Bellevue Hospital Ctr	1320	1.67	1.13	999	0.50	0.37	321	5.30	4.42
BronxCare Health System	419	2.15	1.21	227	0.88	0.94	192	3.65	3.41
Brookdale Univ Hosp Med Ctr	584	1.20	0.75	403	0.25	0.13 **	181	3.31	3.03
Buffalo General Med Ctr	4571	1.60	1.60 *	3297	0.97	1.04	1274	3.22	4.01
Cayuga Med Ctr Ithaca	452	1.33	0.82	226	0.44	0.50	226	2.21	2.20
Crouse Hospital	965	2.07	2.04 *	698	0.86	1.12	267	5.24	5.85 *
Ellis Hospital	1430	1.47	1.36	886	0.90	1.03	544	2.39	3.04
Elmhurst Hospital Ctr	1272	0.63	0.82	880	0.00	0.00	392	2.04	3.03
Faxton - St. Lukes	436	2.52	1.99	360	1.39	1.43	76	7.89	4.78
Glens Falls Hospital	603	0.50	0.47	363	0.28	0.54	240	0.83	0.97
Good Sam - Suffern	1700	1.88	1.29	1223	0.90	0.66	477	4.40	3.90
Good Sam-West Islip	2975	0.87	1.37	2717	0.59	0.85	258	3.88	4.56
Huntington Hospital	1570	1.08	1.23	1265	0.71	0.92	305	2.62	3.01
Jamaica Hosp Med Ctr	898	1.11	0.84	425	0.71	0.76	473	1.48	2.09
Lenox Hill Hospital	5042	0.81	1.25	4726	0.61	0.81	316	3.80	3.18
Long Island Comm. Hosp.	1026	1.66	1.97	783	1.40	1.94 *	243	2.47	2.82
Long Island Jewish MC	3361	0.92	1.07	2878	0.80	0.83	483	1.66	1.83
Maimonides Medical Ctr	3443	1.07	0.65 **	2751	0.87	0.50 **	692	1.88	1.43 **
Mercy Hospital-Buffalo	3357	1.82	1.82 *	2554	1.14	1.15	803	3.99	4.67 *
Montefiore - Moses	2727	0.95	1.01	2319	0.56	0.57	408	3.19	2.88
Montefiore - Weiler	1741	0.86	0.80	1323	0.45	0.40	418	2.15	2.31
Mount Sinai Beth Israel	4993	0.78	0.98	4593	0.46	0.54	400	4.50	3.20
Mount Sinai Hospital	10888	0.67	0.90 **	10507	0.56	0.58 **	381	3.67	2.84
Mount Sinai St. Lukes	1621	1.48	1.06	1379	1.02	0.63	242	4.13	3.29
NYP-Brooklyn Methodist	3636	1.62	1.86 *	3259	1.04	1.18 *	377	6.63	4.92 *
NYP-Columbia Presby.	6978	0.95	1.02	6557	0.70	0.70	421	4.75	2.40
NYP-Lawrence Hosp	355	0.56	0.64	292	0.34	0.37	63	1.59	1.95
NYP-Queens	1979	0.86	1.18	1544	0.39	0.73	435	2.53	3.28
NYP-Weill Cornell	3328	0.69	0.64 **	2972	0.40	0.38 **	356	3.09	1.99
NYU Hospitals Center	4985	0.76	1.35	4714	0.64	0.96	271	2.95	3.25
NYU Langone Hosp.-Brooklyn	672	1.04	0.71	490	0.61	0.43	182	2.20	2.00
NYU Winthrop Hospital	3072	0.75	0.69 **	2609	0.54	0.49	463	1.94	1.60 **
North Shore Univ Hosp	6780	1.02	1.03	5829	0.84	0.77	951	2.10	2.16
Olean General Hosp.	478	1.46	1.47	243	0.82	0.95	235	2.13	4.11
Orange Regional Med Ctr	1517	0.79	0.84	1092	0.82	0.77	425	0.71	1.17
Richmond Univ Med Ctr	292	0.68	0.67	209	0.48	0.74	83	1.20	1.07
Rochester General Hosp	4668	1.26	1.36	3756	0.83	0.86	912	3.07	3.69
Samaritan Hospital	606	1.65	1.61	369	1.08	2.16	237	2.53	2.95
Saratoga Hospital	163	2.45	2.22	137	2.19	1.99	26	3.85	4.78
South Nassau Com. Hosp	1390	1.37	1.41	1003	1.10	1.35	387	2.07	2.65
Southside Hospital	2142	1.03	1.22	1844	0.98	1.03	298	1.34	1.65
St. Barnabas Hospital	474	1.69	1.89	382	0.79	0.89	92	5.43	5.46
St. Catherine of Siena	887	1.01	1.08	709	0.28	0.32	178	3.93	4.60
St. Elizabeth Med Ctr	2391	1.71	1.40	1926	0.99	0.83	465	4.73	3.88
St. Francis Hospital	8035	1.06	1.13	7530	0.78	0.72	505	5.15	3.29
St. Josephs Hospital	5777	1.49	1.22	4350	1.15	0.91	1427	2.52	2.76
St. Lukes Cornwall Hosp	892	1.46	1.12	644	0.93	0.78	248	2.82	2.65
St. Peters Hospital	2602	1.35	1.39	2025	0.89	0.99	577	2.95	3.37
Staten Island Univ Hosp	2238	0.89	1.26	1839	0.71	0.98	399	1.75	2.65
Strong Memorial Hosp	3009	1.33	1.19	2033	0.84	0.92	976	2.36	2.80
UHS-Wilson Med Ctr	2153	1.49	1.27	1631	0.67	0.72	522	4.02	3.57
UVM Health Network CVP	1735	1.44	1.66	1290	1.09	1.21	445	2.47	3.75
Unity Hospital	920	2.50	1.65	631	0.95	0.90	289	5.88	4.43
Univ. Hosp-Brooklyn	908	2.31	1.27	588	1.19	0.66	320	4.38	3.21
Univ. Hosp-Stony Brook	4159	1.54	1.19	3157	0.86	0.70	1002	3.69	3.36
Univ. Hosp-Upstate	643	2.80	1.95	385	2.60	2.58 *	258	3.10	3.31
Vassar Bros. Med Ctr	2199	1.46	1.14	1600	0.75	0.59	599	3.34	3.33
Westchester Med Ctr	1175	1.87	1.16	717	1.12	0.82	458	3.06	2.94
White Plains Hospital	1314	1.22	1.13	1083	0.65	0.73	231	3.90	2.85
<b>Statewide Total</b>	<b>146568</b>	<b>1.18</b>		<b>120742</b>	<b>0.77</b>		<b>25826</b>	<b>3.10</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.



## Table 4

### In-hospital/30-Day Observed, Expected and Risk-Adjusted Mortality Rates for TAVR in New York State, 2014-2016 Discharges (Listed Alphabetically by Hospital)

Hospital	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR
Albany Med. Ctr	467	18	3.85	3.12	4.45	(2.63, 7.03)
Buffalo General Med Ctr	407	11	2.70	3.17	3.06	(1.53, 5.48)
Lenox Hill Hospital	182	5	2.75	3.39	2.91	(0.94, 6.80)
Long Island Jewish MC	55	1	1.82	3.66	1.79	(0.02, 9.95)
Maimonides Medical Ctr	182	8	4.40	3.00	5.27	(2.27,10.38)
Mercy Hospital-Buffalo	42	1	2.38	3.38	2.53	(0.03,14.10)
Montefiore - Moses	123	6	4.88	3.98	4.41	(1.61, 9.60)
Montefiore - Weiler	75	2	2.67	2.24	4.28	(0.48,15.46)
Mount Sinai Hospital	608	30	4.93	4.02	4.41	(2.97, 6.30)
NYP-Brooklyn Methodist	63	3	4.76	3.12	5.49	(1.10,16.05)
NYP-Columbia Presby.	1043	24	2.30	4.64	1.78**	(1.14, 2.65)
NYP-Weill Cornell	384	13	3.39	3.41	3.57	(1.90, 6.11)
NYU Hospitals Center	607	16	2.64	2.43	3.91	(2.23, 6.35)
NYU Winthrop Hospital	655	22	3.36	3.51	3.45	(2.16, 5.22)
North Shore Univ Hosp	496	17	3.43	3.56	3.46	(2.01, 5.54)
Rochester General Hosp	101	5	4.95	4.55	3.92	(1.26, 9.14)
Southside Hospital	135	4	2.96	2.97	3.59	(0.96, 9.18)
St. Elizabeth Med Ctr	34	1	2.94	3.50	3.02	(0.04,16.80)
St. Francis Hospital	805	26	3.23	3.62	3.21	(2.10, 4.70)
St. Josephs Hospital	354	17	4.80	3.67	4.71	(2.74, 7.54)
St. Peters Hospital	125	5	4.00	2.98	4.83	(1.56,11.28)
Strong Memorial Hosp	216	16	7.41	4.04	6.60*	(3.77,10.72)
UHS-Wilson Med Ctr	104	3	2.88	3.17	3.27	(0.66, 9.55)
Univ. Hosp-Stony Brook	126	11	8.73	3.96	7.94*	(3.96,14.20)
Vassar Bros. Med Ctr	39	2	5.13	3.16	5.84	(0.66,21.08)
Westchester Med Ctr	246	9	3.66	3.97	3.32	(1.51, 6.30)
<b>STATEWIDE TOTAL</b>	<b>7674</b>	<b>276</b>	<b>3.60</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.



## 2014-2016 HOSPITAL AND CARDIOLOGIST DATA FOR PCI

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Table 5 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 2014-2016 for cardiologists in each of the 62 hospitals performing PCI during the time period and for each of the hospitals. Table 5 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 2014-2016, and/or (b) performed at least one PCI in each of the years 2014-2016. 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 2014-2016.

Also, cardiologists who met criterion (a) or (b) above and have performed PCI in two or more NYS hospitals are listed separately in Table 6.

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 5 and 6.

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 5

## Cardiologist In-Hospital / 30-Day Observed, Expected, and Risk-Adjusted Mortality Rates for PCI in New York State, 2014 - 2016 Discharges

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
<b>Statewide Total</b>	<b>146568</b>	<b>1736</b>	<b>1.18</b>				<b>120742</b>	<b>0.77</b>
<b>Albany Medical Center</b>								
##Delago A	642	20	3.12	1.25	2.95 *	(1.80, 4.55)	550	2.10 *
El-Hajjar M	255	6	2.35	1.77	1.58	(0.58, 3.43)	150	1.82
##Esper D	289	3	1.04	0.98	1.25	(0.25, 3.66)	216	1.58
##Maroney J	272	7	2.57	1.44	2.11	(0.85, 4.36)	204	0.51
Nappi A	463	8	1.73	1.36	1.50	(0.65, 2.96)	349	0.83
##Papaleo R	28	1	3.57	2.68	1.58	(0.02, 8.79)	6	0.00
##Winston B	74	1	1.35	1.57	1.02	(0.01, 5.66)	32	0.00
All Others	1	0	0.00	0.72	0.00	(0.00,100.0)	1	0.00
<b>TOTAL</b>	<b>2024</b>	<b>46</b>	<b>2.27</b>	<b>1.36</b>	<b>1.98 *</b>	<b>(1.45, 2.64)</b>	<b>1508</b>	<b>1.50 *</b>
<b>Arnot-Ogden Medical Center</b>								
#Amin N	312	3	0.96	1.35	0.84	(0.17, 2.46)	224	0.43
Grella R	398	5	1.26	1.00	1.50	(0.48, 3.49)	303	1.22
Lakhani M	274	4	1.46	1.88	0.92	(0.25, 2.36)	194	0.46
#Sharma A	3	0	0.00	2.99	0.00	(0.00,48.47)	.	.
#Yarkoni A	18	2	11.11	2.38	5.52	(0.62,19.94)	10	12.63
All Others	30	0	0.00	1.93	0.00	(0.00, 7.50)	18	0.00
<b>TOTAL</b>	<b>1035</b>	<b>14</b>	<b>1.35</b>	<b>1.39</b>	<b>1.15</b>	<b>(0.63, 1.93)</b>	<b>749</b>	<b>0.82</b>
<b>Bassett Medical Center</b>								
#Kreps E	17	2	11.76	4.27	3.26	(0.37,11.78)	8	0.00
##Malpeso J	1	0	0.00	1.05	0.00	(0.00,100.0)	.	.
McNulty P	526	7	1.33	1.01	1.57	(0.63, 3.23)	411	1.58
Menzies D	823	5	0.61	0.96	0.75	(0.24, 1.75)	710	0.45
##Sastry A	131	2	1.53	1.28	1.41	(0.16, 5.11)	94	0.00
All Others	65	2	3.08	1.31	2.78	(0.31,10.02)	41	3.16
<b>TOTAL</b>	<b>1563</b>	<b>18</b>	<b>1.15</b>	<b>1.05</b>	<b>1.30</b>	<b>(0.77, 2.05)</b>	<b>1264</b>	<b>0.80</b>
<b>Bellevue Hospital Center</b>								
#Attubato M	8	0	0.00	2.86	0.00	(0.00,18.99)	1	0.00
#Babaev A	10	0	0.00	2.68	0.00	(0.00,16.20)	1	0.00
#Bangalore S	403	9	2.23	2.04	1.29	(0.59, 2.46)	312	0.41
#Coppola J	197	3	1.52	1.37	1.32	(0.27, 3.86)	143	0.60
#Feit F	5	0	0.00	0.79	0.00	(0.00,100.0)	2	0.00
#Hegde S	116	0	0.00	1.12	0.00	(0.00, 3.35)	116	0.00
#Iqbal S	287	1	0.35	1.30	0.32	(0.00, 1.77)	232	0.00
Kurian D	49	0	0.00	0.38	0.00	(0.00,23.33)	49	0.00
#Razzouk L	23	1	4.35	4.38	1.18	(0.02, 6.55)	5	0.00
#Serrano-Gomez C	22	1	4.55	4.70	1.15	(0.01, 6.38)	6	7.88
#Shah B	150	2	1.33	1.66	0.95	(0.11, 3.44)	109	0.55
#Slater J	6	1	16.67	7.87	2.51	(0.03,13.96)	1	0.00
#Staniloae C	8	2	25.00	4.41	6.72	(0.75,24.26)	2	0.00
All Others	36	2	5.56	2.88	2.28	(0.26, 8.24)	20	0.00
<b>TOTAL</b>	<b>1320</b>	<b>22</b>	<b>1.67</b>	<b>1.75</b>	<b>1.13</b>	<b>(0.71, 1.71)</b>	<b>999</b>	<b>0.37</b>
<b>BronxCare Health System</b>								
##Amsalem Y	66	1	1.52	1.47	1.22	(0.02, 6.81)	47	1.24
##Celaj S	40	4	10.00	3.76	3.15	(0.85, 8.07)	4	27.41
##Johnson M	8	0	0.00	3.46	0.00	(0.00,15.68)	2	0.00
##Krim N	292	4	1.37	2.05	0.79	(0.21, 2.02)	166	0.00
#Limaye A	13	0	0.00	0.57	0.00	(0.00,58.79)	8	0.00
<b>TOTAL</b>	<b>419</b>	<b>9</b>	<b>2.15</b>	<b>2.10</b>	<b>1.21</b>	<b>(0.55, 2.30)</b>	<b>227</b>	<b>0.94</b>
<b>Brookdale Univ. Hospital Medical Ctr</b>								
#Castillo R	308	4	1.30	1.70	0.90	(0.24, 2.31)	221	0.24
#Chadow H	237	3	1.27	2.04	0.73	(0.15, 2.14)	153	0.00
All Others	39	0	0.00	2.35	0.00	(0.00, 4.74)	29	0.00
<b>TOTAL</b>	<b>584</b>	<b>7</b>	<b>1.20</b>	<b>1.88</b>	<b>0.75</b>	<b>(0.30, 1.55)</b>	<b>403</b>	<b>0.13 **</b>

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>Buffalo General Medical Center</b>								
#Calandra S	1	0	0.00	1.32	0.00	(0.00,100.0)	1	0.00
#Conley J	600	7	1.17	1.17	1.18	(0.47, 2.43)	460	0.84
Dashkoff N	526	8	1.52	1.21	1.48	(0.64, 2.93)	390	0.74
#Emerson R	1	0	0.00	0.25	0.00	(0.00,100.0)	1	0.00
#Farhi E	772	11	1.42	0.98	1.72	(0.86, 3.07)	582	0.83
#Gelormini J	15	0	0.00	0.38	0.00	(0.00,75.87)	15	0.00
#Iyer V	553	9	1.63	1.32	1.46	(0.67, 2.77)	382	0.59
#Masud ARZ	7	0	0.00	0.25	0.00	(0.00,100.0)	7	0.00
##Morris W	769	13	1.69	1.08	1.85	(0.98, 3.16)	626	1.31
##Phadke K	634	14	2.21	1.43	1.82	(1.00, 3.06)	411	1.45
#Sullivan P	200	3	1.50	1.50	1.18	(0.24, 3.45)	98	0.99
Zlotnick D	418	7	1.67	1.23	1.61	(0.65, 3.33)	252	1.56
All Others	75	1	1.33	0.30	5.30	(0.07,29.50)	72	4.16
<b>TOTAL</b>	<b>4571</b>	<b>73</b>	<b>1.60</b>	<b>1.19</b>	<b>1.60 *</b>	<b>(1.25, 2.01)</b>	<b>3297</b>	<b>1.04</b>
<b>Cayuga Medical Center</b>								
#Kreps E	41	1	2.44	2.70	1.07	(0.01, 5.96)	21	0.00
##Ong L S	1	0	0.00	1.54	0.00	(0.00,100.0)	.	.
Stefek P	261	3	1.15	1.60	0.85	(0.17, 2.48)	133	0.00
##Stuver T	2	0	0.00	3.79	0.00	(0.00,57.28)	.	.
All Others	147	2	1.36	2.24	0.72	(0.08, 2.59)	72	1.38
<b>TOTAL</b>	<b>452</b>	<b>6</b>	<b>1.33</b>	<b>1.92</b>	<b>0.82</b>	<b>(0.30, 1.78)</b>	<b>226</b>	<b>0.50</b>
<b>Crouse Hospital</b>								
Battaglia J	510	11	2.16	1.18	2.17	(1.08, 3.89)	387	0.95
George A	455	9	1.98	1.23	1.91	(0.87, 3.62)	311	1.38
<b>TOTAL</b>	<b>965</b>	<b>20</b>	<b>2.07</b>	<b>1.20</b>	<b>2.04 *</b>	<b>(1.25, 3.16)</b>	<b>698</b>	<b>1.12</b>
<b>Ellis Hospital</b>								
Cospito P	370	6	1.62	1.09	1.76	(0.64, 3.82)	256	1.41
Jordan M	230	6	2.61	1.51	2.05	(0.75, 4.46)	114	1.92
Parkes R	452	5	1.11	1.09	1.20	(0.39, 2.80)	300	0.92
Weitz S	267	4	1.50	1.58	1.12	(0.30, 2.87)	153	0.79
All Others	111	0	0.00	1.39	0.00	(0.00, 2.82)	63	0.00
<b>TOTAL</b>	<b>1430</b>	<b>21</b>	<b>1.47</b>	<b>1.27</b>	<b>1.36</b>	<b>(0.84, 2.09)</b>	<b>886</b>	<b>1.03</b>
<b>Elmhurst Hospital Center</b>								
#Barman N	25	1	4.00	2.64	1.79	(0.02, 9.99)	1	0.00
Kamran M	748	0	0.00	0.71	0.00 **	(0.00, 0.81)	566	0.00
##Pyo R	50	2	4.00	3.47	1.36	(0.15, 4.92)	2	0.00
##Wiley J	10	1	10.00	3.03	3.91	(0.05,21.78)	.	.
#Yatskar L	438	4	0.91	0.80	1.35	(0.36, 3.46)	311	0.00
All Others	1	0	0.00	6.68	0.00	(0.00,65.02)	.	.
<b>TOTAL</b>	<b>1272</b>	<b>8</b>	<b>0.63</b>	<b>0.91</b>	<b>0.82</b>	<b>(0.35, 1.61)</b>	<b>880</b>	<b>0.00</b>
<b>Faxton-St. Lukes Hlthcare- St.Lukes Div</b>								
##Bhan R	12	1	8.33	3.56	2.77	(0.04,15.43)	7	0.00
#Kelberman M	9	0	0.00	1.67	0.00	(0.00,28.85)	4	0.00
##Kozman H	5	1	20.00	2.17	10.90	(0.14,60.63)	2	0.00
#Kudagi V	110	1	0.91	1.46	0.74	(0.01, 4.11)	103	0.00
#Kumar P	26	2	7.69	2.55	3.57	(0.40,12.90)	21	0.00
#Maclsaac H	30	2	6.67	3.13	2.52	(0.28, 9.11)	20	1.73
#Mathew T C	62	2	3.23	0.86	4.44	(0.50,16.04)	56	3.68
#Patel A	10	0	0.00	1.31	0.00	(0.00,33.22)	6	0.00
#Sassower M	30	0	0.00	2.96	0.00	(0.00, 4.90)	17	0.00
#Varma P	16	0	0.00	1.23	0.00	(0.00,22.00)	12	0.00
All Others	126	2	1.59	0.73	2.58	(0.29, 9.32)	112	2.44
<b>TOTAL</b>	<b>436</b>	<b>11</b>	<b>2.52</b>	<b>1.50</b>	<b>1.99</b>	<b>(0.99, 3.56)</b>	<b>360</b>	<b>1.43</b>

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>Glens Falls Hospital</b>								
Bashir I	308	3	0.97	1.41	0.82	(0.16, 2.38)	187	1.21
##Delago A	1	0	0.00	0.12	0.00	(0.00,100.0)	1	0.00
Hogan R	273	0	0.00	1.05	0.00	(0.00, 1.52)	173	0.00
##Papaleo R	16	0	0.00	1.87	0.00	(0.00,14.51)	1	0.00
##Sastry A	2	0	0.00	0.43	0.00	(0.00,100.0)	.	.
All Others	3	0	0.00	1.67	0.00	(0.00,86.57)	1	0.00
<b>TOTAL</b>	<b>603</b>	<b>3</b>	<b>0.50</b>	<b>1.26</b>	<b>0.47</b>	<b>(0.09, 1.37)</b>	<b>363</b>	<b>0.54</b>
<b>Good Samaritan Hosp Med Ctr- West Islip</b>								
##Arkonac B	25	0	0.00	0.66	0.00	(0.00,26.43)	25	0.00
##Caselnova R	429	6	1.40	0.85	1.96	(0.72, 4.26)	384	1.29
#Chengot T	159	2	1.26	1.13	1.32	(0.15, 4.75)	134	0.96
##Deutsch E	500	4	0.80	0.63	1.50	(0.40, 3.85)	473	0.79
##Franco J	82	0	0.00	0.97	0.00	(0.00, 5.44)	76	0.00
#Gandotra P	61	1	1.64	1.05	1.85	(0.02,10.32)	61	1.20
##Hormozi S	564	3	0.53	0.76	0.83	(0.17, 2.42)	515	0.55
#Lee P J	606	4	0.66	0.58	1.36	(0.37, 3.47)	566	1.31
##Patel R B	80	4	5.00	1.63	3.64	(0.98, 9.33)	41	0.00
#Reich D	454	2	0.44	0.68	0.77	(0.09, 2.77)	427	0.64
All Others	15	0	0.00	0.52	0.00	(0.00,55.91)	15	0.00
<b>TOTAL</b>	<b>2975</b>	<b>26</b>	<b>0.87</b>	<b>0.75</b>	<b>1.37</b>	<b>(0.90, 2.01)</b>	<b>2717</b>	<b>0.85</b>
<b>Good Samaritan Hospital of Suffern</b>								
#Agarwal A	149	1	0.67	1.29	0.61	(0.01, 3.42)	103	0.00
##Gotsis W	1	0	0.00	0.61	0.00	(0.00,100.0)	1	0.00
Hirsch C	282	2	0.71	1.42	0.59	(0.07, 2.14)	230	0.35
Innerfield M	152	5	3.29	2.37	1.64	(0.53, 3.84)	74	1.15
Kovar L	320	6	1.88	1.60	1.39	(0.51, 3.02)	253	0.68
##Rozzman R	2	1	50.00	1.50	39.42	(0.52,100.0)	.	.
#Shah A R	312	4	1.28	1.91	0.80	(0.21, 2.04)	251	0.63
Shih A C	175	7	4.00	1.86	2.55	(1.02, 5.25)	110	2.14
Singh R	224	5	2.23	1.84	1.44	(0.46, 3.35)	148	0.64
All Others	83	1	1.20	1.65	0.87	(0.01, 4.82)	53	0.00
<b>TOTAL</b>	<b>1700</b>	<b>32</b>	<b>1.88</b>	<b>1.73</b>	<b>1.29</b>	<b>(0.88, 1.82)</b>	<b>1223</b>	<b>0.66</b>
<b>Huntington Hospital</b>								
##Bagga R	580	6	1.03	1.00	1.22	(0.45, 2.66)	489	0.71
##Ong L Y	151	0	0.00	0.55	0.00	(0.00, 5.20)	131	0.00
##Patcha R	230	2	0.87	1.03	1.00	(0.11, 3.62)	180	0.00
##Polena S	359	5	1.39	1.03	1.61	(0.52, 3.75)	299	1.65
##Strizik B	250	4	1.60	1.46	1.30	(0.35, 3.32)	166	1.47
<b>TOTAL</b>	<b>1570</b>	<b>17</b>	<b>1.08</b>	<b>1.04</b>	<b>1.23</b>	<b>(0.72, 1.97)</b>	<b>1265</b>	<b>0.92</b>
<b>Jamaica Hospital Medical Center</b>								
#Jain S	237	4	1.69	2.06	0.97	(0.26, 2.48)	107	1.09
#Lasic Z	251	3	1.20	1.80	0.79	(0.16, 2.29)	109	0.94
#Mangla A	188	2	1.06	1.09	1.16	(0.13, 4.19)	100	1.13
#Raza J	216	1	0.46	1.21	0.45	(0.01, 2.52)	103	0.00
#Suleman J	6	0	0.00	0.23	0.00	(0.00,100.0)	6	0.00
<b>TOTAL</b>	<b>898</b>	<b>10</b>	<b>1.11</b>	<b>1.57</b>	<b>0.84</b>	<b>(0.40, 1.55)</b>	<b>425</b>	<b>0.76</b>
<b>Lenox Hill Hospital</b>								
#Coven D	82	1	1.22	2.36	0.61	(0.01, 3.41)	64	0.96
##Dominguez-Echeva	8	0	0.00	0.42	0.00	(0.00,100.0)	8	0.00
##Fernaine G	13	0	0.00	0.32	0.00	(0.00,100.0)	13	0.00
#Gujja K	4	0	0.00	0.18	0.00	(0.00,100.0)	4	0.00
Hassid B	444	5	1.13	0.97	1.38	(0.45, 3.22)	397	1.25
Iyer S	70	0	0.00	0.72	0.00	(0.00, 8.68)	63	0.00
#Jain S	230	2	0.87	0.62	1.67	(0.19, 6.04)	227	0.60
##Kesanakurthy S	17	0	0.00	0.72	0.00	(0.00,35.43)	17	0.00
##Kim M	730	5	0.68	0.95	0.86	(0.28, 2.00)	659	0.73
Kukar A	291	0	0.00	0.58	0.00	(0.00, 2.56)	261	0.00
#Lasic Z	213	0	0.00	0.54	0.00	(0.00, 3.77)	208	0.00
#Mangla A	172	2	1.16	0.60	2.30	(0.26, 8.32)	169	1.51

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>Lenox Hill Hospital, continued</b>								
##Poumpouridis K	16	0	0.00	0.71	0.00	(0.00,38.20)	10	0.00
#Punukollu G	387	6	1.55	0.71	2.57	(0.94, 5.60)	376	1.54
#Raza J	362	5	1.38	0.77	2.13	(0.69, 4.98)	352	1.56
Reimers C	776	5	0.64	0.54	1.42	(0.46, 3.31)	739	0.46
##Shah A	123	1	0.81	0.48	2.00	(0.03,11.11)	123	1.24
##Singh V	787	5	0.64	0.68	1.11	(0.36, 2.60)	758	0.68
##Snyder S	1	0	0.00	0.33	0.00	(0.00,100.0)	1	0.00
#Stathopoulos I	37	0	0.00	1.06	0.00	(0.00,11.08)	36	0.00
##Weinberg M	22	0	0.00	0.67	0.00	(0.00,29.46)	21	0.00
Zaric M	22	2	9.09	4.85	2.22	(0.25, 8.02)	11	0.00
All Others	235	2	0.85	1.05	0.96	(0.11, 3.46)	209	0.00
<b>TOTAL</b>	<b>5042</b>	<b>41</b>	<b>0.81</b>	<b>0.77</b>	<b>1.25</b>	<b>(0.89, 1.69)</b>	<b>4726</b>	<b>0.81</b>
<b>Long Island Community Hospital</b>								
##Bench T	198	0	0.00	1.13	0.00	(0.00, 1.95)	137	0.00
##Caselnova R	3	0	0.00	2.16	0.00	(0.00,66.91)	.	.
##Franco J	20	0	0.00	0.45	0.00	(0.00,47.83)	16	0.00
#Gambino A	40	0	0.00	0.54	0.00	(0.00,20.16)	36	0.00
##Joseph S	34	0	0.00	0.74	0.00	(0.00,17.35)	33	0.00
#Khan W	527	11	2.09	0.95	2.61*	(1.30, 4.67)	420	2.39*
##Patel R B	11	0	0.00	1.38	0.00	(0.00,28.52)	1	0.00
#Pulipati B	133	5	3.76	1.37	3.25	(1.05, 7.58)	90	4.21*
#Schwartz R	37	1	2.70	0.86	3.71	(0.05,20.62)	30	4.34
All Others	23	0	0.00	0.43	0.00	(0.00,44.27)	20	0.00
<b>TOTAL</b>	<b>1026</b>	<b>17</b>	<b>1.66</b>	<b>1.00</b>	<b>1.97</b>	<b>(1.14, 3.15)</b>	<b>783</b>	<b>1.94*</b>
<b>Long Island Jewish Medical Center</b>								
##Arkonac B	5	0	0.00	0.28	0.00	(0.00,100.0)	5	0.00
##Bagga R	13	0	0.00	1.23	0.00	(0.00,27.07)	13	0.00
#Boutis L	29	1	3.45	2.22	1.84	(0.02,10.24)	5	19.53
#Dhama B	168	3	1.79	0.90	2.35	(0.47, 6.87)	161	1.60
#Freeman J	11	0	0.00	1.69	0.00	(0.00,23.38)	11	0.00
##Friedman G H	6	0	0.00	0.29	0.00	(0.00,100.0)	6	0.00
##Fuschetto D	43	0	0.00	0.71	0.00	(0.00,14.17)	42	0.00
##Fuschetto O	8	0	0.00	0.78	0.00	(0.00,70.07)	8	0.00
##Grunwald A	97	2	2.06	0.62	3.96	(0.44,14.30)	93	3.42
#Gupta R	63	0	0.00	0.92	0.00	(0.00, 7.49)	60	0.00
##Hameedi A	380	0	0.00	0.41	0.00	(0.00, 2.79)	377	0.00
#Husain S I	31	0	0.00	0.53	0.00	(0.00,26.69)	31	0.00
#Jauhar R	530	3	0.57	1.15	0.58	(0.12, 1.71)	458	0.52
##Joseph S	1	0	0.00	0.41	0.00	(0.00,100.0)	1	0.00
#Kaplan B	28	0	0.00	0.88	0.00	(0.00,17.67)	16	0.00
#Katz S	9	1	11.11	6.38	2.06	(0.03,11.48)	1	0.00
##Kim M	15	1	6.67	1.95	4.06	(0.05,22.57)	4	0.00
##Koss J	182	2	1.10	0.58	2.26	(0.25, 8.16)	171	1.92
#Lee A	592	6	1.01	1.12	1.07	(0.39, 2.33)	490	0.80
#Marchant D	15	0	0.00	1.99	0.00	(0.00,14.53)	1	0.00
#Meraj P	396	3	0.76	1.36	0.66	(0.13, 1.93)	322	0.63
##Polena S	2	0	0.00	0.23	0.00	(0.00,100.0)	2	0.00
##Poumpouridis K	7	0	0.00	0.62	0.00	(0.00,100.0)	7	0.00
##Rehman S	22	0	0.00	0.84	0.00	(0.00,23.51)	20	0.00
#Rutkin B	18	0	0.00	2.58	0.00	(0.00, 9.35)	5	0.00
##Selim S	57	0	0.00	0.83	0.00	(0.00, 9.13)	44	0.00
#Singh A	470	5	1.06	1.10	1.14	(0.37, 2.67)	382	0.49
##Singh V	1	0	0.00	0.80	0.00	(0.00,100.0)	.	.
#Srinivas G	123	3	2.44	0.75	3.86	(0.78,11.28)	120	2.57
##Strizik B	2	0	0.00	0.27	0.00	(0.00,100.0)	2	0.00
##Weinberg M	20	1	5.00	2.13	2.78	(0.04,15.48)	5	8.53
#Yadav S	17	0	0.00	0.70	0.00	(0.00,36.67)	15	0.00
<b>TOTAL</b>	<b>3361</b>	<b>31</b>	<b>0.92</b>	<b>1.02</b>	<b>1.07</b>	<b>(0.73, 1.52)</b>	<b>2878</b>	<b>0.83</b>

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>Maimonides Medical Center</b>								
Ayzenberg S	706	9	1.27	2.44	0.62 **	(0.28, 1.17)	554	0.51
Borgen E	690	3	0.43	2.05	0.25 **	(0.05, 0.74)	504	0.23
Frankel R	311	1	0.32	1.66	0.23	(0.00, 1.28)	274	0.22
Friedman M	272	5	1.84	2.33	0.94	(0.30, 2.18)	163	0.40
##Fuschetto D	2	0	0.00	0.56	0.00	(0.00,100.0)	2	0.00
##Fuschetto O	4	0	0.00	1.52	0.00	(0.00,71.48)	4	0.00
##Gala B	5	0	0.00	2.64	0.00	(0.00,32.87)	5	0.00
##Garyali S	14	0	0.00	0.14	0.00	(0.00,100.0)	14	0.00
#Kantrowitz N	8	0	0.00	0.55	0.00	(0.00,97.91)	7	0.00
##Lee P C	8	0	0.00	0.20	0.00	(0.00,100.0)	8	0.00
Malik B	999	16	1.60	1.88	1.01	(0.58, 1.64)	838	0.75
#Shaknovich A	35	0	0.00	0.54	0.00	(0.00,22.90)	35	0.00
Shani J	243	1	0.41	1.10	0.44	(0.01, 2.47)	231	0.34
All Others	146	2	1.37	1.79	0.90	(0.10, 3.26)	112	1.06
<b>TOTAL</b>	<b>3443</b>	<b>37</b>	<b>1.07</b>	<b>1.96</b>	<b>0.65 **</b>	<b>(0.46, 0.90)</b>	<b>2751</b>	<b>0.50 **</b>
<b>Mercy Hospital of Buffalo</b>								
#Calandra S	476	6	1.26	1.33	1.12	(0.41, 2.44)	338	1.09
Chaudhry E	15	1	6.67	0.33	23.68	(0.31,100.0)	15	17.33
#Conley J	192	1	0.52	0.68	0.91	(0.01, 5.04)	186	0.60
#Emerson R	199	5	2.51	1.52	1.96	(0.63, 4.57)	106	1.92
#Gelormini J	701	14	2.00	1.45	1.63	(0.89, 2.74)	531	0.88
Haq N	444	8	1.80	1.29	1.65	(0.71, 3.26)	309	0.72
#Masud ARZ	435	8	1.84	1.09	2.00	(0.86, 3.94)	374	1.03
Meltser H	771	15	1.95	0.99	2.32 *	(1.30, 3.83)	578	1.31
##Morris W	22	0	0.00	0.52	0.00	(0.00,37.90)	22	0.00
##Phadke K	23	0	0.00	0.21	0.00	(0.00,91.74)	23	0.00
#Sullivan P	50	2	4.00	0.71	6.70	(0.75,24.18)	44	5.68
All Others	29	1	3.45	0.70	5.84	(0.08,32.49)	28	3.78
<b>TOTAL</b>	<b>3357</b>	<b>61</b>	<b>1.82</b>	<b>1.18</b>	<b>1.82 *</b>	<b>(1.39, 2.34)</b>	<b>2554</b>	<b>1.15</b>
<b>Montefiore Medical Center - Moses Div.</b>								
##Amsalem Y	256	2	0.78	1.54	0.60	(0.07, 2.17)	180	0.00
##Bliagos D	210	1	0.48	1.45	0.39	(0.01, 2.17)	186	0.00
##Bortnick A	29	1	3.45	1.57	2.61	(0.03,14.51)	28	1.74
##Celaj S	288	1	0.35	1.23	0.34	(0.00, 1.86)	229	0.35
##Charney R	3	0	0.00	0.38	0.00	(0.00,100.0)	3	0.00
##Greenberg M	389	3	0.77	0.71	1.28	(0.26, 3.75)	359	0.77
##Johnson M	432	5	1.16	1.08	1.27	(0.41, 2.97)	387	1.13
##Krim N	22	0	0.00	0.86	0.00	(0.00,22.93)	20	0.00
##Menegus M	4	0	0.00	0.42	0.00	(0.00,100.0)	3	0.00
##Monrad E	1	0	0.00	0.08	0.00	(0.00,100.0)	1	0.00
##Pyo R	540	2	0.37	1.09	0.40	(0.05, 1.45)	472	0.20
Sehhat K	136	0	0.00	0.49	0.00	(0.00, 6.54)	133	0.00
##Shaqra H	55	1	1.82	1.35	1.60	(0.02, 8.90)	34	0.00
##Shih A T	94	2	2.13	1.54	1.64	(0.18, 5.92)	60	0.00
#Slovut D	2	0	0.00	1.89	0.00	(0.00,100.0)	.	.
##Wiley J	108	5	4.63	1.29	4.26 *	(1.37, 9.95)	91	3.95 *
All Others	158	3	1.90	1.12	2.01	(0.40, 5.87)	133	0.86
<b>TOTAL</b>	<b>2727</b>	<b>26</b>	<b>0.95</b>	<b>1.12</b>	<b>1.01</b>	<b>(0.66, 1.48)</b>	<b>2319</b>	<b>0.57</b>
<b>Montefiore Medical Center - Weiler Hosp.</b>								
##Bortnick A	289	7	2.42	1.78	1.62	(0.65, 3.33)	210	1.05
##Charney R	66	0	0.00	1.06	0.00	(0.00, 6.22)	66	0.00
##Greenberg M	1	0	0.00	0.14	0.00	(0.00,100.0)	1	0.00
##Menegus M	489	1	0.20	1.01	0.24	(0.00, 1.33)	381	0.30
##Messinger D	21	0	0.00	2.29	0.00	(0.00, 9.02)	21	0.00
##Monrad E	307	2	0.65	1.22	0.63	(0.07, 2.28)	235	0.00
##Pyo R	2	0	0.00	12.35	0.00	(0.00,17.59)	2	0.00
##Shaqra H	81	0	0.00	0.86	0.00	(0.00, 6.20)	69	0.00
#Slovut D	226	3	1.33	1.52	1.03	(0.21, 3.02)	136	0.78
Sokol S	233	2	0.86	1.09	0.93	(0.10, 3.37)	178	0.63
##Wiley J	1	0	0.00	0.51	0.00	(0.00,100.0)	1	0.00
All Others	25	0	0.00	1.57	0.00	(0.00,11.05)	23	0.00
<b>TOTAL</b>	<b>1741</b>	<b>15</b>	<b>0.86</b>	<b>1.28</b>	<b>0.80</b>	<b>(0.45, 1.31)</b>	<b>1323</b>	<b>0.40</b>

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>Mount Sinai Beth Israel</b>								
#Aslam A F	97	4	4.12	1.30	3.76	(1.01, 9.64)	78	3.06
#Aslam A K	161	0	0.00	0.24	0.00	(0.00,11.43)	160	0.00
Fox J	1186	11	0.93	1.10	1.00	(0.50, 1.79)	1106	0.49
##Gowda R	724	6	0.83	1.39	0.70	(0.26, 1.53)	637	0.48
Huang Y	546	3	0.55	0.45	1.44	(0.29, 4.21)	542	1.10
Kanei Y	473	9	1.90	1.92	1.17	(0.53, 2.23)	337	0.47
#Kwan T	500	1	0.20	0.45	0.52	(0.01, 2.92)	497	0.39
#Liou M	357	0	0.00	0.44	0.00	(0.00, 2.75)	353	0.00
#Puma J	231	1	0.43	0.45	1.13	(0.01, 6.29)	231	0.75
#Punukollu G	68	1	1.47	0.48	3.64	(0.05,20.25)	66	2.06
#Rosero H	496	3	0.60	0.92	0.77	(0.16, 2.26)	433	0.56
#Vales L	6	0	0.00	0.36	0.00	(0.00,100.0)	6	0.00
#Wilentz J	15	0	0.00	0.32	0.00	(0.00,90.07)	15	0.00
All Others	133	0	0.00	0.56	0.00	(0.00, 5.85)	132	0.00
<b>TOTAL</b>	<b>4993</b>	<b>39</b>	<b>0.78</b>	<b>0.94</b>	<b>0.98</b>	<b>(0.70, 1.35)</b>	<b>4593</b>	<b>0.54</b>
<b>Mount Sinai Hospital</b>								
Baber U	167	2	1.20	1.98	0.72	(0.08, 2.59)	135	0.43
Bander J	339	4	1.18	1.23	1.14	(0.31, 2.91)	309	0.50
#Barman N	170	2	1.18	1.20	1.16	(0.13, 4.19)	148	0.98
##Bliagos D	115	1	0.87	0.84	1.23	(0.02, 6.86)	114	0.84
Dangas G	433	8	1.85	1.54	1.42	(0.61, 2.81)	381	1.32
##Dominguez-Echeva	157	1	0.64	0.88	0.86	(0.01, 4.78)	157	0.60
##Duvvuri S	12	0	0.00	0.66	0.00	(0.00,55.13)	12	0.00
##Fernaine G	21	1	4.76	0.93	6.04	(0.08,33.60)	21	4.62
##Gowda R	4	0	0.00	0.23	0.00	(0.00,100.0)	4	0.00
#Gujja K	102	2	1.96	0.59	3.94	(0.44,14.23)	102	2.27
##Hameedi A	224	0	0.00	0.23	0.00	(0.00, 8.44)	224	0.00
Hasan C	155	1	0.65	0.24	3.17	(0.04,17.62)	155	2.25
#Jayasundera T	8	0	0.00	0.37	0.00	(0.00,100.0)	8	0.00
Kapur V	87	0	0.00	0.92	0.00	(0.00, 5.45)	75	0.00
##Kesanakurthy S	573	5	0.87	0.69	1.50	(0.48, 3.49)	550	1.08
Kini A	2555	10	0.39	0.73	0.64 **	(0.30, 1.17)	2477	0.34 **
Kovacic J	90	0	0.00	3.67	0.00	(0.00, 1.31)	62	0.00
Krishnan P	225	3	1.33	0.57	2.79	(0.56, 8.14)	220	1.33
Lee J	14	0	0.00	0.29	0.00	(0.00,100.0)	14	0.00
##Lee P C	4	0	0.00	0.38	0.00	(0.00,100.0)	4	0.00
#Limaye A	215	5	2.33	2.11	1.30	(0.42, 3.04)	188	0.52
Mittal N	19	0	0.00	0.35	0.00	(0.00,64.92)	19	0.00
#Moreno P	433	1	0.23	0.75	0.36	(0.00, 2.03)	423	0.00
Palkhiwala S	501	0	0.00	0.38	0.00	(0.00, 2.30)	499	0.00
#Patel V	19	0	0.00	0.17	0.00	(0.00,100.0)	19	0.00
##Pyo R	54	0	0.00	1.01	0.00	(0.00, 7.98)	48	0.00
##Shah A	30	1	3.33	1.19	3.32	(0.04,18.46)	29	2.47
#Shah A R	1	0	0.00	2.49	0.00	(0.00,100.0)	1	0.00
Sharma S	3249	19	0.58	0.96	0.72 **	(0.43, 1.13)	3228	0.50
#Suleman J	425	1	0.24	0.40	0.69	(0.01, 3.84)	424	0.44
Sweeny J	317	5	1.58	0.97	1.93	(0.62, 4.50)	299	1.54
##Wiley J	26	0	0.00	1.64	0.00	(0.00,10.20)	18	0.00
##Zgheib M	16	0	0.00	0.24	0.00	(0.00,100.0)	16	0.00
All Others	128	1	0.78	0.52	1.79	(0.02, 9.96)	124	1.19
<b>TOTAL</b>	<b>10888</b>	<b>73</b>	<b>0.67</b>	<b>0.88</b>	<b>0.90 **</b>	<b>(0.70, 1.13)</b>	<b>10507</b>	<b>0.58 **</b>
<b>Mount Sinai St. Lukes</b>								
##Amsalem Y	56	0	0.00	1.51	0.00	(0.00, 5.14)	48	0.00
#Coven D	22	1	4.55	2.33	2.31	(0.03,12.86)	15	0.00
##Gotsis W	58	2	3.45	1.01	4.04	(0.45,14.57)	57	2.37
##Gowda R	50	1	2.00	2.55	0.93	(0.01, 5.17)	36	0.00
Husain S S	31	0	0.00	0.36	0.00	(0.00,39.01)	31	0.00
##Krim N	20	1	5.00	1.03	5.73	(0.07,31.87)	20	3.58
Leber R	276	2	0.72	1.22	0.70	(0.08, 2.54)	225	0.43
#Moreno P	292	0	0.00	0.82	0.00	(0.00, 1.80)	284	0.00
Palazzo A	101	2	1.98	1.31	1.78	(0.20, 6.44)	83	0.00
##Silverman G	8	0	0.00	2.72	0.00	(0.00,19.93)	7	0.00



Table 5, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>Mount Sinai St. Lukes, <i>continued</i></b>								
Simon C	477	12	2.52	2.63	1.13	(0.59, 1.98)	413	0.86
Tamis-Holland J	150	1	0.67	1.56	0.51	(0.01, 2.82)	96	0.00
All Others	80	2	2.50	1.39	2.13	(0.24, 7.69)	64	0.00
<b>TOTAL</b>	<b>1621</b>	<b>24</b>	<b>1.48</b>	<b>1.66</b>	<b>1.06</b>	<b>(0.68, 1.58)</b>	<b>1379</b>	<b>0.63</b>
<b>NYP - Lawrence Hospital</b>								
#Ali Z	7	0	0.00	0.93	0.00	(0.00,66.56)	4	0.00
##Apfelbaum M	35	0	0.00	0.83	0.00	(0.00,14.87)	21	0.00
#Green P	7	0	0.00	4.05	0.00	(0.00,15.34)	3	0.00
##Hjemdahl-Monsen	133	1	0.75	0.62	1.44	(0.02, 8.03)	118	0.00
##Irobunda C	3	0	0.00	8.27	0.00	(0.00,17.52)	.	.
##Kalapatapu K	141	1	0.71	0.96	0.88	(0.01, 4.87)	134	0.62
#Nazif T	3	0	0.00	1.09	0.00	(0.00,100.0)	2	0.00
##Shih A T	11	0	0.00	0.49	0.00	(0.00,80.90)	8	0.00
#Vahl T	15	0	0.00	3.54	0.00	(0.00, 8.18)	2	0.00
<b>TOTAL</b>	<b>355</b>	<b>2</b>	<b>0.56</b>	<b>1.04</b>	<b>0.64</b>	<b>(0.07, 2.32)</b>	<b>292</b>	<b>0.37</b>
<b>NYP Hospital - Brooklyn Methodist Hosp.</b>								
#Aslam A F	148	1	0.68	0.35	2.29	(0.03,12.75)	142	0.00
#Aslam A K	153	0	0.00	0.26	0.00	(0.00,10.89)	150	0.00
#Badero O	130	0	0.00	0.28	0.00	(0.00,11.92)	130	0.00
Brener S	417	24	5.76	2.77	2.46 *	(1.57, 3.66)	256	1.86 *
Cherikuri S	78	2	2.56	1.51	2.02	(0.23, 7.28)	65	0.83
Chokshi A	62	0	0.00	0.54	0.00	(0.00,13.05)	60	0.00
##Dominguez-Echeva	4	0	0.00	0.96	0.00	(0.00,100.0)	4	0.00
##Garyali S	9	0	0.00	0.37	0.00	(0.00,100.0)	8	0.00
Haq S	170	6	3.53	2.16	1.94	(0.71, 4.22)	149	1.40
##Hoyek W	59	0	0.00	0.22	0.00	(0.00,32.97)	59	0.00
Jasty B	119	2	1.68	0.62	3.22	(0.36,11.63)	116	2.29
#Kantrowitz N	16	0	0.00	0.33	0.00	(0.00,82.88)	16	0.00
##Kesanakurthy S	12	0	0.00	0.19	0.00	(0.00,100.0)	12	0.00
#Kwan T	20	0	0.00	0.37	0.00	(0.00,58.53)	20	0.00
#Patel V	141	2	1.42	0.55	3.08	(0.35,11.12)	137	2.20
##Rehman S	126	2	1.59	0.96	1.97	(0.22, 7.10)	117	1.45
#Rosero H	3	0	0.00	0.30	0.00	(0.00,100.0)	3	0.00
Rouvelas P	74	0	0.00	0.50	0.00	(0.00,11.79)	73	0.00
Sacchi T	1192	15	1.26	1.03	1.45	(0.81, 2.39)	1049	0.92
##Shah A	288	4	1.39	0.64	2.58	(0.69, 6.61)	282	1.37
#Shaknovich A	128	1	0.78	1.00	0.92	(0.01, 5.15)	125	0.85
#Shohat E	60	0	0.00	0.30	0.00	(0.00,24.24)	59	0.00
#Singh T	179	0	0.00	0.27	0.00	(0.00, 9.11)	179	0.00
All Others	48	0	0.00	0.26	0.00	(0.00,34.97)	48	0.00
<b>TOTAL</b>	<b>3636</b>	<b>59</b>	<b>1.62</b>	<b>1.03</b>	<b>1.86 *</b>	<b>(1.41, 2.40)</b>	<b>3259</b>	<b>1.18 *</b>
<b>NYP Hospital - Columbia Presbyterian</b>								
Aboufares A	162	2	1.23	1.35	1.09	(0.12, 3.92)	137	0.73
#Ali Z	466	8	1.72	1.26	1.61	(0.69, 3.17)	416	0.75
##Apfelbaum M	33	0	0.00	0.41	0.00	(0.00,32.38)	32	0.00
Brogno D	427	1	0.23	0.71	0.39	(0.01, 2.16)	425	0.28
Collins M	461	8	1.74	1.98	1.04	(0.45, 2.04)	416	1.03
##Dominguez-Echeva	12	0	0.00	0.55	0.00	(0.00,65.37)	12	0.00
George I	4	1	25.00	4.82	6.14	(0.08,34.16)	4	4.27
#Green P	205	1	0.49	1.24	0.46	(0.01, 2.59)	179	0.45
##Hjemdahl-Monsen	178	1	0.56	0.97	0.69	(0.01, 3.83)	174	0.51
##Irobunda C	151	0	0.00	1.29	0.00	(0.00, 2.23)	135	0.00
##Kalapatapu K	189	1	0.53	0.92	0.68	(0.01, 3.81)	179	0.00
Karpaliotis D	308	6	1.95	1.29	1.79	(0.65, 3.90)	278	2.03
Kirtane A	468	4	0.85	1.66	0.61	(0.16, 1.56)	419	0.18
Kodali S	255	7	2.75	1.75	1.85	(0.74, 3.82)	244	1.18
Leon M	78	1	1.28	0.57	2.65	(0.03,14.73)	78	1.79
#Moses J	975	5	0.51	0.70	0.86	(0.28, 2.01)	972	0.65
#Motivala A	29	0	0.00	0.67	0.00	(0.00,22.25)	29	0.00
#Nazif T	194	0	0.00	1.66	0.00	(0.00, 1.35)	173	0.00
Parikh M	722	4	0.55	0.77	0.85	(0.23, 2.19)	690	0.40



Table 5, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>NYP Hospital - Columbia Presbyterian, <i>continued</i></b>								
#Perry-Bottinger L	25	0	0.00	0.67	0.00	(0.00,25.99)	25	0.00
Pucillo A	153	0	0.00	0.78	0.00	(0.00, 3.63)	146	0.00
#Puma J	134	0	0.00	0.49	0.00	(0.00, 6.57)	134	0.00
Rabbani L	590	6	1.02	0.89	1.35	(0.49, 2.93)	551	0.92
Rentrop K	52	0	0.00	0.37	0.00	(0.00,22.84)	52	0.00
##Sastry A	2	0	0.00	0.63	0.00	(0.00,100.0)	2	0.00
Shao J	23	0	0.00	0.44	0.00	(0.00,43.13)	23	0.00
##Shih A T	4	1	25.00	1.43	20.73	(0.27,100.0)	4	11.23
Smith S	40	0	0.00	0.47	0.00	(0.00,23.16)	40	0.00
#Stathopoulos I	295	1	0.34	0.65	0.62	(0.01, 3.44)	293	0.39
Stone G	7	0	0.00	1.57	0.00	(0.00,39.53)	7	0.00
#Vahl T	130	5	3.85	2.08	2.19	(0.71, 5.12)	108	1.58
Weinberger J	38	0	0.00	0.39	0.00	(0.00,29.20)	37	0.00
#Williams M	27	1	3.70	1.14	3.84	(0.05,21.39)	26	2.63
All Others	141	2	1.42	1.80	0.93	(0.10, 3.37)	117	0.78
<b>TOTAL</b>	<b>6978</b>	<b>66</b>	<b>0.95</b>	<b>1.10</b>	<b>1.02</b>	<b>(0.79, 1.30)</b>	<b>6557</b>	<b>0.70</b>
<b>NYP Hospital - New York Weill Cornell</b>								
Bergman G	480	3	0.63	1.29	0.57	(0.12, 1.67)	426	0.00 **
##Charney R	99	0	0.00	0.88	0.00	(0.00, 4.99)	98	0.00
Feldman D	482	1	0.21	1.45	0.17 **	(0.00, 0.94)	430	0.00 **
Gade C	23	0	0.00	0.29	0.00	(0.00,64.05)	23	0.00
##Kesanakurthy S	96	1	1.04	0.48	2.55	(0.03,14.18)	95	1.61
Kim L	370	3	0.81	1.37	0.70	(0.14, 2.05)	312	0.25
##Messinger D	49	0	0.00	1.26	0.00	(0.00, 7.03)	48	0.00
Minutello R	393	4	1.02	1.61	0.75	(0.20, 1.92)	331	0.72
#Sharma A	160	1	0.63	1.16	0.64	(0.01, 3.57)	140	0.00
Singh H	164	5	3.05	2.21	1.63	(0.53, 3.81)	118	1.89
Slotwiner A	148	1	0.68	1.58	0.51	(0.01, 2.81)	129	0.56
##Srivastava S	34	0	0.00	0.89	0.00	(0.00,14.34)	34	0.00
Swaminathan R	134	3	2.24	2.43	1.09	(0.22, 3.18)	104	1.21
#Wilentz J	60	0	0.00	0.52	0.00	(0.00,13.97)	59	0.00
Wong S	542	1	0.18	0.75	0.29	(0.00, 1.61)	531	0.27
Yang Y	94	0	0.00	0.30	0.00	(0.00,15.38)	94	0.00
<b>TOTAL</b>	<b>3328</b>	<b>23</b>	<b>0.69</b>	<b>1.28</b>	<b>0.64 **</b>	<b>(0.41, 0.96)</b>	<b>2972</b>	<b>0.38 **</b>
<b>NYU Hospitals Center</b>								
#Attubato M	1387	13	0.94	0.75	1.48	(0.79, 2.53)	1312	1.09
#Babaev A	758	3	0.40	0.53	0.89	(0.18, 2.60)	748	0.66
#Bangalore S	35	0	0.00	0.82	0.00	(0.00,15.09)	26	0.00
#Coppola J	150	1	0.67	0.68	1.17	(0.02, 6.49)	145	1.03
#David M	103	0	0.00	0.29	0.00	(0.00,14.61)	103	0.00
##Farid A	156	0	0.00	0.28	0.00	(0.00, 9.99)	155	0.00
#Feit F	496	4	0.81	0.56	1.71	(0.46, 4.38)	484	1.34
##Fernaine G	16	1	6.25	0.43	17.25	(0.23,95.99)	16	10.91
#Iqbal S	19	1	5.26	1.49	4.18	(0.05,23.25)	11	0.00
#Jayasundera T	254	0	0.00	0.28	0.00	(0.00, 6.18)	253	0.00
Kokolis S	30	0	0.00	0.44	0.00	(0.00,32.88)	30	0.00
#Liou M	7	0	0.00	0.20	0.00	(0.00,100.0)	7	0.00
##Papadakos S	307	0	0.00	0.66	0.00	(0.00, 2.15)	305	0.00
#Razzouk L	246	2	0.81	1.10	0.87	(0.10, 3.16)	196	0.94
#Serrano-Gomez C	157	1	0.64	0.98	0.77	(0.01, 4.29)	138	0.00
##Shah A	32	0	0.00	0.28	0.00	(0.00,48.24)	32	0.00
#Shah B	25	0	0.00	1.65	0.00	(0.00,10.53)	15	0.00
#Singh T	57	0	0.00	0.20	0.00	(0.00,38.11)	57	0.00
#Slater J	433	6	1.39	0.81	2.03	(0.74, 4.41)	379	1.51
##Srivastava S	48	0	0.00	0.21	0.00	(0.00,42.93)	48	0.00
#Staniloae C	131	3	2.29	0.58	4.69	(0.94,13.70)	128	2.00
#Vales L	51	0	0.00	0.55	0.00	(0.00,15.48)	49	0.00
#Williams M	37	2	5.41	1.44	4.46	(0.50,16.09)	37	3.05
#Yatskar L	3	0	0.00	0.27	0.00	(0.00,100.0)	3	0.00
All Others	47	1	2.13	2.06	1.22	(0.02, 6.81)	37	0.00
<b>TOTAL</b>	<b>4985</b>	<b>38</b>	<b>0.76</b>	<b>0.67</b>	<b>1.35</b>	<b>(0.95, 1.85)</b>	<b>4714</b>	<b>0.96</b>

Table 5, continued

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
<b>NYU Langone Hospital-Brooklyn</b>								
##Dominguez-Echeva	85	0	0.00	1.76	0.00	(0.00, 2.91)	81	0.00
##Fernaine G	289	2	0.69	1.10	0.74	(0.08, 2.68)	240	0.61
##Fuschetto D	18	0	0.00	1.81	0.00	(0.00,13.36)	9	0.00
##Fuschetto O	18	0	0.00	1.09	0.00	(0.00,22.10)	11	0.00
##Hoyek W	77	1	1.30	2.50	0.61	(0.01, 3.42)	49	0.00
#Kandov R	42	1	2.38	1.82	1.55	(0.02, 8.64)	20	0.00
##Lee P C	57	0	0.00	2.56	0.00	(0.00, 2.98)	36	0.00
##Royzman R	52	2	3.85	2.63	1.73	(0.19, 6.26)	26	2.64
##Srivastava S	5	0	0.00	0.45	0.00	(0.00,100.0)	5	0.00
All Others	29	1	3.45	2.95	1.38	(0.02, 7.69)	13	0.00
<b>TOTAL</b>	<b>672</b>	<b>7</b>	<b>1.04</b>	<b>1.73</b>	<b>0.71</b>	<b>(0.29, 1.47)</b>	<b>490</b>	<b>0.43</b>
<b>NYU Winthrop Hospital</b>								
##Caselnova R	66	1	1.52	0.82	2.20	(0.03,12.24)	64	1.41
#Chengot T	44	2	4.55	1.41	3.82	(0.43,13.81)	42	2.19
Donohue D	257	2	0.78	1.26	0.73	(0.08, 2.64)	202	0.00
##Franco J	1	0	0.00	0.74	0.00	(0.00,100.0)	1	0.00
##Galler B	8	0	0.00	5.50	0.00	(0.00, 9.87)	5	0.00
#Gambino A	769	6	0.78	1.08	0.86	(0.31, 1.86)	677	0.85
Green S	268	3	1.12	1.85	0.72	(0.14, 2.10)	173	0.44
##Hormozi S	2	0	0.00	0.23	0.00	(0.00,100.0)	2	0.00
#Khan W	48	0	0.00	1.70	0.00	(0.00, 5.33)	48	0.00
Marzo K	303	2	0.66	1.11	0.70	(0.08, 2.53)	233	0.70
Mousa T	62	0	0.00	0.58	0.00	(0.00,12.05)	62	0.00
#Naidu S	179	1	0.56	1.12	0.59	(0.01, 3.29)	149	0.00
#Schwartz R	960	6	0.63	1.44	0.52 **	(0.19, 1.12)	854	0.38
#Witkes D	1	0	0.00	0.21	0.00	(0.00,100.0)	1	0.00
#Zisfein J	83	0	0.00	1.35	0.00	(0.00, 3.87)	81	0.00
All Others	21	0	0.00	0.90	0.00	(0.00,23.03)	15	0.00
<b>TOTAL</b>	<b>3072</b>	<b>23</b>	<b>0.75</b>	<b>1.29</b>	<b>0.69 **</b>	<b>(0.43, 1.03)</b>	<b>2609</b>	<b>0.49</b>
<b>New York Presbyterian - Queens</b>								
Chiu Sungkin	52	0	0.00	0.21	0.00	(0.00,39.47)	52	0.00
Chiu Sungwai	58	1	1.72	0.24	8.49	(0.11,47.26)	58	5.84
#David M	20	1	5.00	0.27	21.91	(0.29,100.0)	20	18.10
##Grunwald A	72	0	0.00	0.96	0.00	(0.00, 6.30)	46	0.00
#Gupta R	51	0	0.00	1.11	0.00	(0.00, 7.67)	50	0.00
Gustafson G	304	1	0.33	0.88	0.44	(0.01, 2.48)	225	0.00
##Hameedi A	350	0	0.00	0.25	0.00	(0.00, 5.05)	349	0.00
##Koss J	46	2	4.35	1.39	3.71	(0.42,13.40)	13	0.00
Lee H	80	0	0.00	0.21	0.00	(0.00,26.07)	80	0.00
Moustakakis E	410	4	0.98	1.14	1.01	(0.27, 2.60)	277	1.33
##Papadakos S	146	2	1.37	2.31	0.70	(0.08, 2.54)	72	0.60
Park C	388	6	1.55	0.79	2.31	(0.85, 5.04)	300	0.71
#Perry-Bottinger L	2	0	0.00	1.00	0.00	(0.00,100.0)	2	0.00
<b>TOTAL</b>	<b>1979</b>	<b>17</b>	<b>0.86</b>	<b>0.86</b>	<b>1.18</b>	<b>(0.69, 1.89)</b>	<b>1544</b>	<b>0.73</b>
<b>North Shore University Hospital</b>								
##Bagga R	2	0	0.00	1.31	0.00	(0.00,100.0)	2	0.00
Blumenthal S	91	0	0.00	0.32	0.00	(0.00,14.74)	90	0.00
#Boutis L	1138	16	1.41	1.20	1.39	(0.79, 2.26)	960	0.98
#Dhama B	61	0	0.00	0.66	0.00	(0.00,10.72)	59	0.00
##Friedman G H	17	1	5.88	0.41	17.07	(0.22,94.99)	17	12.47
##Fuschetto D	60	1	1.67	1.16	1.70	(0.02, 9.44)	55	1.39
##Fuschetto O	3	0	0.00	0.71	0.00	(0.00,100.0)	3	0.00
##Galler B	279	5	1.79	1.14	1.86	(0.60, 4.33)	276	1.49
##Grunwald A	72	2	2.78	0.72	4.58	(0.51,16.53)	68	2.43
##Hameedi A	5	0	0.00	0.24	0.00	(0.00,100.0)	5	0.00
##Hormozi S	5	0	0.00	2.77	0.00	(0.00,31.41)	5	0.00
#Husain S I	16	0	0.00	0.74	0.00	(0.00,36.58)	15	0.00
#Jauhar R	772	5	0.65	1.03	0.74	(0.24, 1.73)	650	0.72
##Joseph S	8	0	0.00	0.26	0.00	(0.00,100.0)	8	0.00
#Kaplan B	1674	7	0.42	0.94	0.53 **	(0.21, 1.09)	1518	0.30
#Katz S	193	2	1.04	1.21	1.01	(0.11, 3.66)	162	1.08

Table 5, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>North Shore University Hospital, <i>continued</i></b>								
##Kim M	188	0	0.00	1.03	0.00	(0.00, 2.23)	143	0.00
##Koss J	164	1	0.61	1.13	0.64	(0.01, 3.56)	151	0.62
Kruger A	205	2	0.98	1.52	0.76	(0.09, 2.74)	195	0.30
#Lee A	62	0	0.00	4.07	0.00	(0.00, 1.72)	30	0.00
#Marchant D	113	1	0.88	1.07	0.98	(0.01, 5.44)	80	1.16
#Meraj P	662	11	1.66	1.63	1.21	(0.60, 2.16)	532	0.94
##Ong L Y	58	0	0.00	0.91	0.00	(0.00, 8.20)	57	0.00
##Papadakos S	4	0	0.00	2.52	0.00	(0.00,43.13)	4	0.00
##Patcha R	30	1	3.33	1.21	3.26	(0.04,18.14)	30	2.27
##Polena S	55	1	1.82	1.13	1.91	(0.03,10.65)	55	1.28
##Poumpouridis K	10	0	0.00	0.28	0.00	(0.00,100.0)	10	0.00
#Rutkin B	226	5	2.21	1.53	1.72	(0.55, 4.01)	176	0.86
##Selim S	61	1	1.64	1.89	1.03	(0.01, 5.71)	36	1.97
#Singh A	93	2	2.15	2.45	1.04	(0.12, 3.75)	58	0.00
##Singh V	1	0	0.00	3.03	0.00	(0.00,100.0)	.	.
#Srinivas G	30	0	0.00	0.53	0.00	(0.00,27.45)	29	0.00
##Strizik B	135	1	0.74	0.84	1.05	(0.01, 5.82)	130	0.76
Vidyarthi V	15	1	6.67	0.26	30.05	(0.39,100.0)	15	24.58
##Weinberg M	196	2	1.02	1.07	1.13	(0.13, 4.06)	132	0.74
#Witkes D	41	0	0.00	0.78	0.00	(0.00,13.66)	41	0.00
All Others	35	1	2.86	1.41	2.39	(0.03,13.32)	32	1.89
<b>TOTAL</b>	<b>6780</b>	<b>69</b>	<b>1.02</b>	<b>1.17</b>	<b>1.03</b>	<b>(0.80, 1.30)</b>	<b>5829</b>	<b>0.77</b>
<b>Olean General Hospital</b>								
Benz M	16	0	0.00	1.10	0.00	(0.00,24.59)	8	0.00
##Chockalingam S	13	0	0.00	0.76	0.00	(0.00,44.23)	7	0.00
#Farhi E	3	0	0.00	1.32	0.00	(0.00,100.0)	1	0.00
#Iyer V	3	0	0.00	0.31	0.00	(0.00,100.0)	3	0.00
Mallavarapu C	404	6	1.49	1.19	1.48	(0.54, 3.23)	201	1.12
##Malpeso J	11	0	0.00	0.55	0.00	(0.00,71.68)	6	0.00
##Morris W	6	0	0.00	3.17	0.00	(0.00,22.88)	4	0.00
##Phadke K	5	0	0.00	0.21	0.00	(0.00,100.0)	5	0.00
All Others	17	1	5.88	1.49	4.67	(0.06,25.97)	8	0.00
<b>TOTAL</b>	<b>478</b>	<b>7</b>	<b>1.46</b>	<b>1.18</b>	<b>1.47</b>	<b>(0.59, 3.03)</b>	<b>243</b>	<b>0.95</b>
<b>Orange Regional Medical Center</b>								
#Agarwal A	7	0	0.00	0.21	0.00	(0.00,100.0)	7	0.00
##Cuomo L	193	1	0.52	1.13	0.54	(0.01, 3.01)	113	0.00
##Gotsis W	529	7	1.32	0.99	1.59	(0.64, 3.27)	402	1.68
##Kalapatapu K	248	1	0.40	1.11	0.43	(0.01, 2.40)	240	0.28
#Motivala A	258	1	0.39	1.38	0.33	(0.00, 1.85)	159	0.63
##Silverman G	269	2	0.74	1.15	0.77	(0.09, 2.78)	159	0.61
All Others	13	0	0.00	0.51	0.00	(0.00,66.15)	12	0.00
<b>TOTAL</b>	<b>1517</b>	<b>12</b>	<b>0.79</b>	<b>1.11</b>	<b>0.84</b>	<b>(0.43, 1.47)</b>	<b>1092</b>	<b>0.77</b>
<b>Richmond University Medical Center</b>								
##Duvvuri S	104	0	0.00	0.85	0.00	(0.00, 4.91)	83	0.00
##Farid A	2	0	0.00	0.17	0.00	(0.00,100.0)	2	0.00
##Fuschetto O	2	0	0.00	2.89	0.00	(0.00,75.05)	.	.
##Gala B	86	2	2.33	1.71	1.61	(0.18, 5.82)	56	3.87
##Snyder S	3	0	0.00	0.64	0.00	(0.00,100.0)	.	.
#Swamy S	38	0	0.00	0.62	0.00	(0.00,18.31)	31	0.00
#Tamburrino F	4	0	0.00	0.45	0.00	(0.00,100.0)	4	0.00
##Zgheib M	16	0	0.00	0.41	0.00	(0.00,66.12)	13	0.00
All Others	37	0	0.00	2.10	0.00	(0.00, 5.59)	20	0.00
<b>TOTAL</b>	<b>292</b>	<b>2</b>	<b>0.68</b>	<b>1.21</b>	<b>0.67</b>	<b>(0.08, 2.42)</b>	<b>209</b>	<b>0.74</b>
<b>Rochester General Hospital</b>								
#Abtahian F	210	4	1.90	1.44	1.56	(0.42, 4.00)	143	1.06
#Ahmed A	260	3	1.15	1.45	0.94	(0.19, 2.75)	182	0.86
##Chockalingam S	139	2	1.44	1.01	1.69	(0.19, 6.11)	128	0.00
#Doling M	8	0	0.00	0.43	0.00	(0.00,100.0)	8	0.00
#Gacioch G	386	7	1.81	1.51	1.42	(0.57, 2.92)	241	0.00
#Krishnamoorthy V	381	9	2.36	1.39	2.02	(0.92, 3.83)	250	1.41

Table 5, *continued*

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
<b>Rochester General Hospital, <i>continued</i></b>								
##Ong L S	1630	14	0.86	0.95	1.07	(0.58, 1.79)	1424	0.82
#Patel T	213	7	3.29	1.21	3.22 *	(1.29, 6.62)	182	2.52
Scortichini D	124	1	0.81	0.46	2.08	(0.03,11.55)	119	1.58
#Singer G	360	1	0.28	0.62	0.53	(0.01, 2.93)	355	0.38
##Stuver T	632	7	1.11	1.14	1.15	(0.46, 2.38)	482	1.00
All Others	325	4	1.23	1.18	1.24	(0.33, 3.17)	242	0.68
<b>TOTAL</b>	<b>4668</b>	<b>59</b>	<b>1.26</b>	<b>1.10</b>	<b>1.36</b>	<b>(1.04, 1.76)</b>	<b>3756</b>	<b>0.86</b>
<b>Samaritan Hospital</b>								
#Bishop G	48	2	4.17	1.33	3.71	(0.42,13.38)	16	14.50 *
##Delago A	20	0	0.00	3.15	0.00	(0.00, 6.90)	4	0.00
##Esper D	25	2	8.00	5.44	1.74	(0.20, 6.29)	2	0.00
##Maroney J	35	0	0.00	1.94	0.00	(0.00, 6.40)	15	0.00
#Martinelli M	14	0	0.00	1.57	0.00	(0.00,19.80)	4	0.00
##Papaleo R	379	3	0.79	0.68	1.39	(0.28, 4.05)	291	0.86
#Roccario E	15	1	6.67	3.35	2.36	(0.03,13.11)	4	0.00
##Winston B	57	2	3.51	1.25	3.31	(0.37,11.96)	20	6.49
All Others	13	0	0.00	0.39	0.00	(0.00,84.61)	13	0.00
<b>TOTAL</b>	<b>606</b>	<b>10</b>	<b>1.65</b>	<b>1.21</b>	<b>1.61</b>	<b>(0.77, 2.96)</b>	<b>369</b>	<b>2.16</b>
<b>Saratoga Hospital</b>								
All Others	163	4	2.45	1.31	2.22	(0.60, 5.69)	137	1.99
<b>TOTAL</b>	<b>163</b>	<b>4</b>	<b>2.45</b>	<b>1.31</b>	<b>2.22</b>	<b>(0.60, 5.69)</b>	<b>137</b>	<b>1.99</b>
<b>South Nassau Communities Hospital</b>								
#Freeman J	593	9	1.52	1.16	1.55	(0.71, 2.94)	438	1.73
##Hormozi S	14	1	7.14	2.58	3.28	(0.04,18.28)	2	0.00
#Patel M	12	1	8.33	1.37	7.18	(0.09,39.98)	8	6.35
#Petrossian G	40	0	0.00	1.58	0.00	(0.00, 6.86)	38	0.00
Rehman A	437	5	1.14	1.31	1.03	(0.33, 2.41)	258	0.52
##Rehman S	19	0	0.00	0.33	0.00	(0.00,69.34)	19	0.00
#Zisfein J	239	2	0.84	0.66	1.49	(0.17, 5.39)	217	1.34
All Others	36	1	2.78	1.46	2.25	(0.03,12.54)	23	3.12
<b>TOTAL</b>	<b>1390</b>	<b>19</b>	<b>1.37</b>	<b>1.15</b>	<b>1.41</b>	<b>(0.85, 2.20)</b>	<b>1003</b>	<b>1.35</b>
<b>Southside Hospital</b>								
##Arkonac B	482	6	1.24	1.14	1.29	(0.47, 2.82)	432	0.79
##Bagga R	6	0	0.00	0.19	0.00	(0.00,100.0)	6	0.00
##Bench T	4	0	0.00	0.12	0.00	(0.00,100.0)	4	0.00
##Caselnova R	32	1	3.13	3.52	1.05	(0.01, 5.85)	14	0.00
##Deutsch E	120	0	0.00	0.95	0.00	(0.00, 3.81)	99	0.00
##Franco J	25	0	0.00	1.60	0.00	(0.00,10.84)	20	0.00
##Galler B	7	0	0.00	0.56	0.00	(0.00,100.0)	7	0.00
#Gandrotra P	567	5	0.88	0.93	1.12	(0.36, 2.62)	498	0.99
##Hormozi S	296	3	1.01	0.92	1.30	(0.26, 3.81)	256	1.75
#Korlipara G	1	0	0.00	0.28	0.00	(0.00,100.0)	1	0.00
#Lederman S	6	0	0.00	1.78	0.00	(0.00,40.73)	6	0.00
#Lee P J	257	5	1.95	0.77	3.00	(0.97, 7.00)	234	1.94
##Ong L Y	8	0	0.00	2.02	0.00	(0.00,26.92)	7	0.00
##Patel R B	72	0	0.00	1.17	0.00	(0.00, 5.15)	31	0.00
##Poumpouridis K	15	0	0.00	0.27	0.00	(0.00,100.0)	14	0.00
#Reich D	214	2	0.93	0.79	1.40	(0.16, 5.05)	188	1.28
##Selim S	19	0	0.00	0.72	0.00	(0.00,31.90)	17	0.00
All Others	11	0	0.00	1.14	0.00	(0.00,34.73)	10	0.00
<b>TOTAL</b>	<b>2142</b>	<b>22</b>	<b>1.03</b>	<b>0.99</b>	<b>1.22</b>	<b>(0.77, 1.85)</b>	<b>1844</b>	<b>1.03</b>
<b>St. Barnabas Hospital</b>								
##Amsalem Y	14	0	0.00	1.89	0.00	(0.00,16.41)	2	0.00
##Bortnick A	7	0	0.00	1.40	0.00	(0.00,44.21)	5	0.00
##Celaj S	414	6	1.45	0.81	2.13	(0.78, 4.63)	366	0.65
##Greenberg M	8	0	0.00	1.43	0.00	(0.00,37.99)	1	0.00
##Johnson M	9	0	0.00	2.93	0.00	(0.00,16.48)	1	0.00
##Menegus M	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
##Monrad E	1	1	100.00	2.48	47.69	(0.62,100.0)	1	23.53

Table 5, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>St. Barnabas Hospital, <i>continued</i></b>								
##Pyo R	14	1	7.14	4.91	1.72	(0.02, 9.59)	3	0.00
##Shaqra H	5	0	0.00	4.49	0.00	(0.00,19.34)	1	0.00
All Others	1	0	0.00	0.17	0.00	(0.00,100.0)	1	0.00
<b>TOTAL</b>	<b>474</b>	<b>8</b>	<b>1.69</b>	<b>1.06</b>	<b>1.89</b>	<b>(0.81, 3.72)</b>	<b>382</b>	<b>0.89</b>
<b>St. Catherine of Siena Medical Center</b>								
##Deutsch E	232	1	0.43	0.77	0.66	(0.01, 3.67)	200	0.00
##Franco J	83	0	0.00	1.47	0.00	(0.00, 3.57)	70	0.00
##Hormozi S	201	2	1.00	0.89	1.33	(0.15, 4.81)	171	0.58
##Khan S	86	3	3.49	0.83	4.96	(1.00,14.48)	71	0.00
##Patel N	25	0	0.00	2.03	0.00	(0.00, 8.55)	12	0.00
##Patel R B	74	2	2.70	1.88	1.71	(0.19, 6.16)	41	3.12
##Rosenband M	136	0	0.00	1.06	0.00	(0.00, 3.01)	114	0.00
#Tsiamtsiouris T	1	0	0.00	0.61	0.00	(0.00,100.0)	.	.
##Weinstein J	30	1	3.33	2.58	1.53	(0.02, 8.50)	13	0.00
All Others	19	0	0.00	1.05	0.00	(0.00,21.80)	17	0.00
<b>TOTAL</b>	<b>887</b>	<b>9</b>	<b>1.01</b>	<b>1.11</b>	<b>1.08</b>	<b>(0.49, 2.06)</b>	<b>709</b>	<b>0.32</b>
<b>St. Elizabeth Medical Center</b>								
##Bhan R	415	7	1.69	1.21	1.65	(0.66, 3.40)	348	0.28
#Kelberman M	154	5	3.25	1.76	2.18	(0.70, 5.09)	124	1.37
##Kozman H	4	0	0.00	0.73	0.00	(0.00,100.0)	3	0.00
#Kudagi V	160	1	0.63	0.87	0.85	(0.01, 4.73)	137	0.00
#Kumar P	49	0	0.00	1.06	0.00	(0.00, 8.39)	39	0.00
#Maclsaac H	512	15	2.93	1.90	1.83	(1.02, 3.01)	423	1.24
#Mathew T C	128	1	0.78	1.45	0.64	(0.01, 3.55)	81	0.00
#Patel A	141	1	0.71	1.34	0.63	(0.01, 3.49)	91	0.00
#Sassower M	648	9	1.39	1.39	1.18	(0.54, 2.24)	551	0.99
#Varma P	162	2	1.23	1.42	1.03	(0.12, 3.72)	113	0.86
All Others	18	0	0.00	0.79	0.00	(0.00,30.42)	16	0.00
<b>TOTAL</b>	<b>2391</b>	<b>41</b>	<b>1.71</b>	<b>1.45</b>	<b>1.40</b>	<b>(1.01, 1.90)</b>	<b>1926</b>	<b>0.83</b>
<b>St. Francis Hospital</b>								
Abittan M	248	2	0.81	0.72	1.32	(0.15, 4.78)	243	1.05
Berke A	171	9	5.26	2.31	2.70 *	(1.23, 5.12)	152	2.66 *
Chung W	264	4	1.52	1.38	1.30	(0.35, 3.34)	222	1.01
##Deutsch E	3	0	0.00	0.26	0.00	(0.00,100.0)	3	0.00
Ezratty A	220	2	0.91	1.62	0.67	(0.07, 2.40)	181	0.80
##Friedman G H	299	6	2.01	1.51	1.57	(0.58, 3.43)	261	0.98
Goldman A B	47	1	2.13	2.07	1.22	(0.02, 6.78)	25	0.00
##Grunwald A	93	2	2.15	0.95	2.68	(0.30, 9.69)	68	3.17
##Hormozi S	4	0	0.00	0.35	0.00	(0.00,100.0)	4	0.00
##Khan S	5	0	0.00	0.80	0.00	(0.00,100.0)	5	0.00
##Koss J	23	0	0.00	0.99	0.00	(0.00,19.07)	17	0.00
Lituchy A	498	5	1.00	1.28	0.93	(0.30, 2.16)	462	0.68
Madrid A	198	1	0.51	1.14	0.52	(0.01, 2.92)	173	0.00
Mezzafonte S	351	1	0.28	1.38	0.24	(0.00, 1.36)	310	0.27
Minadeo J	156	6	3.85	1.95	2.33	(0.85, 5.07)	120	1.86
#Moses J	364	3	0.82	1.34	0.73	(0.15, 2.13)	363	0.51
Oruci E	184	2	1.09	1.16	1.11	(0.12, 4.00)	177	0.00
Pappas T	337	2	0.59	0.82	0.85	(0.10, 3.08)	330	0.00
##Patcha R	10	0	0.00	0.76	0.00	(0.00,57.24)	10	0.00
#Patel M	77	2	2.60	1.70	1.81	(0.20, 6.52)	75	1.85
##Patel N	2	0	0.00	0.22	0.00	(0.00,100.0)	2	0.00
#Petrossian G	805	8	0.99	1.14	1.03	(0.44, 2.03)	796	0.65
##Rosenband M	3	0	0.00	0.46	0.00	(0.00,100.0)	3	0.00
Shlofmitz R	2903	12	0.41	0.71	0.69	(0.36, 1.20)	2844	0.50
#Tsiamtsiouris T	357	6	1.68	1.52	1.31	(0.48, 2.86)	327	0.99
##Weinstein J	47	0	0.00	0.93	0.00	(0.00, 9.90)	45	0.00
#Yadav S	232	7	3.02	1.72	2.08	(0.83, 4.28)	184	1.22
All Others	134	4	2.99	1.40	2.52	(0.68, 6.46)	128	1.89
<b>TOTAL</b>	<b>8035</b>	<b>85</b>	<b>1.06</b>	<b>1.11</b>	<b>1.13</b>	<b>(0.90, 1.40)</b>	<b>7530</b>	<b>0.72</b>

Table 5, continued

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
<b>St. Josephs Hospital Health Center</b>								
#Amin N	37	1	2.70	1.19	2.69	(0.04,14.97)	28	2.37
Caputo R	1362	33	2.42	1.52	1.88 *	(1.30, 2.64)	1044	1.46 *
El-Khally Z	1261	10	0.79	1.49	0.63 **	(0.30, 1.16)	1033	0.37
Fischi M	729	10	1.37	1.36	1.19	(0.57, 2.19)	516	0.74
Iskander A	948	18	1.90	1.45	1.55	(0.92, 2.46)	718	1.40
O'Hern M	516	4	0.78	1.56	0.59	(0.16, 1.50)	382	0.56
Reger M	73	0	0.00	0.74	0.00	(0.00, 8.05)	68	0.00
Simons A	811	10	1.23	1.30	1.12	(0.54, 2.06)	546	0.63
All Others	40	0	0.00	2.07	0.00	(0.00, 5.26)	15	0.00
<b>TOTAL</b>	<b>5777</b>	<b>86</b>	<b>1.49</b>	<b>1.45</b>	<b>1.22</b>	<b>(0.97, 1.50)</b>	<b>4350</b>	<b>0.91</b>
<b>St. Lukes Cornwall Hospital - Newburgh</b>								
##Cuomo L	1	0	0.00	0.24	0.00	(0.00,100.0)	1	0.00
#Gosselin R	97	1	1.03	1.71	0.71	(0.01, 3.96)	74	0.78
##Gotsis W	4	0	0.00	1.03	0.00	(0.00,100.0)	4	0.00
#Hadid A	286	6	2.10	1.61	1.55	(0.56, 3.37)	210	0.89
#Hadid A B	125	2	1.60	1.53	1.24	(0.14, 4.49)	69	0.00
#Jafar M	3	0	0.00	0.61	0.00	(0.00,100.0)	3	0.00
#Patrello A	122	0	0.00	0.92	0.00	(0.00, 3.89)	105	0.00
#Shah N	253	4	1.58	1.73	1.08	(0.29, 2.77)	177	1.19
##Silverman G	1	0	0.00	0.08	0.00	(0.00,100.0)	1	0.00
<b>TOTAL</b>	<b>892</b>	<b>13</b>	<b>1.46</b>	<b>1.54</b>	<b>1.12</b>	<b>(0.60, 1.92)</b>	<b>644</b>	<b>0.78</b>
<b>St. Peters Hospital</b>								
#Bishop G	381	5	1.31	1.63	0.95	(0.31, 2.22)	239	0.40
##Delago A	9	1	11.11	2.47	5.33	(0.07,29.68)	.	.
##Esper D	297	4	1.35	1.05	1.52	(0.41, 3.88)	262	1.26
Khawaja H	24	0	0.00	0.17	0.00	(0.00,100.0)	24	0.00
##Maroney J	90	0	0.00	0.71	0.00	(0.00, 6.80)	80	0.00
#Martinelli M	639	5	0.78	0.92	1.01	(0.32, 2.35)	520	0.87
##Papaleo R	8	0	0.00	1.83	0.00	(0.00,29.71)	.	.
#Roccario E	626	12	1.92	1.48	1.53	(0.79, 2.68)	453	1.56
##Winston B	440	6	1.36	0.83	1.96	(0.71, 4.26)	389	0.94
All Others	88	2	2.27	0.82	3.28	(0.37,11.85)	58	0.00
<b>TOTAL</b>	<b>2602</b>	<b>35</b>	<b>1.35</b>	<b>1.15</b>	<b>1.39</b>	<b>(0.97, 1.93)</b>	<b>2025</b>	<b>0.99</b>
<b>Staten Island University Hospital- North</b>								
##Duvvuri S	157	2	1.27	0.77	1.97	(0.22, 7.11)	141	1.62
##Farid A	27	0	0.00	0.24	0.00	(0.00,67.75)	27	0.00
##Gala B	62	3	4.84	1.17	4.92	(0.99,14.37)	60	2.52
##Garyali S	3	0	0.00	0.44	0.00	(0.00,100.0)	3	0.00
##Hoyek W	169	1	0.59	0.94	0.75	(0.01, 4.16)	122	2.00
#Kandov R	520	3	0.58	0.77	0.89	(0.18, 2.59)	440	0.32
##Malpeso J	178	3	1.69	1.06	1.88	(0.38, 5.49)	125	2.28
##Rozzman R	257	2	0.78	1.22	0.76	(0.09, 2.74)	168	0.00
##Snyder S	137	2	1.46	1.11	1.55	(0.17, 5.61)	109	2.05
#Swamy S	15	0	0.00	0.42	0.00	(0.00,69.51)	15	0.00
#Tamburrino F	358	1	0.28	0.68	0.49	(0.01, 2.72)	303	0.00
Vazzana T	29	0	0.00	0.51	0.00	(0.00,29.49)	29	0.00
Warchol A	46	0	0.00	0.31	0.00	(0.00,30.05)	44	0.00
##Zgheib M	229	3	1.31	0.61	2.53	(0.51, 7.39)	225	1.89
All Others	51	0	0.00	0.81	0.00	(0.00,10.48)	28	0.00
<b>TOTAL</b>	<b>2238</b>	<b>20</b>	<b>0.89</b>	<b>0.84</b>	<b>1.26</b>	<b>(0.77, 1.95)</b>	<b>1839</b>	<b>0.98</b>
<b>Strong Memorial Hospital</b>								
Chaudhary I	201	3	1.49	2.66	0.67	(0.13, 1.94)	102	0.00
Cove C	406	7	1.72	1.25	1.63	(0.65, 3.37)	277	0.38
#Doling M	507	10	1.97	0.99	2.36	(1.13, 4.34)	393	2.38 *
Garringer J	261	2	0.77	0.96	0.95	(0.11, 3.42)	195	0.74
#Krishnamoorthy V	220	1	0.45	1.32	0.41	(0.01, 2.27)	138	0.00
Ling F	459	5	1.09	1.54	0.84	(0.27, 1.96)	299	0.62
Narins C	512	6	1.17	1.24	1.12	(0.41, 2.43)	317	1.32
##Stuver T	324	6	1.85	1.25	1.75	(0.64, 3.82)	234	0.50
All Others	119	0	0.00	1.15	0.00	(0.00, 3.18)	78	0.00
<b>TOTAL</b>	<b>3009</b>	<b>40</b>	<b>1.33</b>	<b>1.32</b>	<b>1.19</b>	<b>(0.85, 1.63)</b>	<b>2033</b>	<b>0.92</b>



Table 5, *continued*

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
<b>UHS - Wilson Medical Center</b>								
Ahmed O	360	3	0.83	1.56	0.63	(0.13, 1.85)	268	0.00
Kashou H	648	10	1.54	0.95	1.92	(0.92, 3.53)	496	0.72
Rehman A U	121	3	2.48	2.84	1.03	(0.21, 3.02)	67	1.77
Traverse P	421	3	0.71	1.29	0.65	(0.13, 1.91)	318	0.00
Vitellas M	278	8	2.88	1.60	2.12	(0.91, 4.19)	222	2.14
#Yarkoni A	239	3	1.26	1.60	0.93	(0.19, 2.71)	196	0.37
All Others	86	2	2.33	1.03	2.67	(0.30, 9.65)	64	2.72
<b>TOTAL</b>	<b>2153</b>	<b>32</b>	<b>1.49</b>	<b>1.39</b>	<b>1.27</b>	<b>(0.87, 1.79)</b>	<b>1631</b>	<b>0.72</b>
<b>Unity Hospital of Rochester</b>								
#Abtahian F	6	0	0.00	3.02	0.00	(0.00,23.95)	2	0.00
#Ahmed A	12	0	0.00	1.91	0.00	(0.00,19.00)	5	0.00
##Chockalingam S	123	5	4.07	2.23	2.16	(0.70, 5.04)	69	1.04
#Gacioch G	3	1	33.33	9.16	4.31	(0.06,23.99)	2	0.00
##Ong L S	38	0	0.00	1.86	0.00	(0.00, 6.15)	14	0.00
#Patel T	709	17	2.40	1.67	1.70	(0.99, 2.73)	520	1.00
#Singer G	27	0	0.00	1.99	0.00	(0.00, 8.10)	18	0.00
All Others	2	0	0.00	0.63	0.00	(0.00,100.0)	1	0.00
<b>TOTAL</b>	<b>920</b>	<b>23</b>	<b>2.50</b>	<b>1.79</b>	<b>1.65</b>	<b>(1.05, 2.48)</b>	<b>631</b>	<b>0.90</b>
<b>Univ. of Vermont Health Network CVP Hosp</b>								
Bradley W	433	6	1.39	1.07	1.54	(0.56, 3.35)	330	1.00
Garrand T	365	5	1.37	1.05	1.54	(0.50, 3.60)	266	1.37
Gauthier E	585	10	1.71	0.84	2.40	(1.15, 4.42)	435	1.56
Ishac R	313	4	1.28	1.17	1.30	(0.35, 3.32)	227	1.23
Terrien E	31	0	0.00	1.65	0.00	(0.00, 8.48)	26	0.00
All Others	8	0	0.00	3.16	0.00	(0.00,17.18)	6	0.00
<b>TOTAL</b>	<b>1735</b>	<b>25</b>	<b>1.44</b>	<b>1.03</b>	<b>1.66</b>	<b>(1.08, 2.46)</b>	<b>1290</b>	<b>1.21</b>
<b>University Hospital at Stony Brook</b>								
##Bench T	47	0	0.00	0.97	0.00	(0.00, 9.48)	45	0.00
Dervan J	166	1	0.60	1.19	0.60	(0.01, 3.33)	155	0.71
Gruberg L	622	10	1.61	1.61	1.19	(0.57, 2.18)	403	0.93
Jeremias A	470	14	2.98	2.14	1.65	(0.90, 2.77)	290	1.29
##Joseph S	43	1	2.33	1.10	2.50	(0.03,13.89)	42	1.65
##Khan S	89	0	0.00	0.78	0.00	(0.00, 6.27)	86	0.00
#Korlipara G	229	2	0.87	0.66	1.56	(0.18, 5.65)	217	1.07
Lawson W	474	9	1.90	1.76	1.28	(0.58, 2.42)	294	0.55
#Lederman S	246	0	0.00	1.25	0.00	(0.00, 1.41)	230	0.00
Mani A	672	13	1.93	2.28	1.01	(0.54, 1.72)	454	0.53
Montellese D	136	1	0.74	0.86	1.01	(0.01, 5.62)	124	0.88
##Patel N	325	2	0.62	0.90	0.81	(0.09, 2.92)	289	0.00
#Pulipati B	24	1	4.17	0.46	10.70	(0.14,59.51)	24	6.06
##Rosenband M	112	1	0.89	1.17	0.90	(0.01, 5.01)	109	0.70
##Weinstein J	345	5	1.45	1.09	1.57	(0.51, 3.67)	310	0.94
All Others	159	4	2.52	1.69	1.76	(0.47, 4.51)	85	1.10
<b>TOTAL</b>	<b>4159</b>	<b>64</b>	<b>1.54</b>	<b>1.54</b>	<b>1.19</b>	<b>(0.91, 1.52)</b>	<b>3157</b>	<b>0.70</b>
<b>University Hospital of Brooklyn</b>								
#Badero O	6	0	0.00	0.24	0.00	(0.00,100.0)	6	0.00
#Castillo R	19	1	5.26	4.43	1.41	(0.02, 7.83)	1	0.00
Cavusoglu E	241	4	1.66	2.11	0.93	(0.25, 2.38)	164	0.50
#Chadow H	13	0	0.00	3.27	0.00	(0.00,10.21)	.	.
Dogar M	91	1	1.10	1.55	0.84	(0.01, 4.68)	78	1.17
Feit A	150	3	2.00	1.96	1.21	(0.24, 3.53)	104	1.04
#Hegde S	61	2	3.28	2.83	1.37	(0.15, 4.95)	23	0.00
John S	68	2	2.94	1.74	2.00	(0.22, 7.21)	58	1.08
Marmur J	253	8	3.16	2.32	1.61	(0.69, 3.18)	148	0.41
##Rehman S	5	0	0.00	0.38	0.00	(0.00,100.0)	5	0.00
#Shohat E	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
<b>TOTAL</b>	<b>908</b>	<b>21</b>	<b>2.31</b>	<b>2.15</b>	<b>1.27</b>	<b>(0.79, 1.95)</b>	<b>588</b>	<b>0.66</b>

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>Upstate University Hospital - SUNY</b>								
##Bhan R	35	2	5.71	0.83	8.12	(0.91,29.33)	27	12.20 *
Ford T	138	1	0.72	1.91	0.45	(0.01, 2.50)	64	0.00
##Kozman H	236	10	4.24	1.55	3.24 *	(1.55, 5.96)	147	3.11 *
All Others	234	5	2.14	1.85	1.37	(0.44, 3.19)	147	2.35
<b>TOTAL</b>	<b>643</b>	<b>18</b>	<b>2.80</b>	<b>1.70</b>	<b>1.95</b>	<b>(1.16, 3.09)</b>	<b>385</b>	<b>2.58 *</b>
<b>Vassar Brothers Medical Center</b>								
Gorwara S	413	8	1.94	2.06	1.12	(0.48, 2.20)	281	0.77
#Gosselin R	22	0	0.00	0.84	0.00	(0.00,23.37)	17	0.00
#Jafar M	929	14	1.51	1.38	1.29	(0.70, 2.16)	709	0.61
Kantaros L	380	6	1.58	1.34	1.39	(0.51, 3.03)	268	0.74
#Patrello A	114	1	0.88	1.69	0.61	(0.01, 3.42)	94	0.00
#Shah N	3	0	0.00	0.40	0.00	(0.00,100.0)	3	0.00
Yen M	338	3	0.89	1.37	0.77	(0.15, 2.25)	228	0.36
<b>TOTAL</b>	<b>2199</b>	<b>32</b>	<b>1.46</b>	<b>1.51</b>	<b>1.14</b>	<b>(0.78, 1.61)</b>	<b>1600</b>	<b>0.59</b>
<b>Westchester Medical Center</b>								
Ahmad H	289	7	2.42	1.75	1.64	(0.66, 3.37)	166	0.00
##Charney R	32	0	0.00	0.38	0.00	(0.00,35.56)	31	0.00
#Cohen M B	262	5	1.91	2.22	1.02	(0.33, 2.38)	163	0.79
##Cuomo L	56	1	1.79	1.95	1.09	(0.01, 6.05)	33	2.00
##Gotsis W	43	0	0.00	1.68	0.00	(0.00, 6.01)	26	0.00
#Hadid A	11	0	0.00	0.42	0.00	(0.00,93.15)	11	0.00
#Hadid A B	2	0	0.00	0.24	0.00	(0.00,100.0)	2	0.00
##Messinger D	19	1	5.26	0.76	8.17	(0.11,45.44)	18	6.52
#Naidu S	6	0	0.00	0.54	0.00	(0.00,100.0)	6	0.00
##Shih A T	8	0	0.00	1.30	0.00	(0.00,41.72)	7	0.00
##Silverman G	17	0	0.00	1.39	0.00	(0.00,18.38)	12	0.00
Timmermans R	300	5	1.67	2.06	0.96	(0.31, 2.23)	158	0.94
All Others	130	3	2.31	2.29	1.19	(0.24, 3.49)	84	1.50
<b>TOTAL</b>	<b>1175</b>	<b>22</b>	<b>1.87</b>	<b>1.92</b>	<b>1.16</b>	<b>(0.72, 1.75)</b>	<b>717</b>	<b>0.82</b>
<b>White Plains Hospital</b>								
##Apfelbaum M	29	1	3.45	2.36	1.73	(0.02, 9.62)	12	0.00
##Bliagos D	588	10	1.70	1.59	1.27	(0.61, 2.33)	510	0.86
##Charney R	142	1	0.70	1.17	0.72	(0.01, 3.98)	105	0.00
#Cohen M B	4	0	0.00	0.12	0.00	(0.00,100.0)	4	0.00
##Greenberg M	246	2	0.81	0.90	1.08	(0.12, 3.88)	188	0.64
##Hjemdahl-Monsen	62	0	0.00	0.76	0.00	(0.00, 9.18)	57	0.00
##Irobunda C	4	0	0.00	0.41	0.00	(0.00,100.0)	2	0.00
##Johnson M	20	0	0.00	1.71	0.00	(0.00,12.71)	9	0.00
##Kalapatapu K	112	1	0.89	0.68	1.56	(0.02, 8.67)	106	1.17
##Messinger D	106	1	0.94	1.11	1.00	(0.01, 5.58)	90	0.91
All Others	1	0	0.00	6.09	0.00	(0.00,71.29)	.	.
<b>TOTAL</b>	<b>1314</b>	<b>16</b>	<b>1.22</b>	<b>1.27</b>	<b>1.13</b>	<b>(0.65, 1.84)</b>	<b>1083</b>	<b>0.73</b>
<b>Statewide Total</b>	<b>146568</b>	<b>1736</b>	<b>1.18</b>				<b>120742</b>	<b>0.77</b>

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

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

# Performed procedures in another NYS hospital.

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



**Table 6****Summary Information for Cardiologists Practicing at More Than One Hospital, 2014-2016**

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Abtahian F</b>	<b>216</b>	<b>4</b>	<b>1.85</b>	<b>1.49</b>	<b>1.47</b>	<b>(0.40, 3.77)</b>	<b>145</b>	<b>1.06</b>
Rochester General Hosp	210	4	1.90	1.44	1.56	(0.42, 4.00)	143	1.06
Unity Hospital	6	0	0.00	3.02	0.00	(0.00,23.95)	2	0.00
<b>Agarwal A</b>	<b>156</b>	<b>1</b>	<b>0.64</b>	<b>1.25</b>	<b>0.61</b>	<b>(0.01, 3.39)</b>	<b>110</b>	<b>0.00</b>
Good Sam - Suffern	149	1	0.67	1.29	0.61	(0.01, 3.42)	103	0.00
Orange Regional Med Ctr	7	0	0.00	0.21	0.00	(0.00,100.0)	7	0.00
<b>Ahmed A</b>	<b>272</b>	<b>3</b>	<b>1.10</b>	<b>1.47</b>	<b>0.89</b>	<b>(0.18, 2.59)</b>	<b>187</b>	<b>0.84</b>
Rochester General Hosp	260	3	1.15	1.45	0.94	(0.19, 2.75)	182	0.86
Unity Hospital	12	0	0.00	1.91	0.00	(0.00,19.00)	5	0.00
<b>Ali Z</b>	<b>473</b>	<b>8</b>	<b>1.69</b>	<b>1.26</b>	<b>1.59</b>	<b>(0.68, 3.13)</b>	<b>420</b>	<b>0.75</b>
NYP-Columbia Presby.	466	8	1.72	1.26	1.61	(0.69, 3.17)	416	0.75
NYP-Lawrence Hosp	7	0	0.00	0.93	0.00	(0.00,66.56)	4	0.00
<b>Amin N</b>	<b>349</b>	<b>4</b>	<b>1.15</b>	<b>1.34</b>	<b>1.02</b>	<b>(0.27, 2.60)</b>	<b>252</b>	<b>0.72</b>
Arnot Ogden Med Ctr	312	3	0.96	1.35	0.84	(0.17, 2.46)	224	0.43
St. Josephs Hospital	37	1	2.70	1.19	2.69	(0.04,14.97)	28	2.37
<b>Amsalem Y</b>	<b>392</b>	<b>3</b>	<b>0.77</b>	<b>1.54</b>	<b>0.59</b>	<b>(0.12, 1.72)</b>	<b>277</b>	<b>0.29</b>
BronxCare Health System	66	1	1.52	1.47	1.22	(0.02, 6.81)	47	1.24
Montefiore - Moses	256	2	0.78	1.54	0.60	(0.07, 2.17)	180	0.00
Mount Sinai St. Lukes	56	0	0.00	1.51	0.00	(0.00, 5.14)	48	0.00
St. Barnabas Hospital	14	0	0.00	1.89	0.00	(0.00,16.41)	2	0.00
<b>Apfelbaum M</b>	<b>97</b>	<b>1</b>	<b>1.03</b>	<b>1.15</b>	<b>1.07</b>	<b>(0.01, 5.93)</b>	<b>65</b>	<b>0.00</b>
NYP-Columbia Presby.	33	0	0.00	0.41	0.00	(0.00,32.38)	32	0.00
NYP-Lawrence Hosp	35	0	0.00	0.83	0.00	(0.00,14.87)	21	0.00
White Plains Hospital	29	1	3.45	2.36	1.73	(0.02, 9.62)	12	0.00
<b>Arkonac B</b>	<b>512</b>	<b>6</b>	<b>1.17</b>	<b>1.11</b>	<b>1.25</b>	<b>(0.46, 2.73)</b>	<b>462</b>	<b>0.76</b>
Good Sam-West Islip	25	0	0.00	0.66	0.00	(0.00,26.43)	25	0.00
Long Island Jewish MC	5	0	0.00	0.28	0.00	(0.00,100.0)	5	0.00
Southside Hospital	482	6	1.24	1.14	1.29	(0.47, 2.82)	432	0.79
<b>Aslam A F</b>	<b>245</b>	<b>5</b>	<b>2.04</b>	<b>0.72</b>	<b>3.34</b>	<b>(1.07, 7.78)</b>	<b>220</b>	<b>1.39</b>
Mount Sinai Beth Israel	97	4	4.12	1.30	3.76	(1.01, 9.64)	78	3.06
NYP-Brooklyn Methodist	148	1	0.68	0.35	2.29	(0.03,12.75)	142	0.00
<b>Aslam A K</b>	<b>314</b>	<b>0</b>	<b>0.00</b>	<b>0.25</b>	<b>0.00</b>	<b>(0.00, 5.57)</b>	<b>310</b>	<b>0.00</b>
Mount Sinai Beth Israel	161	0	0.00	0.24	0.00	(0.00,11.43)	160	0.00
NYP-Brooklyn Methodist	153	0	0.00	0.26	0.00	(0.00,10.89)	150	0.00
<b>Attubato M</b>	<b>1395</b>	<b>13</b>	<b>0.93</b>	<b>0.76</b>	<b>1.45</b>	<b>(0.77, 2.48)</b>	<b>1313</b>	<b>1.09</b>
Bellevue Hospital Ctr	8	0	0.00	2.86	0.00	(0.00,18.99)	1	0.00
NYU Hospitals Center	1387	13	0.94	0.75	1.48	(0.79, 2.53)	1312	1.09
<b>Babaev A</b>	<b>768</b>	<b>3</b>	<b>0.39</b>	<b>0.55</b>	<b>0.84</b>	<b>(0.17, 2.44)</b>	<b>749</b>	<b>0.65</b>
Bellevue Hospital Ctr	10	0	0.00	2.68	0.00	(0.00,16.20)	1	0.00
NYU Hospitals Center	758	3	0.40	0.53	0.89	(0.18, 2.60)	748	0.66
<b>Badero O</b>	<b>136</b>	<b>0</b>	<b>0.00</b>	<b>0.28</b>	<b>0.00</b>	<b>(0.00,11.46)</b>	<b>136</b>	<b>0.00</b>
NYP-Brooklyn Methodist	130	0	0.00	0.28	0.00	(0.00,11.92)	130	0.00
Univ. Hosp-Brooklyn	6	0	0.00	0.24	0.00	(0.00,100.0)	6	0.00

Table 6, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Bagga R</b>	<b>601</b>	<b>6</b>	<b>1.00</b>	<b>1.00</b>	<b>1.18</b>	<b>(0.43, 2.57)</b>	<b>510</b>	<b>0.67</b>
Huntington Hospital	580	6	1.03	1.00	1.22	(0.45, 2.66)	489	0.71
Long Island Jewish MC	13	0	0.00	1.23	0.00	(0.00,27.07)	13	0.00
North Shore Univ Hosp	2	0	0.00	1.31	0.00	(0.00,100.0)	2	0.00
Southside Hospital	6	0	0.00	0.19	0.00	(0.00,100.0)	6	0.00
<b>Bangalore S</b>	<b>438</b>	<b>9</b>	<b>2.05</b>	<b>1.95</b>	<b>1.25</b>	<b>(0.57, 2.37)</b>	<b>338</b>	<b>0.40</b>
Bellevue Hospital Ctr	403	9	2.23	2.04	1.29	(0.59, 2.46)	312	0.41
NYU Hospitals Center	35	0	0.00	0.82	0.00	(0.00,15.09)	26	0.00
<b>Barman N</b>	<b>195</b>	<b>3</b>	<b>1.54</b>	<b>1.38</b>	<b>1.32</b>	<b>(0.26, 3.85)</b>	<b>149</b>	<b>0.95</b>
Elmhurst Hospital Ctr	25	1	4.00	2.64	1.79	(0.02, 9.99)	1	0.00
Mount Sinai Hospital	170	2	1.18	1.20	1.16	(0.13, 4.19)	148	0.98
<b>Bench T</b>	<b>249</b>	<b>0</b>	<b>0.00</b>	<b>1.08</b>	<b>0.00</b>	<b>(0.00, 1.61)</b>	<b>186</b>	<b>0.00</b>
Long Island Comm. Hosp.	198	0	0.00	1.13	0.00	(0.00, 1.95)	137	0.00
Southside Hospital	4	0	0.00	0.12	0.00	(0.00,100.0)	4	0.00
Univ. Hosp-Stony Brook	47	0	0.00	0.97	0.00	(0.00, 9.48)	45	0.00
<b>Bhan R</b>	<b>462</b>	<b>10</b>	<b>2.16</b>	<b>1.24</b>	<b>2.06</b>	<b>(0.99, 3.79)</b>	<b>382</b>	<b>0.80</b>
Faxton - St. Lukes	12	1	8.33	3.56	2.77	(0.04,15.43)	7	0.00
St. Elizabeth Med Ctr	415	7	1.69	1.21	1.65	(0.66, 3.40)	348	0.28
Univ. Hosp-Upstate	35	2	5.71	0.83	8.12	(0.91,29.33)	27	12.20 *
<b>Bishop G</b>	<b>429</b>	<b>7</b>	<b>1.63</b>	<b>1.60</b>	<b>1.21</b>	<b>(0.48, 2.49)</b>	<b>255</b>	<b>1.14</b>
Samaritan Hospital	48	2	4.17	1.33	3.71	(0.42,13.38)	16	14.50 *
St. Peters Hospital	381	5	1.31	1.63	0.95	(0.31, 2.22)	239	0.40
<b>Bliagos D</b>	<b>913</b>	<b>12</b>	<b>1.31</b>	<b>1.46</b>	<b>1.06</b>	<b>(0.55, 1.86)</b>	<b>810</b>	<b>0.64</b>
Montefiore - Moses	210	1	0.48	1.45	0.39	(0.01, 2.17)	186	0.00
Mount Sinai Hospital	115	1	0.87	0.84	1.23	(0.02, 6.86)	114	0.84
White Plains Hospital	588	10	1.70	1.59	1.27	(0.61, 2.33)	510	0.86
<b>Bortnick A</b>	<b>325</b>	<b>8</b>	<b>2.46</b>	<b>1.75</b>	<b>1.67</b>	<b>(0.72, 3.29)</b>	<b>243</b>	<b>1.14</b>
Montefiore - Moses	29	1	3.45	1.57	2.61	(0.03,14.51)	28	1.74
Montefiore - Weiler	289	7	2.42	1.78	1.62	(0.65, 3.33)	210	1.05
St. Barnabas Hospital	7	0	0.00	1.40	0.00	(0.00,44.21)	5	0.00
<b>Boutis L</b>	<b>1167</b>	<b>17</b>	<b>1.46</b>	<b>1.22</b>	<b>1.41</b>	<b>(0.82, 2.26)</b>	<b>965</b>	<b>1.07</b>
Long Island Jewish MC	29	1	3.45	2.22	1.84	(0.02,10.24)	5	19.53
North Shore Univ Hosp	1138	16	1.41	1.20	1.39	(0.79, 2.26)	960	0.98
<b>Calandra S</b>	<b>477</b>	<b>6</b>	<b>1.26</b>	<b>1.33</b>	<b>1.12</b>	<b>(0.41, 2.44)</b>	<b>339</b>	<b>1.08</b>
Buffalo General Med Ctr	1	0	0.00	1.32	0.00	(0.00,100.0)	1	0.00
Mercy Hospital-Buffalo	476	6	1.26	1.33	1.12	(0.41, 2.44)	338	1.09
<b>Caselnova R</b>	<b>530</b>	<b>8</b>	<b>1.51</b>	<b>1.01</b>	<b>1.77</b>	<b>(0.76, 3.49)</b>	<b>462</b>	<b>1.27</b>
Good Sam-West Islip	429	6	1.40	0.85	1.96	(0.72, 4.26)	384	1.29
Long Island Comm. Hosp.	3	0	0.00	2.16	0.00	(0.00,66.91)	.	.
NYU Winthrop Hospital	66	1	1.52	0.82	2.20	(0.03,12.24)	64	1.41
Southside Hospital	32	1	3.13	3.52	1.05	(0.01, 5.85)	14	0.00
<b>Castillo R</b>	<b>327</b>	<b>5</b>	<b>1.53</b>	<b>1.86</b>	<b>0.97</b>	<b>(0.31, 2.27)</b>	<b>222</b>	<b>0.24</b>
Brookdale Univ Hosp Med Ctr	308	4	1.30	1.70	0.90	(0.24, 2.31)	221	0.24
Univ. Hosp-Brooklyn	19	1	5.26	4.43	1.41	(0.02, 7.83)	1	0.00
<b>Celaj S</b>	<b>742</b>	<b>11</b>	<b>1.48</b>	<b>1.13</b>	<b>1.56</b>	<b>(0.78, 2.78)</b>	<b>599</b>	<b>0.67</b>
BronxCare Health System	40	4	10.00	3.76	3.15	(0.85, 8.07)	4	27.41
Montefiore - Moses	288	1	0.35	1.23	0.34	(0.00, 1.86)	229	0.35
St. Barnabas Hospital	414	6	1.45	0.81	2.13	(0.78, 4.63)	366	0.65
<b>Chadow H</b>	<b>250</b>	<b>3</b>	<b>1.20</b>	<b>2.11</b>	<b>0.67</b>	<b>(0.14, 1.97)</b>	<b>153</b>	<b>0.00</b>
Brookdale Univ Hosp Med Ctr	237	3	1.27	2.04	0.73	(0.15, 2.14)	153	0.00
Univ. Hosp-Brooklyn	13	0	0.00	3.27	0.00	(0.00,10.21)	.	.

Table 6, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Charney R</b>	<b>342</b>	<b>1</b>	<b>0.29</b>	<b>0.98</b>	<b>0.35</b>	<b>(0.00, 1.96)</b>	<b>303</b>	<b>0.00</b>
Montefiore - Moses	3	0	0.00	0.38	0.00	(0.00,100.0)	3	0.00
Montefiore - Weiler	66	0	0.00	1.06	0.00	(0.00, 6.22)	66	0.00
NYP-Weill Cornell	99	0	0.00	0.88	0.00	(0.00, 4.99)	98	0.00
Westchester Med Ctr	32	0	0.00	0.38	0.00	(0.00,35.56)	31	0.00
White Plains Hospital	142	1	0.70	1.17	0.72	(0.01, 3.98)	105	0.00
<b>Chengot T</b>	<b>203</b>	<b>4</b>	<b>1.97</b>	<b>1.19</b>	<b>1.96</b>	<b>(0.53, 5.01)</b>	<b>176</b>	<b>1.34</b>
Good Sam-West Islip	159	2	1.26	1.13	1.32	(0.15, 4.75)	134	0.96
NYU Winthrop Hospital	44	2	4.55	1.41	3.82	(0.43,13.81)	42	2.19
<b>Chockalingam S</b>	<b>275</b>	<b>7</b>	<b>2.55</b>	<b>1.54</b>	<b>1.95</b>	<b>(0.78, 4.03)</b>	<b>204</b>	<b>0.42</b>
Olean General Hosp.	13	0	0.00	0.76	0.00	(0.00,44.23)	7	0.00
Rochester General Hosp	139	2	1.44	1.01	1.69	(0.19, 6.11)	128	0.00
Unity Hospital	123	5	4.07	2.23	2.16	(0.70, 5.04)	69	1.04
<b>Cohen M B</b>	<b>266</b>	<b>5</b>	<b>1.88</b>	<b>2.19</b>	<b>1.02</b>	<b>(0.33, 2.37)</b>	<b>167</b>	<b>0.79</b>
Westchester Med Ctr	262	5	1.91	2.22	1.02	(0.33, 2.38)	163	0.79
White Plains Hospital	4	0	0.00	0.12	0.00	(0.00,100.0)	4	0.00
<b>Conley J</b>	<b>792</b>	<b>8</b>	<b>1.01</b>	<b>1.05</b>	<b>1.14</b>	<b>(0.49, 2.24)</b>	<b>646</b>	<b>0.78</b>
Buffalo General Med Ctr	600	7	1.17	1.17	1.18	(0.47, 2.43)	460	0.84
Mercy Hospital-Buffalo	192	1	0.52	0.68	0.91	(0.01, 5.04)	186	0.60
<b>Coppola J</b>	<b>347</b>	<b>4</b>	<b>1.15</b>	<b>1.07</b>	<b>1.28</b>	<b>(0.34, 3.27)</b>	<b>288</b>	<b>0.75</b>
Bellevue Hospital Ctr	197	3	1.52	1.37	1.32	(0.27, 3.86)	143	0.60
NYU Hospitals Center	150	1	0.67	0.68	1.17	(0.02, 6.49)	145	1.03
<b>Coven D</b>	<b>104</b>	<b>2</b>	<b>1.92</b>	<b>2.35</b>	<b>0.97</b>	<b>(0.11, 3.49)</b>	<b>79</b>	<b>0.83</b>
Lenox Hill Hospital	82	1	1.22	2.36	0.61	(0.01, 3.41)	64	0.96
Mount Sinai St. Lukes	22	1	4.55	2.33	2.31	(0.03,12.86)	15	0.00
<b>Cuomo L</b>	<b>250</b>	<b>2</b>	<b>0.80</b>	<b>1.31</b>	<b>0.72</b>	<b>(0.08, 2.61)</b>	<b>147</b>	<b>0.55</b>
Orange Regional Med Ctr	193	1	0.52	1.13	0.54	(0.01, 3.01)	113	0.00
St. Lukes Cornwall Hosp	1	0	0.00	0.24	0.00	(0.00,100.0)	1	0.00
Westchester Med Ctr	56	1	1.79	1.95	1.09	(0.01, 6.05)	33	2.00
<b>David M</b>	<b>123</b>	<b>1</b>	<b>0.81</b>	<b>0.29</b>	<b>3.37</b>	<b>(0.04,18.75)</b>	<b>123</b>	<b>2.27</b>
NYP-Queens	20	1	5.00	0.27	21.91	(0.29,100.0)	20	18.10
NYU Hospitals Center	103	0	0.00	0.29	0.00	(0.00,14.61)	103	0.00
<b>Delago A</b>	<b>672</b>	<b>21</b>	<b>3.13</b>	<b>1.32</b>	<b>2.80 *</b>	<b>(1.73, 4.27)</b>	<b>555</b>	<b>2.10 *</b>
Albany Med. Ctr	642	20	3.12	1.25	2.95 *	(1.80, 4.55)	550	2.10 *
Glens Falls Hospital	1	0	0.00	0.12	0.00	(0.00,100.0)	1	0.00
Samaritan Hospital	20	0	0.00	3.15	0.00	(0.00, 6.90)	4	0.00
St. Peters Hospital	9	1	11.11	2.47	5.33	(0.07,29.68)	.	.
<b>Deutsch E</b>	<b>855</b>	<b>5</b>	<b>0.58</b>	<b>0.71</b>	<b>0.97</b>	<b>(0.31, 2.27)</b>	<b>775</b>	<b>0.43</b>
Good Sam-West Islip	500	4	0.80	0.63	1.50	(0.40, 3.85)	473	0.79
Southside Hospital	120	0	0.00	0.95	0.00	(0.00, 3.81)	99	0.00
St. Catherine of Siena	232	1	0.43	0.77	0.66	(0.01, 3.67)	200	0.00
St. Francis Hospital	3	0	0.00	0.26	0.00	(0.00,100.0)	3	0.00
<b>Dhama B</b>	<b>229</b>	<b>3</b>	<b>1.31</b>	<b>0.84</b>	<b>1.85</b>	<b>(0.37, 5.42)</b>	<b>220</b>	<b>1.26</b>
Long Island Jewish MC	168	3	1.79	0.90	2.35	(0.47, 6.87)	161	1.60
North Shore Univ Hosp	61	0	0.00	0.66	0.00	(0.00,10.72)	59	0.00
<b>Doling M</b>	<b>515</b>	<b>10</b>	<b>1.94</b>	<b>0.98</b>	<b>2.34</b>	<b>(1.12, 4.31)</b>	<b>401</b>	<b>2.35 *</b>
Rochester General Hosp	8	0	0.00	0.43	0.00	(0.00,100.0)	8	0.00
Strong Memorial Hosp	507	10	1.97	0.99	2.36	(1.13, 4.34)	393	2.39 *

Table 6, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Dominguez-Echevarria A</b>	<b>266</b>	<b>1</b>	<b>0.38</b>	<b>1.13</b>	<b>0.39</b>	<b>(0.01, 2.19)</b>	<b>262</b>	<b>0.26</b>
Lenox Hill Hospital	8	0	0.00	0.42	0.00	(0.00,100.0)	8	0.00
Mount Sinai Hospital	157	1	0.64	0.88	0.86	(0.01, 4.78)	157	0.60
NYP-Brooklyn Methodist	4	0	0.00	0.96	0.00	(0.00,100.0)	4	0.00
NYP-Columbia Presby.	12	0	0.00	0.55	0.00	(0.00,65.37)	12	0.00
NYU Langone Hosp.-Brooklyn	85	0	0.00	1.76	0.00	(0.00, 2.91)	81	0.00
<b>Duvvuri S</b>	<b>273</b>	<b>2</b>	<b>0.73</b>	<b>0.79</b>	<b>1.09</b>	<b>(0.12, 3.95)</b>	<b>236</b>	<b>1.09</b>
Mount Sinai Hospital	12	0	0.00	0.66	0.00	(0.00,55.13)	12	0.00
Richmond Univ Med Cntr	104	0	0.00	0.85	0.00	(0.00, 4.91)	83	0.00
Staten Island Univ Hosp	157	2	1.27	0.77	1.97	(0.22, 7.11)	141	1.62
<b>Emerson R</b>	<b>200</b>	<b>5</b>	<b>2.50</b>	<b>1.51</b>	<b>1.96</b>	<b>(0.63, 4.56)</b>	<b>107</b>	<b>1.92</b>
Buffalo General Med Ctr	1	0	0.00	0.25	0.00	(0.00,100.0)	1	0.00
Mercy Hospital-Buffalo	199	5	2.51	1.52	1.96	(0.63, 4.57)	106	1.92
<b>Esper D</b>	<b>611</b>	<b>9</b>	<b>1.47</b>	<b>1.20</b>	<b>1.46</b>	<b>(0.66, 2.77)</b>	<b>480</b>	<b>1.39</b>
Albany Med. Ctr	289	3	1.04	0.98	1.25	(0.25, 3.66)	216	1.58
Samaritan Hospital	25	2	8.00	5.44	1.74	(0.20, 6.29)	2	0.00
St. Peters Hospital	297	4	1.35	1.05	1.52	(0.41, 3.88)	262	1.26
<b>Farhi E</b>	<b>775</b>	<b>11</b>	<b>1.42</b>	<b>0.98</b>	<b>1.71</b>	<b>(0.85, 3.06)</b>	<b>583</b>	<b>0.82</b>
Buffalo General Med Ctr	772	11	1.42	0.98	1.72	(0.86, 3.07)	582	0.83
Olean General Hosp.	3	0	0.00	1.32	0.00	(0.00,100.0)	1	0.00
<b>Farid A</b>	<b>185</b>	<b>0</b>	<b>0.00</b>	<b>0.27</b>	<b>0.00</b>	<b>(0.00, 8.65)</b>	<b>184</b>	<b>0.00</b>
NYU Hospitals Center	156	0	0.00	0.28	0.00	(0.00, 9.99)	155	0.00
Richmond Univ Med Cntr	2	0	0.00	0.17	0.00	(0.00,100.0)	2	0.00
Staten Island Univ Hosp	27	0	0.00	0.24	0.00	(0.00,67.75)	27	0.00
<b>Feit F</b>	<b>501</b>	<b>4</b>	<b>0.80</b>	<b>0.56</b>	<b>1.69</b>	<b>(0.45, 4.31)</b>	<b>486</b>	<b>1.33</b>
Bellevue Hospital Ctr	5	0	0.00	0.79	0.00	(0.00,100.0)	2	0.00
NYU Hospitals Center	496	4	0.81	0.56	1.71	(0.46, 4.38)	484	1.34
<b>Fernaine G</b>	<b>339</b>	<b>4</b>	<b>1.18</b>	<b>1.03</b>	<b>1.35</b>	<b>(0.36, 3.47)</b>	<b>290</b>	<b>1.10</b>
Lenox Hill Hospital	13	0	0.00	0.32	0.00	(0.00,100.0)	13	0.00
Mount Sinai Hospital	21	1	4.76	0.93	6.04	(0.08,33.60)	21	4.62
NYU Hospitals Center	16	1	6.25	0.43	17.25	(0.23,95.99)	16	10.91
NYU Langone Hosp.-Brooklyn	289	2	0.69	1.10	0.74	(0.08, 2.68)	240	0.61
<b>Franco J</b>	<b>211</b>	<b>0</b>	<b>0.00</b>	<b>1.19</b>	<b>0.00</b>	<b>(0.00, 1.73)</b>	<b>183</b>	<b>0.00</b>
Good Sam-West Islip	82	0	0.00	0.97	0.00	(0.00, 5.44)	76	0.00
Long Island Comm. Hosp.	20	0	0.00	0.45	0.00	(0.00,47.83)	16	0.00
NYU Winthrop Hospital	1	0	0.00	0.74	0.00	(0.00,100.0)	1	0.00
Southside Hospital	25	0	0.00	1.60	0.00	(0.00,10.84)	20	0.00
St. Catherine of Siena	83	0	0.00	1.47	0.00	(0.00, 3.57)	70	0.00
<b>Freeman J</b>	<b>604</b>	<b>9</b>	<b>1.49</b>	<b>1.17</b>	<b>1.51</b>	<b>(0.69, 2.86)</b>	<b>449</b>	<b>1.61</b>
Long Island Jewish MC	11	0	0.00	1.69	0.00	(0.00,23.38)	11	0.00
South Nassau Com. Hosp	593	9	1.52	1.16	1.55	(0.71, 2.94)	438	1.73
<b>Friedman G H</b>	<b>322</b>	<b>7</b>	<b>2.17</b>	<b>1.43</b>	<b>1.80</b>	<b>(0.72, 3.71)</b>	<b>284</b>	<b>1.26</b>
Long Island Jewish MC	6	0	0.00	0.29	0.00	(0.00,100.0)	6	0.00
North Shore Univ Hosp	17	1	5.88	0.41	17.07	(0.22,94.99)	17	12.47
St. Francis Hospital	299	6	2.01	1.51	1.57	(0.58, 3.43)	261	0.98
<b>Fuschetto D</b>	<b>123</b>	<b>1</b>	<b>0.81</b>	<b>1.09</b>	<b>0.88</b>	<b>(0.01, 4.91)</b>	<b>108</b>	<b>0.79</b>
Long Island Jewish MC	43	0	0.00	0.71	0.00	(0.00,14.17)	42	0.00
Maimonides Medical Ctr	2	0	0.00	0.56	0.00	(0.00,100.0)	2	0.00
NYU Langone Hosp.-Brooklyn	18	0	0.00	1.81	0.00	(0.00,13.36)	9	0.00
North Shore Univ Hosp	60	1	1.67	1.16	1.70	(0.02, 9.44)	55	1.39

Table 6, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Fuschetto O</b>	<b>35</b>	<b>0</b>	<b>0.00</b>	<b>1.14</b>	<b>0.00</b>	<b>(0.00,10.90)</b>	<b>26</b>	<b>0.00</b>
Long Island Jewish MC	8	0	0.00	0.78	0.00	(0.00,70.07)	8	0.00
Maimonides Medical Ctr	4	0	0.00	1.52	0.00	(0.00,71.48)	4	0.00
NYU Langone Hosp.-Brooklyn	18	0	0.00	1.09	0.00	(0.00,22.10)	11	0.00
North Shore Univ Hosp	3	0	0.00	0.71	0.00	(0.00,100.0)	3	0.00
Richmond Univ Med Cntr	2	0	0.00	2.89	0.00	(0.00,75.05)	.	.
<b>Gacioch G</b>	<b>389</b>	<b>8</b>	<b>2.06</b>	<b>1.57</b>	<b>1.55</b>	<b>(0.67, 3.05)</b>	<b>243</b>	<b>0.00</b>
Rochester General Hosp	386	7	1.81	1.51	1.42	(0.57, 2.92)	241	0.00
Unity Hospital	3	1	33.33	9.16	4.31	(0.06,23.99)	2	0.00
<b>Gala B</b>	<b>153</b>	<b>5</b>	<b>3.27</b>	<b>1.52</b>	<b>2.55</b>	<b>(0.82, 5.95)</b>	<b>121</b>	<b>2.46</b>
Maimonides Medical Ctr	5	0	0.00	2.64	0.00	(0.00,32.87)	5	0.00
Richmond Univ Med Cntr	86	2	2.33	1.71	1.61	(0.18, 5.82)	56	3.87
Staten Island Univ Hosp	62	3	4.84	1.17	4.92	(0.99,14.37)	60	2.52
<b>Galler B</b>	<b>294</b>	<b>5</b>	<b>1.70</b>	<b>1.25</b>	<b>1.61</b>	<b>(0.52, 3.77)</b>	<b>288</b>	<b>1.42</b>
NYU Winthrop Hospital	8	0	0.00	5.50	0.00	(0.00, 9.87)	5	0.00
North Shore Univ Hosp	279	5	1.79	1.14	1.86	(0.60, 4.33)	276	1.49
Southside Hospital	7	0	0.00	0.56	0.00	(0.00,100.0)	7	0.00
<b>Gambino A</b>	<b>809</b>	<b>6</b>	<b>0.74</b>	<b>1.05</b>	<b>0.83</b>	<b>(0.30, 1.82)</b>	<b>713</b>	<b>0.82</b>
Long Island Comm. Hosp.	40	0	0.00	0.54	0.00	(0.00,20.16)	36	0.00
NYU Winthrop Hospital	769	6	0.78	1.08	0.86	(0.31, 1.86)	677	0.85
<b>Gandotra P</b>	<b>628</b>	<b>6</b>	<b>0.96</b>	<b>0.94</b>	<b>1.20</b>	<b>(0.44, 2.61)</b>	<b>559</b>	<b>1.02</b>
Good Sam-West Islip	61	1	1.64	1.05	1.85	(0.02,10.32)	61	1.20
Southside Hospital	567	5	0.88	0.93	1.12	(0.36, 2.62)	498	0.99
<b>Garyali S</b>	<b>26</b>	<b>0</b>	<b>0.00</b>	<b>0.26</b>	<b>0.00</b>	<b>(0.00,65.53)</b>	<b>25</b>	<b>0.00</b>
Maimonides Medical Ctr	14	0	0.00	0.14	0.00	(0.00,100.0)	14	0.00
NYP-Brooklyn Methodist	9	0	0.00	0.37	0.00	(0.00,100.0)	8	0.00
Staten Island Univ Hosp	3	0	0.00	0.44	0.00	(0.00,100.0)	3	0.00
<b>Gelormini J</b>	<b>716</b>	<b>14</b>	<b>1.96</b>	<b>1.43</b>	<b>1.63</b>	<b>(0.89, 2.73)</b>	<b>546</b>	<b>0.87</b>
Buffalo General Med Ctr	15	0	0.00	0.38	0.00	(0.00,75.87)	15	0.00
Mercy Hospital-Buffalo	701	14	2.00	1.45	1.63	(0.89, 2.74)	531	0.88
<b>Gosselin R</b>	<b>119</b>	<b>1</b>	<b>0.84</b>	<b>1.55</b>	<b>0.64</b>	<b>(0.01, 3.56)</b>	<b>91</b>	<b>0.70</b>
St. Lukes Cornwall Hosp	97	1	1.03	1.71	0.71	(0.01, 3.96)	74	0.78
Vassar Bros. Med Ctr	22	0	0.00	0.84	0.00	(0.00,23.37)	17	0.00
<b>Gotsis W</b>	<b>635</b>	<b>9</b>	<b>1.42</b>	<b>1.04</b>	<b>1.62</b>	<b>(0.74, 3.08)</b>	<b>490</b>	<b>1.68</b>
Good Sam - Suffern	1	0	0.00	0.61	0.00	(0.00,100.0)	1	0.00
Mount Sinai St. Lukes	58	2	3.45	1.01	4.04	(0.45,14.57)	57	2.37
Orange Regional Med Ctr	529	7	1.32	0.99	1.59	(0.64, 3.27)	402	1.68
St. Lukes Cornwall Hosp	4	0	0.00	1.03	0.00	(0.00,100.0)	4	0.00
Westchester Med Ctr	43	0	0.00	1.68	0.00	(0.00, 6.01)	26	0.00
<b>Gowda R</b>	<b>778</b>	<b>7</b>	<b>0.90</b>	<b>1.46</b>	<b>0.73</b>	<b>(0.29, 1.50)</b>	<b>677</b>	<b>0.46</b>
Mount Sinai Beth Israel	724	6	0.83	1.39	0.70	(0.26, 1.53)	637	0.48
Mount Sinai Hospital	4	0	0.00	0.23	0.00	(0.00,100.0)	4	0.00
Mount Sinai St. Lukes	50	1	2.00	2.55	0.93	(0.01, 5.17)	36	0.00
<b>Green P</b>	<b>212</b>	<b>1</b>	<b>0.47</b>	<b>1.34</b>	<b>0.42</b>	<b>(0.01, 2.33)</b>	<b>182</b>	<b>0.43</b>
NYP-Columbia Presby.	205	1	0.49	1.24	0.46	(0.01, 2.59)	179	0.45
NYP-Lawrence Hosp	7	0	0.00	4.05	0.00	(0.00,15.34)	3	0.00
<b>Greenberg M</b>	<b>644</b>	<b>5</b>	<b>0.78</b>	<b>0.79</b>	<b>1.16</b>	<b>(0.38, 2.72)</b>	<b>549</b>	<b>0.72</b>
Montefiore - Moses	389	3	0.77	0.71	1.28	(0.26, 3.75)	359	0.77
Montefiore - Weiler	1	0	0.00	0.14	0.00	(0.00,100.0)	1	0.00
St. Barnabas Hospital	8	0	0.00	1.43	0.00	(0.00,37.99)	1	0.00
White Plains Hospital	246	2	0.81	0.90	1.08	(0.12, 3.88)	188	0.64

Table 6, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Grunwald A</b>	<b>334</b>	<b>6</b>	<b>1.80</b>	<b>0.80</b>	<b>2.64</b>	<b>(0.97, 5.76)</b>	<b>275</b>	<b>2.49</b>
Long Island Jewish MC	97	2	2.06	0.62	3.96	(0.44,14.30)	93	3.42
NYP-Queens	72	0	0.00	0.96	0.00	(0.00, 6.30)	46	0.00
North Shore Univ Hosp	72	2	2.78	0.72	4.58	(0.51,16.53)	68	2.43
St. Francis Hospital	93	2	2.15	0.95	2.68	(0.30, 9.69)	68	3.17
<b>Gujja K</b>	<b>106</b>	<b>2</b>	<b>1.89</b>	<b>0.57</b>	<b>3.89</b>	<b>(0.44,14.06)</b>	<b>106</b>	<b>2.23</b>
Lenox Hill Hospital	4	0	0.00	0.18	0.00	(0.00,100.0)	4	0.00
Mount Sinai Hospital	102	2	1.96	0.59	3.94	(0.44,14.23)	102	2.27
<b>Gupta R</b>	<b>114</b>	<b>0</b>	<b>0.00</b>	<b>1.01</b>	<b>0.00</b>	<b>(0.00, 3.79)</b>	<b>110</b>	<b>0.00</b>
Long Island Jewish MC	63	0	0.00	0.92	0.00	(0.00, 7.49)	60	0.00
NYP-Queens	51	0	0.00	1.11	0.00	(0.00, 7.67)	50	0.00
<b>Hadid A</b>	<b>297</b>	<b>6</b>	<b>2.02</b>	<b>1.56</b>	<b>1.53</b>	<b>(0.56, 3.33)</b>	<b>221</b>	<b>0.86</b>
St. Lukes Cornwall Hosp	286	6	2.10	1.61	1.55	(0.56, 3.37)	210	0.89
Westchester Med Ctr	11	0	0.00	0.42	0.00	(0.00,93.15)	11	0.00
<b>Hadid A B</b>	<b>127</b>	<b>2</b>	<b>1.57</b>	<b>1.51</b>	<b>1.24</b>	<b>(0.14, 4.47)</b>	<b>71</b>	<b>0.00</b>
St. Lukes Cornwall Hosp	125	2	1.60	1.53	1.24	(0.14, 4.49)	69	0.00
Westchester Med Ctr	2	0	0.00	0.24	0.00	(0.00,100.0)	2	0.00
<b>Hameedi A</b>	<b>959</b>	<b>0</b>	<b>0.00</b>	<b>0.31</b>	<b>0.00</b>	<b>(0.00, 1.48)</b>	<b>955</b>	<b>0.00</b>
Long Island Jewish MC	380	0	0.00	0.41	0.00	(0.00, 2.79)	377	0.00
Mount Sinai Hospital	224	0	0.00	0.23	0.00	(0.00, 8.44)	224	0.00
NYP-Queens	350	0	0.00	0.25	0.00	(0.00, 5.05)	349	0.00
North Shore Univ Hosp	5	0	0.00	0.24	0.00	(0.00,100.0)	5	0.00
<b>Hegde S</b>	<b>177</b>	<b>2</b>	<b>1.13</b>	<b>1.71</b>	<b>0.78</b>	<b>(0.09, 2.83)</b>	<b>139</b>	<b>0.00</b>
Bellevue Hospital Ctr	116	0	0.00	1.12	0.00	(0.00, 3.35)	116	0.00
Univ. Hosp-Brooklyn	61	2	3.28	2.83	1.37	(0.15, 4.95)	23	0.00
<b>Hjemdahl-Monsen C</b>	<b>373</b>	<b>2</b>	<b>0.54</b>	<b>0.81</b>	<b>0.79</b>	<b>(0.09, 2.84)</b>	<b>349</b>	<b>0.30</b>
NYP-Columbia Presby.	178	1	0.56	0.97	0.69	(0.01, 3.83)	174	0.51
NYP-Lawrence Hosp	133	1	0.75	0.62	1.44	(0.02, 8.03)	118	0.00
White Plains Hospital	62	0	0.00	0.76	0.00	(0.00, 9.18)	57	0.00
<b>Hormozi S</b>	<b>1086</b>	<b>9</b>	<b>0.83</b>	<b>0.86</b>	<b>1.15</b>	<b>(0.52, 2.17)</b>	<b>955</b>	<b>0.82</b>
Good Sam-West Islip	564	3	0.53	0.76	0.83	(0.17, 2.42)	515	0.55
NYU Winthrop Hospital	2	0	0.00	0.23	0.00	(0.00,100.0)	2	0.00
North Shore Univ Hosp	5	0	0.00	2.77	0.00	(0.00,31.41)	5	0.00
South Nassau Com. Hosp	14	1	7.14	2.58	3.28	(0.04,18.28)	2	0.00
Southside Hospital	296	3	1.01	0.92	1.30	(0.26, 3.81)	256	1.75
St. Catherine of Siena	201	2	1.00	0.89	1.33	(0.15, 4.81)	171	0.58
St. Francis Hospital	4	0	0.00	0.35	0.00	(0.00,100.0)	4	0.00
<b>Hoyek W</b>	<b>305</b>	<b>2</b>	<b>0.66</b>	<b>1.19</b>	<b>0.65</b>	<b>(0.07, 2.35)</b>	<b>230</b>	<b>0.70</b>
NYP-Brooklyn Methodist	59	0	0.00	0.22	0.00	(0.00,32.97)	59	0.00
NYU Langone Hosp.-Brooklyn	77	1	1.30	2.50	0.61	(0.01, 3.42)	49	0.00
Staten Island Univ Hosp	169	1	0.59	0.94	0.75	(0.01, 4.16)	122	2.00
<b>Husain S I</b>	<b>47</b>	<b>0</b>	<b>0.00</b>	<b>0.60</b>	<b>0.00</b>	<b>(0.00,15.43)</b>	<b>46</b>	<b>0.00</b>
Long Island Jewish MC	31	0	0.00	0.53	0.00	(0.00,26.69)	31	0.00
North Shore Univ Hosp	16	0	0.00	0.74	0.00	(0.00,36.58)	15	0.00
<b>Iqbal S</b>	<b>306</b>	<b>2</b>	<b>0.65</b>	<b>1.31</b>	<b>0.59</b>	<b>(0.07, 2.13)</b>	<b>243</b>	<b>0.00</b>
Bellevue Hospital Ctr	287	1	0.35	1.30	0.32	(0.00, 1.77)	232	0.00
NYU Hospitals Center	19	1	5.26	1.49	4.18	(0.05,23.25)	11	0.00
<b>Irobunda C</b>	<b>158</b>	<b>0</b>	<b>0.00</b>	<b>1.40</b>	<b>0.00</b>	<b>(0.00, 1.96)</b>	<b>137</b>	<b>0.00</b>
NYP-Columbia Presby.	151	0	0.00	1.29	0.00	(0.00, 2.23)	135	0.00
NYP-Lawrence Hosp	3	0	0.00	8.27	0.00	(0.00,17.52)	.	.
White Plains Hospital	4	0	0.00	0.41	0.00	(0.00,100.0)	2	0.00

Table 6, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Iyer V</b>	<b>556</b>	<b>9</b>	<b>1.62</b>	<b>1.32</b>	<b>1.46</b>	<b>(0.66, 2.76)</b>	<b>385</b>	<b>0.58</b>
Buffalo General Med Ctr	553	9	1.63	1.32	1.46	(0.67, 2.77)	382	0.59
Olean General Hosp.	3	0	0.00	0.31	0.00	(0.00,100.0)	3	0.00
<b>Jafar M</b>	<b>932</b>	<b>14</b>	<b>1.50</b>	<b>1.38</b>	<b>1.29</b>	<b>(0.70, 2.16)</b>	<b>712</b>	<b>0.61</b>
St. Lukes Cornwall Hosp	3	0	0.00	0.61	0.00	(0.00,100.0)	3	0.00
Vassar Bros. Med Ctr	929	14	1.51	1.38	1.29	(0.70, 2.16)	709	0.61
<b>Jain S</b>	<b>467</b>	<b>6</b>	<b>1.28</b>	<b>1.35</b>	<b>1.13</b>	<b>(0.41, 2.45)</b>	<b>334</b>	<b>0.78</b>
Jamaica Hosp Med Ctr	237	4	1.69	2.06	0.97	(0.26, 2.48)	107	1.09
Lenox Hill Hospital	230	2	0.87	0.62	1.67	(0.19, 6.04)	227	0.60
<b>Jauhar R</b>	<b>1302</b>	<b>8</b>	<b>0.61</b>	<b>1.08</b>	<b>0.67</b>	<b>(0.29, 1.33)</b>	<b>1108</b>	<b>0.64</b>
Long Island Jewish MC	530	3	0.57	1.15	0.58	(0.12, 1.71)	458	0.52
North Shore Univ Hosp	772	5	0.65	1.03	0.74	(0.24, 1.73)	650	0.72
<b>Jayasundera T</b>	<b>262</b>	<b>0</b>	<b>0.00</b>	<b>0.28</b>	<b>0.00</b>	<b>(0.00, 5.93)</b>	<b>261</b>	<b>0.00</b>
Mount Sinai Hospital	8	0	0.00	0.37	0.00	(0.00,100.0)	8	0.00
NYU Hospitals Center	254	0	0.00	0.28	0.00	(0.00, 6.18)	253	0.00
<b>Johnson M</b>	<b>469</b>	<b>5</b>	<b>1.07</b>	<b>1.18</b>	<b>1.07</b>	<b>(0.34, 2.50)</b>	<b>399</b>	<b>1.11</b>
BronxCare Health System	8	0	0.00	3.46	0.00	(0.00,15.68)	2	0.00
Montefiore - Moses	432	5	1.16	1.08	1.27	(0.41, 2.97)	387	1.13
St. Barnabas Hospital	9	0	0.00	2.93	0.00	(0.00,16.48)	1	0.00
White Plains Hospital	20	0	0.00	1.71	0.00	(0.00,12.71)	9	0.00
<b>Joseph S</b>	<b>86</b>	<b>1</b>	<b>1.16</b>	<b>0.87</b>	<b>1.58</b>	<b>(0.02, 8.79)</b>	<b>84</b>	<b>1.03</b>
Long Island Comm. Hosp.	34	0	0.00	0.74	0.00	(0.00,17.35)	33	0.00
Long Island Jewish MC	1	0	0.00	0.41	0.00	(0.00,100.0)	1	0.00
North Shore Univ Hosp	8	0	0.00	0.26	0.00	(0.00,100.0)	8	0.00
Univ. Hosp-Stony Brook	43	1	2.33	1.10	2.50	(0.03,13.89)	42	1.65
<b>Kalapatapu K</b>	<b>690</b>	<b>4</b>	<b>0.58</b>	<b>0.95</b>	<b>0.72</b>	<b>(0.19, 1.84)</b>	<b>659</b>	<b>0.38</b>
NYP-Columbia Presby.	189	1	0.53	0.92	0.68	(0.01, 3.81)	179	0.00
NYP-Lawrence Hosp	141	1	0.71	0.96	0.88	(0.01, 4.87)	134	0.62
Orange Regional Med Ctr	248	1	0.40	1.11	0.43	(0.01, 2.40)	240	0.28
White Plains Hospital	112	1	0.89	0.68	1.56	(0.02, 8.67)	106	1.17
<b>Kandov R</b>	<b>562</b>	<b>4</b>	<b>0.71</b>	<b>0.85</b>	<b>0.99</b>	<b>(0.27, 2.54)</b>	<b>460</b>	<b>0.30</b>
NYU Langone Hosp.-Brooklyn	42	1	2.38	1.82	1.55	(0.02, 8.64)	20	0.00
Staten Island Univ Hosp	520	3	0.58	0.77	0.89	(0.18, 2.59)	440	0.32
<b>Kantrowitz N</b>	<b>24</b>	<b>0</b>	<b>0.00</b>	<b>0.40</b>	<b>0.00</b>	<b>(0.00,44.89)</b>	<b>23</b>	<b>0.00</b>
Maimonides Medical Ctr	8	0	0.00	0.55	0.00	(0.00,97.91)	7	0.00
NYP-Brooklyn Methodist	16	0	0.00	0.33	0.00	(0.00,82.88)	16	0.00
<b>Kaplan B</b>	<b>1702</b>	<b>7</b>	<b>0.41</b>	<b>0.94</b>	<b>0.52 **</b>	<b>(0.21, 1.07)</b>	<b>1534</b>	<b>0.30 **</b>
Long Island Jewish MC	28	0	0.00	0.88	0.00	(0.00,17.67)	16	0.00
North Shore Univ Hosp	1674	7	0.42	0.94	0.53 **	(0.21, 1.09)	1518	0.30
<b>Katz S</b>	<b>202</b>	<b>3</b>	<b>1.49</b>	<b>1.44</b>	<b>1.22</b>	<b>(0.25, 3.57)</b>	<b>163</b>	<b>1.08</b>
Long Island Jewish MC	9	1	11.11	6.38	2.06	(0.03,11.48)	1	0.00
North Shore Univ Hosp	193	2	1.04	1.21	1.01	(0.11, 3.66)	162	1.08
<b>Kelberman M</b>	<b>163</b>	<b>5</b>	<b>3.07</b>	<b>1.76</b>	<b>2.06</b>	<b>(0.67, 4.82)</b>	<b>128</b>	<b>1.35</b>
Faxton - St. Lukes	9	0	0.00	1.67	0.00	(0.00,28.85)	4	0.00
St. Elizabeth Med Ctr	154	5	3.25	1.76	2.18	(0.70, 5.09)	124	1.37
<b>Kesanakurthy S</b>	<b>698</b>	<b>6</b>	<b>0.86</b>	<b>0.65</b>	<b>1.56</b>	<b>(0.57, 3.39)</b>	<b>674</b>	<b>1.10</b>
Lenox Hill Hospital	17	0	0.00	0.72	0.00	(0.00,35.43)	17	0.00
Mount Sinai Hospital	573	5	0.87	0.69	1.50	(0.48, 3.49)	550	1.08
NYP-Brooklyn Methodist	12	0	0.00	0.19	0.00	(0.00,100.0)	12	0.00
NYP-Weill Cornell	96	1	1.04	0.48	2.55	(0.03,14.18)	95	1.61



Table 6, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Khan S</b>	<b>180</b>	<b>3</b>	<b>1.67</b>	<b>0.81</b>	<b>2.45</b>	<b>(0.49, 7.16)</b>	<b>162</b>	<b>0.00</b>
St. Catherine of Siena	86	3	3.49	0.83	4.96	(1.00,14.48)	71	0.00
St. Francis Hospital	5	0	0.00	0.80	0.00	(0.00,100.0)	5	0.00
Univ. Hosp-Stony Brook	89	0	0.00	0.78	0.00	(0.00, 6.27)	86	0.00
<b>Khan W</b>	<b>575</b>	<b>11</b>	<b>1.91</b>	<b>1.01</b>	<b>2.24</b>	<b>(1.12, 4.01)</b>	<b>468</b>	<b>1.79</b>
Long Island Comm. Hosp.	527	11	2.09	0.95	2.61 *	(1.30, 4.67)	420	2.39 *
NYU Winthrop Hospital	48	0	0.00	1.70	0.00	(0.00, 5.33)	48	0.00
<b>Kim M</b>	<b>933</b>	<b>6</b>	<b>0.64</b>	<b>0.98</b>	<b>0.78</b>	<b>(0.28, 1.69)</b>	<b>806</b>	<b>0.62</b>
Lenox Hill Hospital	730	5	0.68	0.95	0.86	(0.28, 2.00)	659	0.73
Long Island Jewish MC	15	1	6.67	1.95	4.06	(0.05,22.57)	4	0.00
North Shore Univ Hosp	188	0	0.00	1.03	0.00	(0.00, 2.23)	143	0.00
<b>Korlipara G</b>	<b>230</b>	<b>2</b>	<b>0.87</b>	<b>0.66</b>	<b>1.56</b>	<b>(0.18, 5.64)</b>	<b>218</b>	<b>1.06</b>
Southside Hospital	1	0	0.00	0.28	0.00	(0.00,100.0)	1	0.00
Univ. Hosp-Stony Brook	229	2	0.87	0.66	1.56	(0.18, 5.65)	217	1.07
<b>Koss J</b>	<b>415</b>	<b>5</b>	<b>1.20</b>	<b>0.91</b>	<b>1.57</b>	<b>(0.51, 3.67)</b>	<b>352</b>	<b>1.07</b>
Long Island Jewish MC	182	2	1.10	0.58	2.26	(0.25, 8.16)	171	1.92
NYP-Queens	46	2	4.35	1.39	3.71	(0.42,13.40)	13	0.00
North Shore Univ Hosp	164	1	0.61	1.13	0.64	(0.01, 3.56)	151	0.62
St. Francis Hospital	23	0	0.00	0.99	0.00	(0.00,19.07)	17	0.00
<b>Kozman H</b>	<b>245</b>	<b>11</b>	<b>4.49</b>	<b>1.55</b>	<b>3.43 *</b>	<b>(1.71, 6.15)</b>	<b>152</b>	<b>3.02 *</b>
Faxton - St. Lukes	5	1	20.00	2.17	10.90	(0.14,60.63)	2	0.00
St. Elizabeth Med Ctr	4	0	0.00	0.73	0.00	(0.00,100.0)	3	0.00
Univ. Hosp-Upstate	236	10	4.24	1.55	3.24 *	(1.55, 5.96)	147	3.11 *
<b>Kreps E</b>	<b>58</b>	<b>3</b>	<b>5.17</b>	<b>3.16</b>	<b>1.94</b>	<b>(0.39, 5.67)</b>	<b>29</b>	<b>0.00</b>
Bassett Medical Center	17	2	11.76	4.27	3.26	(0.37,11.78)	8	0.00
Cayuga Med Ctr Ithaca	41	1	2.44	2.70	1.07	(0.01, 5.96)	21	0.00
<b>Krim N</b>	<b>334</b>	<b>5</b>	<b>1.50</b>	<b>1.91</b>	<b>0.93</b>	<b>(0.30, 2.16)</b>	<b>206</b>	<b>0.59</b>
BronxCare Health System	292	4	1.37	2.05	0.79	(0.21, 2.02)	166	0.00
Montefiore - Moses	22	0	0.00	0.86	0.00	(0.00,22.93)	20	0.00
Mount Sinai St. Lukes	20	1	5.00	1.03	5.73	(0.07,31.87)	20	3.58
<b>Krishnamoorthy V</b>	<b>601</b>	<b>10</b>	<b>1.66</b>	<b>1.36</b>	<b>1.45</b>	<b>(0.69, 2.66)</b>	<b>388</b>	<b>0.99</b>
Rochester General Hosp	381	9	2.36	1.39	2.02	(0.92, 3.83)	250	1.41
Strong Memorial Hosp	220	1	0.45	1.32	0.41	(0.01, 2.27)	138	0.00
<b>Kudagi V</b>	<b>270</b>	<b>2</b>	<b>0.74</b>	<b>1.11</b>	<b>0.79</b>	<b>(0.09, 2.86)</b>	<b>240</b>	<b>0.00</b>
Faxton - St. Lukes	110	1	0.91	1.46	0.74	(0.01, 4.11)	103	0.00
St. Elizabeth Med Ctr	160	1	0.63	0.87	0.85	(0.01, 4.73)	137	0.00
<b>Kumar P</b>	<b>75</b>	<b>2</b>	<b>2.67</b>	<b>1.57</b>	<b>2.01</b>	<b>(0.23, 7.24)</b>	<b>60</b>	<b>0.00</b>
Faxton - St. Lukes	26	2	7.69	2.55	3.57	(0.40,12.90)	21	0.00
St. Elizabeth Med Ctr	49	0	0.00	1.06	0.00	(0.00, 8.39)	39	0.00
<b>Kwan T</b>	<b>520</b>	<b>1</b>	<b>0.19</b>	<b>0.45</b>	<b>0.51</b>	<b>(0.01, 2.83)</b>	<b>517</b>	<b>0.38</b>
Mount Sinai Beth Israel	500	1	0.20	0.45	0.52	(0.01, 2.92)	497	0.39
NYP-Brooklyn Methodist	20	0	0.00	0.37	0.00	(0.00,58.53)	20	0.00
<b>Lasic Z</b>	<b>464</b>	<b>3</b>	<b>0.65</b>	<b>1.22</b>	<b>0.63</b>	<b>(0.13, 1.83)</b>	<b>317</b>	<b>0.38</b>
Jamaica Hosp Med Ctr	251	3	1.20	1.80	0.79	(0.16, 2.29)	109	0.94
Lenox Hill Hospital	213	0	0.00	0.54	0.00	(0.00, 3.77)	208	0.00
<b>Lederman S</b>	<b>252</b>	<b>0</b>	<b>0.00</b>	<b>1.27</b>	<b>0.00</b>	<b>(0.00, 1.36)</b>	<b>236</b>	<b>0.00</b>
Southside Hospital	6	0	0.00	1.78	0.00	(0.00,40.73)	6	0.00
Univ. Hosp-Stony Brook	246	0	0.00	1.25	0.00	(0.00, 1.41)	230	0.00
<b>Lee A</b>	<b>654</b>	<b>6</b>	<b>0.92</b>	<b>1.40</b>	<b>0.78</b>	<b>(0.28, 1.69)</b>	<b>520</b>	<b>0.70</b>
Long Island Jewish MC	592	6	1.01	1.12	1.07	(0.39, 2.33)	490	0.80
North Shore Univ Hosp	62	0	0.00	4.07	0.00	(0.00, 1.72)	30	0.00

Table 6, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Lee P C</b>	<b>69</b>	<b>0</b>	<b>0.00</b>	<b>2.16</b>	<b>0.00</b>	<b>(0.00, 2.92)</b>	<b>48</b>	<b>0.00</b>
Maimonides Medical Ctr	8	0	0.00	0.20	0.00	(0.00,100.0)	8	0.00
Mount Sinai Hospital	4	0	0.00	0.38	0.00	(0.00,100.0)	4	0.00
NYU Langone Hosp.-Brooklyn	57	0	0.00	2.56	0.00	(0.00, 2.98)	36	0.00
<b>Lee P J</b>	<b>863</b>	<b>9</b>	<b>1.04</b>	<b>0.63</b>	<b>1.95</b>	<b>(0.89, 3.70)</b>	<b>800</b>	<b>1.56</b>
Good Sam-West Islip	606	4	0.66	0.58	1.36	(0.37, 3.47)	566	1.31
Southside Hospital	257	5	1.95	0.77	3.00	(0.97, 7.00)	234	1.94
<b>Limaye A</b>	<b>228</b>	<b>5</b>	<b>2.19</b>	<b>2.03</b>	<b>1.28</b>	<b>(0.41, 2.99)</b>	<b>196</b>	<b>0.51</b>
BronxCare Health System	13	0	0.00	0.57	0.00	(0.00,58.79)	8	0.00
Mount Sinai Hospital	215	5	2.33	2.11	1.30	(0.42, 3.04)	188	0.52
<b>Liou M</b>	<b>364</b>	<b>0</b>	<b>0.00</b>	<b>0.44</b>	<b>0.00</b>	<b>(0.00, 2.72)</b>	<b>360</b>	<b>0.00</b>
Mount Sinai Beth Israel	357	0	0.00	0.44	0.00	(0.00, 2.75)	353	0.00
NYU Hospitals Center	7	0	0.00	0.20	0.00	(0.00,100.0)	7	0.00
<b>MacIsaac H</b>	<b>542</b>	<b>17</b>	<b>3.14</b>	<b>1.97</b>	<b>1.89</b>	<b>(1.10, 3.02)</b>	<b>443</b>	<b>1.28</b>
Faxton - St. Lukes	30	2	6.67	3.13	2.52	(0.28, 9.11)	20	1.73
St. Elizabeth Med Ctr	512	15	2.93	1.90	1.83	(1.02, 3.01)	423	1.24
<b>Malpeso J</b>	<b>190</b>	<b>3</b>	<b>1.58</b>	<b>1.03</b>	<b>1.81</b>	<b>(0.36, 5.29)</b>	<b>131</b>	<b>2.24</b>
Bassett Medical Center	1	0	0.00	1.05	0.00	(0.00,100.0)	.	.
Olean General Hosp.	11	0	0.00	0.55	0.00	(0.00,71.68)	6	0.00
Staten Island Univ Hosp	178	3	1.69	1.06	1.88	(0.38, 5.49)	125	2.28
<b>Mangla A</b>	<b>360</b>	<b>4</b>	<b>1.11</b>	<b>0.85</b>	<b>1.54</b>	<b>(0.42, 3.95)</b>	<b>269</b>	<b>1.36</b>
Jamaica Hosp Med Ctr	188	2	1.06	1.09	1.16	(0.13, 4.19)	100	1.13
Lenox Hill Hospital	172	2	1.16	0.60	2.30	(0.26, 8.32)	169	1.51
<b>Marchant D</b>	<b>128</b>	<b>1</b>	<b>0.78</b>	<b>1.18</b>	<b>0.78</b>	<b>(0.01, 4.36)</b>	<b>81</b>	<b>1.16</b>
Long Island Jewish MC	15	0	0.00	1.99	0.00	(0.00,14.53)	1	0.00
North Shore Univ Hosp	113	1	0.88	1.07	0.98	(0.01, 5.44)	80	1.16
<b>Maroney J</b>	<b>397</b>	<b>7</b>	<b>1.76</b>	<b>1.32</b>	<b>1.58</b>	<b>(0.63, 3.26)</b>	<b>299</b>	<b>0.34</b>
Albany Med. Ctr	272	7	2.57	1.44	2.11	(0.85, 4.36)	204	0.51
Samaritan Hospital	35	0	0.00	1.94	0.00	(0.00, 6.40)	15	0.00
St. Peters Hospital	90	0	0.00	0.71	0.00	(0.00, 6.80)	80	0.00
<b>Martinelli M</b>	<b>653</b>	<b>5</b>	<b>0.77</b>	<b>0.94</b>	<b>0.97</b>	<b>(0.31, 2.26)</b>	<b>524</b>	<b>0.87</b>
Samaritan Hospital	14	0	0.00	1.57	0.00	(0.00,19.80)	4	0.00
St. Peters Hospital	639	5	0.78	0.92	1.01	(0.32, 2.35)	520	0.87
<b>Masud ARZ</b>	<b>442</b>	<b>8</b>	<b>1.81</b>	<b>1.08</b>	<b>1.99</b>	<b>(0.86, 3.93)</b>	<b>381</b>	<b>1.03</b>
Buffalo General Med Ctr	7	0	0.00	0.25	0.00	(0.00,100.0)	7	0.00
Mercy Hospital-Buffalo	435	8	1.84	1.09	2.00	(0.86, 3.94)	374	1.03
<b>Mathew T C</b>	<b>190</b>	<b>3</b>	<b>1.58</b>	<b>1.26</b>	<b>1.49</b>	<b>(0.30, 4.35)</b>	<b>137</b>	<b>1.53</b>
Faxton - St. Lukes	62	2	3.23	0.86	4.44	(0.50,16.04)	56	3.68
St. Elizabeth Med Ctr	128	1	0.78	1.45	0.64	(0.01, 3.55)	81	0.00
<b>Menegus M</b>	<b>494</b>	<b>1</b>	<b>0.20</b>	<b>1.00</b>	<b>0.24</b>	<b>(0.00, 1.33)</b>	<b>385</b>	<b>0.29</b>
Montefiore - Moses	4	0	0.00	0.42	0.00	(0.00,100.0)	3	0.00
Montefiore - Weiler	489	1	0.20	1.01	0.24	(0.00, 1.33)	381	0.30
St. Barnabas Hospital	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
<b>Meraj P</b>	<b>1058</b>	<b>14</b>	<b>1.32</b>	<b>1.53</b>	<b>1.03</b>	<b>(0.56, 1.72)</b>	<b>854</b>	<b>0.83</b>
Long Island Jewish MC	396	3	0.76	1.36	0.66	(0.13, 1.93)	322	0.63
North Shore Univ Hosp	662	11	1.66	1.63	1.21	(0.60, 2.16)	532	0.94
<b>Messinger D</b>	<b>195</b>	<b>2</b>	<b>1.03</b>	<b>1.24</b>	<b>0.98</b>	<b>(0.11, 3.53)</b>	<b>177</b>	<b>0.77</b>
Montefiore - Weiler	21	0	0.00	2.29	0.00	(0.00, 9.02)	21	0.00
NYP-Weill Cornell	49	0	0.00	1.26	0.00	(0.00, 7.03)	48	0.00
Westchester Med Ctr	19	1	5.26	0.76	8.17	(0.11,45.44)	18	6.52
White Plains Hospital	106	1	0.94	1.11	1.00	(0.01, 5.58)	90	0.91

Table 6, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Monrad E</b>	<b>309</b>	<b>3</b>	<b>0.97</b>	<b>1.22</b>	<b>0.94</b>	<b>(0.19, 2.75)</b>	<b>237</b>	<b>0.35</b>
Montefiore - Moses	1	0	0.00	0.08	0.00	(0.00,100.0)	1	0.00
Montefiore - Weiler	307	2	0.65	1.22	0.63	(0.07, 2.28)	235	0.00
St. Barnabas Hospital	1	1	100.00	2.48	47.69	(0.62,100.0)	1	23.53
<b>Moreno P</b>	<b>725</b>	<b>1</b>	<b>0.14</b>	<b>0.78</b>	<b>0.21**</b>	<b>(0.00, 1.16)</b>	<b>707</b>	<b>0.00**</b>
Mount Sinai Hospital	433	1	0.23	0.75	0.36	(0.00, 2.03)	423	0.00
Mount Sinai St. Lukes	292	0	0.00	0.82	0.00	(0.00, 1.80)	284	0.00
<b>Morris W</b>	<b>797</b>	<b>13</b>	<b>1.63</b>	<b>1.08</b>	<b>1.78</b>	<b>(0.95, 3.05)</b>	<b>652</b>	<b>1.27</b>
Buffalo General Med Ctr	769	13	1.69	1.08	1.85	(0.98, 3.16)	626	1.31
Mercy Hospital-Buffalo	22	0	0.00	0.52	0.00	(0.00,37.90)	22	0.00
Olean General Hosp.	6	0	0.00	3.17	0.00	(0.00,22.88)	4	0.00
<b>Moses J</b>	<b>1339</b>	<b>8</b>	<b>0.60</b>	<b>0.88</b>	<b>0.81</b>	<b>(0.35, 1.59)</b>	<b>1335</b>	<b>0.59</b>
NYP-Columbia Presby.	975	5	0.51	0.70	0.86	(0.28, 2.01)	972	0.65
St. Francis Hospital	364	3	0.82	1.34	0.73	(0.15, 2.13)	363	0.51
<b>Motivala A</b>	<b>287</b>	<b>1</b>	<b>0.35</b>	<b>1.31</b>	<b>0.32</b>	<b>(0.00, 1.76)</b>	<b>188</b>	<b>0.54</b>
NYP-Columbia Presby.	29	0	0.00	0.67	0.00	(0.00,22.25)	29	0.00
Orange Regional Med Ctr	258	1	0.39	1.38	0.33	(0.00, 1.85)	159	0.63
<b>Naidu S</b>	<b>185</b>	<b>1</b>	<b>0.54</b>	<b>1.10</b>	<b>0.58</b>	<b>(0.01, 3.24)</b>	<b>155</b>	<b>0.00</b>
NYU Winthrop Hospital	179	1	0.56	1.12	0.59	(0.01, 3.29)	149	0.00
Westchester Med Ctr	6	0	0.00	0.54	0.00	(0.00,100.0)	6	0.00
<b>Nazif T</b>	<b>197</b>	<b>0</b>	<b>0.00</b>	<b>1.65</b>	<b>0.00</b>	<b>(0.00, 1.33)</b>	<b>175</b>	<b>0.00</b>
NYP-Columbia Presby.	194	0	0.00	1.66	0.00	(0.00, 1.35)	173	0.00
NYP-Lawrence Hosp	3	0	0.00	1.09	0.00	(0.00,100.0)	2	0.00
<b>Ong L S</b>	<b>1669</b>	<b>14</b>	<b>0.84</b>	<b>0.98</b>	<b>1.02</b>	<b>(0.56, 1.71)</b>	<b>1438</b>	<b>0.80</b>
Cayuga Med Ctr Ithaca	1	0	0.00	1.54	0.00	(0.00,100.0)	.	.
Rochester General Hosp	1630	14	0.86	0.95	1.07	(0.58, 1.79)	1424	0.82
Unity Hospital	38	0	0.00	1.86	0.00	(0.00, 6.15)	14	0.00
<b>Ong L Y</b>	<b>217</b>	<b>0</b>	<b>0.00</b>	<b>0.70</b>	<b>0.00</b>	<b>(0.00, 2.85)</b>	<b>195</b>	<b>0.00</b>
Huntington Hospital	151	0	0.00	0.55	0.00	(0.00, 5.20)	131	0.00
North Shore Univ Hosp	58	0	0.00	0.91	0.00	(0.00, 8.20)	57	0.00
Southside Hospital	8	0	0.00	2.02	0.00	(0.00,26.92)	7	0.00
<b>Papadakos S</b>	<b>457</b>	<b>2</b>	<b>0.44</b>	<b>1.20</b>	<b>0.43</b>	<b>(0.05, 1.56)</b>	<b>381</b>	<b>0.29</b>
NYP-Queens	146	2	1.37	2.31	0.70	(0.08, 2.54)	72	0.60
NYU Hospitals Center	307	0	0.00	0.66	0.00	(0.00, 2.15)	305	0.00
North Shore Univ Hosp	4	0	0.00	2.52	0.00	(0.00,43.13)	4	0.00
<b>Papaleo R</b>	<b>431</b>	<b>4</b>	<b>0.93</b>	<b>0.87</b>	<b>1.26</b>	<b>(0.34, 3.23)</b>	<b>298</b>	<b>0.84</b>
Albany Med. Ctr	28	1	3.57	2.68	1.58	(0.02, 8.79)	6	0.00
Glens Falls Hospital	16	0	0.00	1.87	0.00	(0.00,14.51)	1	0.00
Samaritan Hospital	379	3	0.79	0.68	1.39	(0.28, 4.05)	291	0.86
St. Peters Hospital	8	0	0.00	1.83	0.00	(0.00,29.71)	.	.
<b>Patcha R</b>	<b>270</b>	<b>3</b>	<b>1.11</b>	<b>1.04</b>	<b>1.27</b>	<b>(0.26, 3.71)</b>	<b>220</b>	<b>0.64</b>
Huntington Hospital	230	2	0.87	1.03	1.00	(0.11, 3.62)	180	0.00
North Shore Univ Hosp	30	1	3.33	1.21	3.26	(0.04,18.14)	30	2.27
St. Francis Hospital	10	0	0.00	0.76	0.00	(0.00,57.24)	10	0.00
<b>Patel A</b>	<b>151</b>	<b>1</b>	<b>0.66</b>	<b>1.34</b>	<b>0.59</b>	<b>(0.01, 3.26)</b>	<b>97</b>	<b>0.00</b>
Faxton - St. Lukes	10	0	0.00	1.31	0.00	(0.00,33.22)	6	0.00
St. Elizabeth Med Ctr	141	1	0.71	1.34	0.63	(0.01, 3.49)	91	0.00
<b>Patel M</b>	<b>89</b>	<b>3</b>	<b>3.37</b>	<b>1.66</b>	<b>2.41</b>	<b>(0.48, 7.04)</b>	<b>83</b>	<b>2.42</b>
South Nassau Com. Hosp	12	1	8.33	1.37	7.18	(0.09,39.98)	8	6.35
St. Francis Hospital	77	2	2.60	1.70	1.81	(0.20, 6.52)	75	1.85

Table 6, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Patel N</b>	<b>352</b>	<b>2</b>	<b>0.57</b>	<b>0.98</b>	<b>0.69</b>	<b>(0.08, 2.49)</b>	<b>303</b>	<b>0.00</b>
St. Catherine of Siena	25	0	0.00	2.03	0.00	(0.00, 8.55)	12	0.00
St. Francis Hospital	2	0	0.00	0.22	0.00	(0.00,100.0)	2	0.00
Univ. Hosp-Stony Brook	325	2	0.62	0.90	0.81	(0.09, 2.92)	289	0.00
<b>Patel R B</b>	<b>237</b>	<b>6</b>	<b>2.53</b>	<b>1.55</b>	<b>1.93</b>	<b>(0.70, 4.20)</b>	<b>114</b>	<b>1.17</b>
Good Sam-West Islip	80	4	5.00	1.63	3.64	(0.98, 9.33)	41	0.00
Long Island Comm. Hosp.	11	0	0.00	1.38	0.00	(0.00,28.52)	1	0.00
Southside Hospital	72	0	0.00	1.17	0.00	(0.00, 5.15)	31	0.00
St. Catherine of Siena	74	2	2.70	1.88	1.71	(0.19, 6.16)	41	3.12
<b>Patel T</b>	<b>922</b>	<b>24</b>	<b>2.60</b>	<b>1.56</b>	<b>1.97 *</b>	<b>(1.26, 2.94)</b>	<b>702</b>	<b>1.36</b>
Rochester General Hosp	213	7	3.29	1.21	3.22 *	(1.29, 6.62)	182	2.52
Unity Hospital	709	17	2.40	1.67	1.70	(0.99, 2.73)	520	1.00
<b>Patel V</b>	<b>160</b>	<b>2</b>	<b>1.25</b>	<b>0.50</b>	<b>2.96</b>	<b>(0.33,10.67)</b>	<b>156</b>	<b>2.12</b>
Mount Sinai Hospital	19	0	0.00	0.17	0.00	(0.00,100.0)	19	0.00
NYP-Brooklyn Methodist	141	2	1.42	0.55	3.08	(0.35,11.12)	137	2.20
<b>Patrello A</b>	<b>236</b>	<b>1</b>	<b>0.42</b>	<b>1.29</b>	<b>0.39</b>	<b>(0.01, 2.16)</b>	<b>199</b>	<b>0.00</b>
St. Lukes Cornwall Hosp	122	0	0.00	0.92	0.00	(0.00, 3.89)	105	0.00
Vassar Bros. Med Ctr	114	1	0.88	1.69	0.61	(0.01, 3.42)	94	0.00
<b>Perry-Bottinger L</b>	<b>27</b>	<b>0</b>	<b>0.00</b>	<b>0.69</b>	<b>0.00</b>	<b>(0.00,23.21)</b>	<b>27</b>	<b>0.00</b>
NYP-Columbia Presby.	25	0	0.00	0.67	0.00	(0.00,25.99)	25	0.00
NYP-Queens	2	0	0.00	1.00	0.00	(0.00,100.0)	2	0.00
<b>Petrossian G</b>	<b>845</b>	<b>8</b>	<b>0.95</b>	<b>1.16</b>	<b>0.97</b>	<b>(0.42, 1.90)</b>	<b>834</b>	<b>0.61</b>
South Nassau Com. Hosp	40	0	0.00	1.58	0.00	(0.00, 6.86)	38	0.00
St. Francis Hospital	805	8	0.99	1.14	1.03	(0.44, 2.03)	796	0.65
<b>Phadke K</b>	<b>662</b>	<b>14</b>	<b>2.11</b>	<b>1.38</b>	<b>1.81</b>	<b>(0.99, 3.04)</b>	<b>439</b>	<b>1.42</b>
Buffalo General Med Ctr	634	14	2.21	1.43	1.82	(1.00, 3.06)	411	1.45
Mercy Hospital-Buffalo	23	0	0.00	0.21	0.00	(0.00,91.74)	23	0.00
Olean General Hosp.	5	0	0.00	0.21	0.00	(0.00,100.0)	5	0.00
<b>Polena S</b>	<b>416</b>	<b>6</b>	<b>1.44</b>	<b>1.04</b>	<b>1.65</b>	<b>(0.60, 3.59)</b>	<b>356</b>	<b>1.56</b>
Huntington Hospital	359	5	1.39	1.03	1.61	(0.52, 3.75)	299	1.65
Long Island Jewish MC	2	0	0.00	0.23	0.00	(0.00,100.0)	2	0.00
North Shore Univ Hosp	55	1	1.82	1.13	1.91	(0.03,10.65)	55	1.28
<b>Poumpouridis K</b>	<b>48</b>	<b>0</b>	<b>0.00</b>	<b>0.47</b>	<b>0.00</b>	<b>(0.00,19.28)</b>	<b>41</b>	<b>0.00</b>
Lenox Hill Hospital	16	0	0.00	0.71	0.00	(0.00,38.20)	10	0.00
Long Island Jewish MC	7	0	0.00	0.62	0.00	(0.00,100.0)	7	0.00
North Shore Univ Hosp	10	0	0.00	0.28	0.00	(0.00,100.0)	10	0.00
Southside Hospital	15	0	0.00	0.27	0.00	(0.00,100.0)	14	0.00
<b>Pulipati B</b>	<b>157</b>	<b>6</b>	<b>3.82</b>	<b>1.23</b>	<b>3.67 *</b>	<b>(1.34, 8.00)</b>	<b>114</b>	<b>4.56 *</b>
Long Island Comm. Hosp.	133	5	3.76	1.37	3.25	(1.05, 7.58)	90	4.21 *
Univ. Hosp-Stony Brook	24	1	4.17	0.46	10.70	(0.14,59.51)	24	6.06
<b>Puma J</b>	<b>365</b>	<b>1</b>	<b>0.27</b>	<b>0.47</b>	<b>0.69</b>	<b>(0.01, 3.86)</b>	<b>365</b>	<b>0.47</b>
Mount Sinai Beth Israel	231	1	0.43	0.45	1.13	(0.01, 6.29)	231	0.75
NYP-Columbia Presby.	134	0	0.00	0.49	0.00	(0.00, 6.57)	134	0.00
<b>Punukollu G</b>	<b>455</b>	<b>7</b>	<b>1.54</b>	<b>0.68</b>	<b>2.69</b>	<b>(1.08, 5.54)</b>	<b>442</b>	<b>1.61</b>
Lenox Hill Hospital	387	6	1.55	0.71	2.57	(0.94, 5.60)	376	1.54
Mount Sinai Beth Israel	68	1	1.47	0.48	3.64	(0.05,20.25)	66	2.06
<b>Pyo R</b>	<b>660</b>	<b>5</b>	<b>0.76</b>	<b>1.38</b>	<b>0.65</b>	<b>(0.21, 1.52)</b>	<b>527</b>	<b>0.17</b>
Elmhurst Hospital Ctr	50	2	4.00	3.47	1.36	(0.15, 4.92)	2	0.00
Montefiore - Moses	540	2	0.37	1.09	0.40	(0.05, 1.45)	472	0.20
Montefiore - Weiler	2	0	0.00	12.35	0.00	(0.00,17.59)	2	0.00
Mount Sinai Hospital	54	0	0.00	1.01	0.00	(0.00, 7.98)	48	0.00
St. Barnabas Hospital	14	1	7.14	4.91	1.72	(0.02, 9.59)	3	0.00

Table 6, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Raza J</b>	<b>578</b>	<b>6</b>	<b>1.04</b>	<b>0.93</b>	<b>1.32</b>	<b>(0.48, 2.87)</b>	<b>455</b>	<b>1.17</b>
Jamaica Hosp Med Ctr	216	1	0.46	1.21	0.45	(0.01, 2.52)	103	0.00
Lenox Hill Hospital	362	5	1.38	0.77	2.13	(0.69, 4.98)	352	1.56
<b>Razzouk L</b>	<b>269</b>	<b>3</b>	<b>1.12</b>	<b>1.38</b>	<b>0.96</b>	<b>(0.19, 2.79)</b>	<b>201</b>	<b>0.87</b>
Bellevue Hospital Ctr	23	1	4.35	4.38	1.18	(0.02, 6.55)	5	0.00
NYU Hospitals Center	246	2	0.81	1.10	0.87	(0.10, 3.16)	196	0.94
<b>Rehman S</b>	<b>172</b>	<b>2</b>	<b>1.16</b>	<b>0.86</b>	<b>1.61</b>	<b>(0.18, 5.82)</b>	<b>161</b>	<b>1.17</b>
Long Island Jewish MC	22	0	0.00	0.84	0.00	(0.00,23.51)	20	0.00
NYP-Brooklyn Methodist	126	2	1.59	0.96	1.97	(0.22, 7.10)	117	1.45
South Nassau Com. Hosp	19	0	0.00	0.33	0.00	(0.00,69.34)	19	0.00
Univ. Hosp-Brooklyn	5	0	0.00	0.38	0.00	(0.00,100.0)	5	0.00
<b>Reich D</b>	<b>668</b>	<b>4</b>	<b>0.60</b>	<b>0.72</b>	<b>0.99</b>	<b>(0.27, 2.54)</b>	<b>615</b>	<b>0.86</b>
Good Sam-West Islip	454	2	0.44	0.68	0.77	(0.09, 2.77)	427	0.64
Southside Hospital	214	2	0.93	0.79	1.40	(0.16, 5.05)	188	1.28
<b>Roccario E</b>	<b>641</b>	<b>13</b>	<b>2.03</b>	<b>1.53</b>	<b>1.57</b>	<b>(0.84, 2.69)</b>	<b>457</b>	<b>1.55</b>
Samaritan Hospital	15	1	6.67	3.35	2.36	(0.03,13.11)	4	0.00
St. Peters Hospital	626	12	1.92	1.48	1.53	(0.79, 2.68)	453	1.56
<b>Rosenband M</b>	<b>251</b>	<b>1</b>	<b>0.40</b>	<b>1.10</b>	<b>0.43</b>	<b>(0.01, 2.38)</b>	<b>226</b>	<b>0.41</b>
St. Catherine of Siena	136	0	0.00	1.06	0.00	(0.00, 3.01)	114	0.00
St. Francis Hospital	3	0	0.00	0.46	0.00	(0.00,100.0)	3	0.00
Univ. Hosp-Stony Brook	112	1	0.89	1.17	0.90	(0.01, 5.01)	109	0.70
<b>Rosero H</b>	<b>499</b>	<b>3</b>	<b>0.60</b>	<b>0.92</b>	<b>0.77</b>	<b>(0.16, 2.26)</b>	<b>436</b>	<b>0.55</b>
Mount Sinai Beth Israel	496	3	0.60	0.92	0.77	(0.16, 2.26)	433	0.56
NYP-Brooklyn Methodist	3	0	0.00	0.30	0.00	(0.00,100.0)	3	0.00
<b>Royzman R</b>	<b>311</b>	<b>5</b>	<b>1.61</b>	<b>1.45</b>	<b>1.31</b>	<b>(0.42, 3.06)</b>	<b>194</b>	<b>0.47</b>
Good Sam - Suffern	2	1	50.00	1.50	39.42	(0.52,100.0)	.	.
NYU Langone Hosp.-Brooklyn	52	2	3.85	2.63	1.73	(0.19, 6.26)	26	2.64
Staten Island Univ Hosp	257	2	0.78	1.22	0.76	(0.09, 2.74)	168	0.00
<b>Rutkin B</b>	<b>244</b>	<b>5</b>	<b>2.05</b>	<b>1.60</b>	<b>1.51</b>	<b>(0.49, 3.53)</b>	<b>181</b>	<b>0.82</b>
Long Island Jewish MC	18	0	0.00	2.58	0.00	(0.00, 9.35)	5	0.00
North Shore Univ Hosp	226	5	2.21	1.53	1.72	(0.55, 4.01)	176	0.86
<b>Sassower M</b>	<b>678</b>	<b>9</b>	<b>1.33</b>	<b>1.46</b>	<b>1.07</b>	<b>(0.49, 2.04)</b>	<b>568</b>	<b>0.96</b>
Faxton - St. Lukes	30	0	0.00	2.96	0.00	(0.00, 4.90)	17	0.00
St. Elizabeth Med Ctr	648	9	1.39	1.39	1.18	(0.54, 2.24)	551	0.99
<b>Sastry A</b>	<b>135</b>	<b>2</b>	<b>1.48</b>	<b>1.26</b>	<b>1.40</b>	<b>(0.16, 5.04)</b>	<b>96</b>	<b>0.00</b>
Bassett Medical Center	131	2	1.53	1.28	1.41	(0.16, 5.11)	94	0.00
Glens Falls Hospital	2	0	0.00	0.43	0.00	(0.00,100.0)	.	.
NYP-Columbia Presby.	2	0	0.00	0.63	0.00	(0.00,100.0)	2	0.00
<b>Schwartz R</b>	<b>997</b>	<b>7</b>	<b>0.70</b>	<b>1.42</b>	<b>0.59</b>	<b>(0.24, 1.21)</b>	<b>884</b>	<b>0.46</b>
Long Island Comm. Hosp.	37	1	2.70	0.86	3.71	(0.05,20.62)	30	4.34
NYU Winthrop Hospital	960	6	0.63	1.44	0.52 **	(0.19, 1.12)	854	0.38
<b>Selim S</b>	<b>137</b>	<b>1</b>	<b>0.73</b>	<b>1.29</b>	<b>0.67</b>	<b>(0.01, 3.73)</b>	<b>97</b>	<b>0.99</b>
Long Island Jewish MC	57	0	0.00	0.83	0.00	(0.00, 9.13)	44	0.00
North Shore Univ Hosp	61	1	1.64	1.89	1.03	(0.01, 5.71)	36	1.97
Southside Hospital	19	0	0.00	0.72	0.00	(0.00,31.90)	17	0.00
<b>Serrano-Gomez C</b>	<b>179</b>	<b>2</b>	<b>1.12</b>	<b>1.44</b>	<b>0.92</b>	<b>(0.10, 3.33)</b>	<b>144</b>	<b>0.86</b>
Bellevue Hospital Ctr	22	1	4.55	4.70	1.15	(0.01, 6.38)	6	7.88
NYU Hospitals Center	157	1	0.64	0.98	0.77	(0.01, 4.29)	138	0.00

Table 6, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Shah A</b>	<b>473</b>	<b>6</b>	<b>1.27</b>	<b>0.61</b>	<b>2.47</b>	<b>(0.90, 5.38)</b>	<b>466</b>	<b>1.42</b>
Lenox Hill Hospital	123	1	0.81	0.48	2.00	(0.03,11.11)	123	1.24
Mount Sinai Hospital	30	1	3.33	1.19	3.32	(0.04,18.46)	29	2.47
NYP-Brooklyn Methodist	288	4	1.39	0.64	2.58	(0.69, 6.61)	282	1.37
NYU Hospitals Center	32	0	0.00	0.28	0.00	(0.00,48.24)	32	0.00
<b>Shah A R</b>	<b>313</b>	<b>4</b>	<b>1.28</b>	<b>1.91</b>	<b>0.79</b>	<b>(0.21, 2.03)</b>	<b>252</b>	<b>0.63</b>
Good Sam - Suffern	312	4	1.28	1.91	0.80	(0.21, 2.04)	251	0.63
Mount Sinai Hospital	1	0	0.00	2.49	0.00	(0.00,100.0)	1	0.00
<b>Shah B</b>	<b>175</b>	<b>2</b>	<b>1.14</b>	<b>1.66</b>	<b>0.82</b>	<b>(0.09, 2.95)</b>	<b>124</b>	<b>0.48</b>
Bellevue Hospital Ctr	150	2	1.33	1.66	0.95	(0.11, 3.44)	109	0.55
NYU Hospitals Center	25	0	0.00	1.65	0.00	(0.00,10.53)	15	0.00
<b>Shah N</b>	<b>256</b>	<b>4</b>	<b>1.56</b>	<b>1.72</b>	<b>1.08</b>	<b>(0.29, 2.76)</b>	<b>180</b>	<b>1.18</b>
St. Lukes Cornwall Hosp	253	4	1.58	1.73	1.08	(0.29, 2.77)	177	1.19
Vassar Bros. Med Ctr	3	0	0.00	0.40	0.00	(0.00,100.0)	3	0.00
<b>Shaknovich A</b>	<b>163</b>	<b>1</b>	<b>0.61</b>	<b>0.90</b>	<b>0.81</b>	<b>(0.01, 4.48)</b>	<b>160</b>	<b>0.71</b>
Maimonides Medical Ctr	35	0	0.00	0.54	0.00	(0.00,22.90)	35	0.00
NYP-Brooklyn Methodist	128	1	0.78	1.00	0.92	(0.01, 5.15)	125	0.85
<b>Shaqra H</b>	<b>141</b>	<b>1</b>	<b>0.71</b>	<b>1.18</b>	<b>0.71</b>	<b>(0.01, 3.96)</b>	<b>104</b>	<b>0.00</b>
Montefiore - Moses	55	1	1.82	1.35	1.60	(0.02, 8.90)	34	0.00
Montefiore - Weiler	81	0	0.00	0.86	0.00	(0.00, 6.20)	69	0.00
St. Barnabas Hospital	5	0	0.00	4.49	0.00	(0.00,19.34)	1	0.00
<b>Sharma A</b>	<b>163</b>	<b>1</b>	<b>0.61</b>	<b>1.19</b>	<b>0.61</b>	<b>(0.01, 3.40)</b>	<b>140</b>	<b>0.00</b>
Arnot Ogden Med Ctr	3	0	0.00	2.99	0.00	(0.00,48.47)	.	.
NYP-Weill Cornell	160	1	0.63	1.16	0.64	(0.01, 3.57)	140	0.00
<b>Shih A T</b>	<b>117</b>	<b>3</b>	<b>2.56</b>	<b>1.42</b>	<b>2.14</b>	<b>(0.43, 6.26)</b>	<b>79</b>	<b>1.15</b>
Montefiore - Moses	94	2	2.13	1.54	1.64	(0.18, 5.92)	60	0.00
NYP-Columbia Presby.	4	1	25.00	1.43	20.73	(0.27,100.0)	4	11.23
NYP-Lawrence Hosp	11	0	0.00	0.49	0.00	(0.00,80.90)	8	0.00
Westchester Med Ctr	8	0	0.00	1.30	0.00	(0.00,41.72)	7	0.00
<b>Shohat E</b>	<b>61</b>	<b>0</b>	<b>0.00</b>	<b>0.30</b>	<b>0.00</b>	<b>(0.00,24.12)</b>	<b>60</b>	<b>0.00</b>
NYP-Brooklyn Methodist	60	0	0.00	0.30	0.00	(0.00,24.24)	59	0.00
Univ. Hosp-Brooklyn	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
<b>Silverman G</b>	<b>295</b>	<b>2</b>	<b>0.68</b>	<b>1.20</b>	<b>0.67</b>	<b>(0.08, 2.42)</b>	<b>179</b>	<b>0.51</b>
Mount Sinai St. Lukes	8	0	0.00	2.72	0.00	(0.00,19.93)	7	0.00
Orange Regional Med Ctr	269	2	0.74	1.15	0.77	(0.09, 2.78)	159	0.61
St. Lukes Cornwall Hosp	1	0	0.00	0.08	0.00	(0.00,100.0)	1	0.00
Westchester Med Ctr	17	0	0.00	1.39	0.00	(0.00,18.38)	12	0.00
<b>Singer G</b>	<b>387</b>	<b>1</b>	<b>0.26</b>	<b>0.72</b>	<b>0.43</b>	<b>(0.01, 2.37)</b>	<b>373</b>	<b>0.34</b>
Rochester General Hosp	360	1	0.28	0.62	0.53	(0.01, 2.93)	355	0.38
Unity Hospital	27	0	0.00	1.99	0.00	(0.00, 8.10)	18	0.00
<b>Singh A</b>	<b>563</b>	<b>7</b>	<b>1.24</b>	<b>1.32</b>	<b>1.11</b>	<b>(0.45, 2.29)</b>	<b>440</b>	<b>0.39</b>
Long Island Jewish MC	470	5	1.06	1.10	1.14	(0.37, 2.67)	382	0.49
North Shore Univ Hosp	93	2	2.15	2.45	1.04	(0.12, 3.75)	58	0.00
<b>Singh T</b>	<b>236</b>	<b>0</b>	<b>0.00</b>	<b>0.25</b>	<b>0.00</b>	<b>(0.00, 7.35)</b>	<b>236</b>	<b>0.00</b>
NYP-Brooklyn Methodist	179	0	0.00	0.27	0.00	(0.00, 9.11)	179	0.00
NYU Hospitals Center	57	0	0.00	0.20	0.00	(0.00,38.11)	57	0.00
<b>Singh V</b>	<b>789</b>	<b>5</b>	<b>0.63</b>	<b>0.68</b>	<b>1.11</b>	<b>(0.36, 2.58)</b>	<b>758</b>	<b>0.68</b>
Lenox Hill Hospital	787	5	0.64	0.68	1.11	(0.36, 2.60)	758	0.68
Long Island Jewish MC	1	0	0.00	0.80	0.00	(0.00,100.0)	.	.
North Shore Univ Hosp	1	0	0.00	3.03	0.00	(0.00,100.0)	.	.

Table 6, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Slater J</b>	<b>439</b>	<b>7</b>	<b>1.59</b>	<b>0.91</b>	<b>2.08</b>	<b>(0.83, 4.29)</b>	<b>380</b>	<b>1.50</b>
Bellevue Hospital Ctr	6	1	16.67	7.87	2.51	(0.03,13.96)	1	0.00
NYU Hospitals Center	433	6	1.39	0.81	2.03	(0.74, 4.41)	379	1.51
<b>Slovut D</b>	<b>228</b>	<b>3</b>	<b>1.32</b>	<b>1.52</b>	<b>1.02</b>	<b>(0.21, 2.99)</b>	<b>136</b>	<b>0.78</b>
Montefiore - Moses	2	0	0.00	1.89	0.00	(0.00,100.0)	.	.
Montefiore - Weiler	226	3	1.33	1.52	1.03	(0.21, 3.02)	136	0.78
<b>Snyder S</b>	<b>141</b>	<b>2</b>	<b>1.42</b>	<b>1.10</b>	<b>1.53</b>	<b>(0.17, 5.53)</b>	<b>110</b>	<b>2.05</b>
Lenox Hill Hospital	1	0	0.00	0.33	0.00	(0.00,100.0)	1	0.00
Richmond Univ Med Cntr	3	0	0.00	0.64	0.00	(0.00,100.0)	.	.
Staten Island Univ Hosp	137	2	1.46	1.11	1.55	(0.17, 5.61)	109	2.05
<b>Srinivas G</b>	<b>153</b>	<b>3</b>	<b>1.96</b>	<b>0.71</b>	<b>3.29</b>	<b>(0.66, 9.62)</b>	<b>149</b>	<b>2.19</b>
Long Island Jewish MC	123	3	2.44	0.75	3.86	(0.78,11.28)	120	2.57
North Shore Univ Hosp	30	0	0.00	0.53	0.00	(0.00,27.45)	29	0.00
<b>Srivastava S</b>	<b>87</b>	<b>0</b>	<b>0.00</b>	<b>0.49</b>	<b>0.00</b>	<b>(0.00,10.19)</b>	<b>87</b>	<b>0.00</b>
NYP-Weill Cornell	34	0	0.00	0.89	0.00	(0.00,14.34)	34	0.00
NYU Hospitals Center	48	0	0.00	0.21	0.00	(0.00,42.93)	48	0.00
NYU Langone Hosp.-Brooklyn	5	0	0.00	0.45	0.00	(0.00,100.0)	5	0.00
<b>Staniloae C</b>	<b>139</b>	<b>5</b>	<b>3.60</b>	<b>0.80</b>	<b>5.33 *</b>	<b>(1.72,12.44)</b>	<b>130</b>	<b>1.92</b>
Bellevue Hospital Ctr	8	2	25.00	4.41	6.72	(0.75,24.26)	2	0.00
NYU Hospitals Center	131	3	2.29	0.58	4.69	(0.94,13.70)	128	2.00
<b>Stathopoulos I</b>	<b>332</b>	<b>1</b>	<b>0.30</b>	<b>0.69</b>	<b>0.51</b>	<b>(0.01, 2.86)</b>	<b>329</b>	<b>0.32</b>
Lenox Hill Hospital	37	0	0.00	1.06	0.00	(0.00,11.08)	36	0.00
NYP-Columbia Presby.	295	1	0.34	0.65	0.62	(0.01, 3.44)	293	0.39
<b>Strizik B</b>	<b>387</b>	<b>5</b>	<b>1.29</b>	<b>1.24</b>	<b>1.24</b>	<b>(0.40, 2.89)</b>	<b>298</b>	<b>1.12</b>
Huntington Hospital	250	4	1.60	1.46	1.30	(0.35, 3.32)	166	1.47
Long Island Jewish MC	2	0	0.00	0.27	0.00	(0.00,100.0)	2	0.00
North Shore Univ Hosp	135	1	0.74	0.84	1.05	(0.01, 5.82)	130	0.76
<b>Stuver T</b>	<b>958</b>	<b>13</b>	<b>1.36</b>	<b>1.18</b>	<b>1.36</b>	<b>(0.72, 2.33)</b>	<b>716</b>	<b>0.86</b>
Cayuga Med Ctr Ithaca	2	0	0.00	3.79	0.00	(0.00,57.28)	.	.
Rochester General Hosp	632	7	1.11	1.14	1.15	(0.46, 2.38)	482	1.00
Strong Memorial Hosp	324	6	1.85	1.25	1.75	(0.64, 3.82)	234	0.50
<b>Suleman J</b>	<b>431</b>	<b>1</b>	<b>0.23</b>	<b>0.40</b>	<b>0.68</b>	<b>(0.01, 3.81)</b>	<b>430</b>	<b>0.43</b>
Jamaica Hosp Med Ctr	6	0	0.00	0.23	0.00	(0.00,100.0)	6	0.00
Mount Sinai Hospital	425	1	0.24	0.40	0.69	(0.01, 3.84)	424	0.44
<b>Sullivan P</b>	<b>250</b>	<b>5</b>	<b>2.00</b>	<b>1.35</b>	<b>1.76</b>	<b>(0.57, 4.11)</b>	<b>142</b>	<b>2.21</b>
Buffalo General Med Ctr	200	3	1.50	1.50	1.18	(0.24, 3.45)	98	0.99
Mercy Hospital-Buffalo	50	2	4.00	0.71	6.70	(0.75,24.18)	44	5.68
<b>Swamy S</b>	<b>53</b>	<b>0</b>	<b>0.00</b>	<b>0.57</b>	<b>0.00</b>	<b>(0.00,14.49)</b>	<b>46</b>	<b>0.00</b>
Richmond Univ Med Cntr	38	0	0.00	0.62	0.00	(0.00,18.31)	31	0.00
Staten Island Univ Hosp	15	0	0.00	0.42	0.00	(0.00,69.51)	15	0.00
<b>Tamburrino F</b>	<b>362</b>	<b>1</b>	<b>0.28</b>	<b>0.67</b>	<b>0.49</b>	<b>(0.01, 2.70)</b>	<b>307</b>	<b>0.00</b>
Richmond Univ Med Cntr	4	0	0.00	0.45	0.00	(0.00,100.0)	4	0.00
Staten Island Univ Hosp	358	1	0.28	0.68	0.49	(0.01, 2.72)	303	0.00
<b>Tsiamtsiouris T</b>	<b>358</b>	<b>6</b>	<b>1.68</b>	<b>1.51</b>	<b>1.31</b>	<b>(0.48, 2.85)</b>	<b>327</b>	<b>0.99</b>
St. Catherine of Siena	1	0	0.00	0.61	0.00	(0.00,100.0)	.	.
St. Francis Hospital	357	6	1.68	1.52	1.31	(0.48, 2.86)	327	0.99
<b>Vahl T</b>	<b>145</b>	<b>5</b>	<b>3.45</b>	<b>2.23</b>	<b>1.83</b>	<b>(0.59, 4.28)</b>	<b>110</b>	<b>1.58</b>
NYP-Columbia Presby.	130	5	3.85	2.08	2.19	(0.71, 5.12)	108	1.58
NYP-Lawrence Hosp	15	0	0.00	3.54	0.00	(0.00, 8.18)	2	0.00



Table 6, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Vales L</b>	<b>57</b>	<b>0</b>	<b>0.00</b>	<b>0.53</b>	<b>0.00</b>	<b>(0.00,14.37)</b>	<b>55</b>	<b>0.00</b>
Mount Sinai Beth Israel	6	0	0.00	0.36	0.00	(0.00,100.0)	6	0.00
NYU Hospitals Center	51	0	0.00	0.55	0.00	(0.00,15.48)	49	0.00
<b>Varma P</b>	<b>178</b>	<b>2</b>	<b>1.12</b>	<b>1.40</b>	<b>0.95</b>	<b>(0.11, 3.43)</b>	<b>125</b>	<b>0.75</b>
Faxton - St. Lukes	16	0	0.00	1.23	0.00	(0.00,22.00)	12	0.00
St. Elizabeth Med Ctr	162	2	1.23	1.42	1.03	(0.12, 3.72)	113	0.86
<b>Weinberg M</b>	<b>238</b>	<b>3</b>	<b>1.26</b>	<b>1.13</b>	<b>1.33</b>	<b>(0.27, 3.88)</b>	<b>158</b>	<b>1.23</b>
Lenox Hill Hospital	22	0	0.00	0.67	0.00	(0.00,29.46)	21	0.00
Long Island Jewish MC	20	1	5.00	2.13	2.78	(0.04,15.48)	5	8.53
North Shore Univ Hosp	196	2	1.02	1.07	1.13	(0.13, 4.06)	132	0.74
<b>Weinstein J</b>	<b>422</b>	<b>6</b>	<b>1.42</b>	<b>1.18</b>	<b>1.43</b>	<b>(0.52, 3.10)</b>	<b>368</b>	<b>0.78</b>
St. Catherine of Siena	30	1	3.33	2.58	1.53	(0.02, 8.50)	13	0.00
St. Francis Hospital	47	0	0.00	0.93	0.00	(0.00, 9.90)	45	0.00
Univ. Hosp-Stony Brook	345	5	1.45	1.09	1.57	(0.51, 3.67)	310	0.94
<b>Wilentz J</b>	<b>75</b>	<b>0</b>	<b>0.00</b>	<b>0.48</b>	<b>0.00</b>	<b>(0.00,12.09)</b>	<b>74</b>	<b>0.00</b>
Mount Sinai Beth Israel	15	0	0.00	0.32	0.00	(0.00,90.07)	15	0.00
NYP-Weill Cornell	60	0	0.00	0.52	0.00	(0.00,13.97)	59	0.00
<b>Wiley J</b>	<b>145</b>	<b>6</b>	<b>4.14</b>	<b>1.46</b>	<b>3.35 *</b>	<b>(1.22, 7.29)</b>	<b>110</b>	<b>2.89</b>
Elmhurst Hospital Ctr	10	1	10.00	3.03	3.91	(0.05,21.78)	.	.
Montefiore - Moses	108	5	4.63	1.29	4.26 *	(1.37, 9.95)	91	3.95 *
Montefiore - Weiler	1	0	0.00	0.51	0.00	(0.00,100.0)	1	0.00
Mount Sinai Hospital	26	0	0.00	1.64	0.00	(0.00,10.20)	18	0.00
<b>Williams M</b>	<b>64</b>	<b>3</b>	<b>4.69</b>	<b>1.31</b>	<b>4.23</b>	<b>(0.85,12.36)</b>	<b>63</b>	<b>2.90</b>
NYP-Columbia Presby.	27	1	3.70	1.14	3.84	(0.05,21.39)	26	2.63
NYU Hospitals Center	37	2	5.41	1.44	4.46	(0.50,16.09)	37	3.05
<b>Winston B</b>	<b>571</b>	<b>9</b>	<b>1.58</b>	<b>0.97</b>	<b>1.93</b>	<b>(0.88, 3.67)</b>	<b>441</b>	<b>1.11</b>
Albany Med. Ctr	74	1	1.35	1.57	1.02	(0.01, 5.66)	32	0.00
Samaritan Hospital	57	2	3.51	1.25	3.31	(0.37,11.96)	20	6.49
St. Peters Hospital	440	6	1.36	0.83	1.96	(0.71, 4.26)	389	0.94
<b>Witkes D</b>	<b>42</b>	<b>0</b>	<b>0.00</b>	<b>0.76</b>	<b>0.00</b>	<b>(0.00,13.57)</b>	<b>42</b>	<b>0.00</b>
NYU Winthrop Hospital	1	0	0.00	0.21	0.00	(0.00,100.0)	1	0.00
North Shore Univ Hosp	41	0	0.00	0.78	0.00	(0.00,13.66)	41	0.00
<b>Yadav S</b>	<b>249</b>	<b>7</b>	<b>2.81</b>	<b>1.65</b>	<b>2.02</b>	<b>(0.81, 4.15)</b>	<b>199</b>	<b>1.15</b>
Long Island Jewish MC	17	0	0.00	0.70	0.00	(0.00,36.67)	15	0.00
St. Francis Hospital	232	7	3.02	1.72	2.08	(0.83, 4.28)	184	1.22
<b>Yarkoni A</b>	<b>257</b>	<b>5</b>	<b>1.95</b>	<b>1.66</b>	<b>1.39</b>	<b>(0.45, 3.25)</b>	<b>206</b>	<b>0.73</b>
Arnot Ogden Med Ctr	18	2	11.11	2.38	5.52	(0.62,19.94)	10	12.63
UHS-Wilson Med Ctr	239	3	1.26	1.60	0.93	(0.19, 2.71)	196	0.37
<b>Yatskar L</b>	<b>441</b>	<b>4</b>	<b>0.91</b>	<b>0.80</b>	<b>1.35</b>	<b>(0.36, 3.46)</b>	<b>314</b>	<b>0.00</b>
Elmhurst Hospital Ctr	438	4	0.91	0.80	1.35	(0.36, 3.46)	311	0.00
NYU Hospitals Center	3	0	0.00	0.27	0.00	(0.00,100.0)	3	0.00
<b>Zgheib M</b>	<b>261</b>	<b>3</b>	<b>1.15</b>	<b>0.58</b>	<b>2.36</b>	<b>(0.47, 6.88)</b>	<b>254</b>	<b>1.80</b>
Mount Sinai Hospital	16	0	0.00	0.24	0.00	(0.00,100.0)	16	0.00
Richmond Univ Med Cntr	16	0	0.00	0.41	0.00	(0.00,66.12)	13	0.00
Staten Island Univ Hosp	229	3	1.31	0.61	2.53	(0.51, 7.39)	225	1.89
<b>Zisfein J</b>	<b>322</b>	<b>2</b>	<b>0.62</b>	<b>0.84</b>	<b>0.87</b>	<b>(0.10, 3.16)</b>	<b>298</b>	<b>0.80</b>
NYU Winthrop Hospital	83	0	0.00	1.35	0.00	(0.00, 3.87)	81	0.00
South Nassau Com. Hosp	239	2	0.84	0.66	1.49	(0.17, 5.39)	217	1.34

\* 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 (2016)

Based on Documentation in Medical Record

Patient Risk Factor	Definitions
<b>Demographic</b>	
Body Surface Area	<p>Body surface area (BSA) is a function of height and weight and increases for larger heights and weights. The statistical formula used to calculate BSA in this report is:  <math>BSA (m^2) = 0.0003207 \times H^{0.3} \times W^{(0.7285 - (0.0188 \times \text{LOG}))}</math>            Where H is Height in centimeters and W is Weight in grams.</p>
Body Mass Index	<p>Body Mass Index (BMI) is a measure of body size that is the ratio of the weight of the body in kilograms to the square of its height in meters and is considered an indication of nutritional status of the body.</p> <p>The formula for BMI is: <math>BMI = \text{Weight} / \text{Height}^2</math> where Height is height in meters (m) and Weight is weight in kilograms (kg).</p>
<b>Hemodynamic State</b>	
Non-Refractory Cardiogenic Shock	<p>Determined just prior to the intervention.</p> <p>Non-Refractory Cardiogenic Shock is defined as an episode of systolic blood pressure &lt;90 mmHg and/or cardiac index &lt; 2.2 L/min/m<sup>2</sup> determined to be secondary to cardiac dysfunction and the requirement for parenteral inotropic or vasopressor agents or mechanical support (e.g., IABP, extracorporeal circulation, VAD) to maintain blood pressure and cardiac index above those specified levels. (Definition adopted in 2015)</p> <p>Prior to 2015 the risk factor was called “Unstable” and defined as follows:            Patient requires pharmacologic or mechanical support to maintain blood pressure or cardiac output.</p>
Refractory Cardiogenic Shock	<p>Refractory Cardiogenic Shock is defined as an episode of systolic blood pressure &lt;80 mm Hg and/or cardiac index &lt;2.0 L/min /m<sup>2</sup> determined to be secondary to cardiac dysfunction despite the use of parenteral inotropic or vasopressor agents or mechanical support (e.g., IABP, extracorporeal circulation, VADs). (Definition adopted in 2015.)</p> <p>Prior to 2015 the risk factor was called “Shock” and defined as follows:            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>

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## Comorbidities

Cerebrovascular Disease	<p>The patient has cerebrovascular disease, documented by any one of the following:</p> <ul style="list-style-type: none"><li>• CVA (symptoms &gt; 24 hrs after onset, presumed to be from vascular etiology);</li><li>• TIA (recovery within 24 hrs);</li><li>• Non-invasive carotid test with &gt; 79% diameter occlusion; or</li><li>• Prior carotid surgery or stenting or prior cerebral aneurysm clipping or coil.</li></ul>
Congestive Heart Failure (CHF), Current	<p>Within 2 weeks prior to the procedure, the patient has a clinical diagnosis of CHF and symptoms requiring treatment for CHF. Note: Physician diagnosis of CHF may be based on one of the following:</p> <ul style="list-style-type: none"><li>• Paroxysmal nocturnal dyspnea (PND)</li><li>• Dyspnea on exertion (DOE) due to heart failure</li><li>• Chest X-Ray showing pulmonary congestion</li></ul> <p>Documentation must include the presence of a diagnosis of CHF, evidence of symptoms, and treatment for CHF.</p>
Congestive Heart Failure (CHF), Past	<p>Between 2 weeks and 6 months prior to the procedure, the patient has a clinical diagnosis / past medical history of CHF and ongoing treatment for CHF. Note: Physician diagnosis of CHF may be based on one of the following:</p> <ul style="list-style-type: none"><li>• Paroxysmal nocturnal dyspnea (PND)</li><li>• Dyspnea on exertion (DOE) due to heart failure</li><li>• Chest X-Ray showing pulmonary congestion</li></ul> <p>Documentation must include a diagnosis of CHF and evidence of treatment for CHF. Patient's clinical status may be compensated.</p>
Chronic Lung Disease	<p>The patient has chronic lung disease, and the severity level according to the following classification:</p> <ul style="list-style-type: none"><li>• Mild - FEV1 60% to 75% of predicted, and/or on chronic inhaled or oral bronchodilator therapy.</li><li>• Moderate - FEV1 50% to 59% of predicted, and/or on chronic steroid therapy aimed at lung disease.</li><li>• Severe - FEV1 &lt;50% predicted, and/or Room Air pO<sub>2</sub> &lt; 60 or Room Air pCO<sub>2</sub> &gt; 50.</li></ul>
Diabetes	<p>The patient has a history of diabetes diagnosed and/or treated by a healthcare provider.</p>
Malignant Ventricular Arrhythmia	<p>Recent (within the past 14 days) sustained ventricular tachycardia requiring electrical defibrillation or conversion with intravenous antiarrhythmic agents or ventricular fibrillation requiring electrical defibrillation. Excludes V-Tach or V-Fib occurring within 6 hours of the diagnosis of a myocardial infarction and responding well to treatment.</p>

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**Comorbidities, *continued***

Peripheral Vascular Disease	Angiographic demonstration of at least 50% narrowing in a major aortoiliac or femoral/popliteal vessel, previous surgery for such disease, absent femoral or pedal pulses, or the inability to insert a catheter or intra-aortic balloon due to iliac aneurysm or obstruction of the aortoiliac or femoral arteries. Ankle-Brachial Index <0.9 is also acceptable documentation.
Renal Failure, Creatinine	The last Pre-PCI creatinine before the procedure was within the indicated range.
Renal Failure, Dialysis	The patient is on chronic peritoneal or hemodialysis.

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**Ventricular Function**

Previous MI	Most recent myocardial infarction (MI) occurred in the specified time period before the intervention.
ST Elevation	EKG evidence of STEMI and cardiac biomarkers exceeding the upper limit of normal.
Ejection Fraction	The percentage of blood in the heart's left ventricle that is expelled when it contracts, with more denoting a healthier heart. Report the value of the ejection fraction taken closest to, but before, the procedure. When a calculated measure is unavailable the ejection fraction should be estimated visually from the ventriculogram or by echocardiography.

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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.

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## Hypoxic Brain Injury

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### Criteria for Hypoxic Brain Injury Mortality Exclusion

#### Pre-PCI Criteria

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

#### Procedural Criteria

1. No In-lab Death: The patient survives the procedure, even if emergency surgery is done.

#### Post-PCI Criteria

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

**NOTE:** Beginning with discharges in 2016, cases were excluded if they met the criteria listed under Pre-PCI. All criteria were required in prior years.

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### Variables in TAVR model not used in PCI models

#### Extensive Aortic Atherosclerosis

Ascending, transverse, and/or descending aortic atherosclerosis marked by either extensive calcification or luminal atheroma such that the intended surgical procedure is altered.

#### Hepatic Failure

The patient has cirrhosis or other liver disease and has a bilirubin > 2 mg/dL and a serum albumin < 3.5 g/dL.

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# MEDICAL TERMINOLOGY

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

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

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

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

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

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

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

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

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

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

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

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

**risk factors for heart disease** – Certain risk factors have been found to increase the likelihood of developing heart disease. Some are controllable or avoidable and some cannot be controlled. The biggest heart disease risk factors are heredity, gender and age, all of which cannot be controlled. Men are much more likely to develop heart disease than women before the age of 55, although it is the number one killer of both men and women. Some controllable risk factors that contribute to a higher likelihood of developing coronary artery disease are high cholesterol levels, cigarette smoking, high blood pressure (hypertension), obesity, a sedentary lifestyle or lack of exercise, diabetes and poor stress management.

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

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

# Appendix 1

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## 2016 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 2016 are presented in the table that follows. Roughly speaking, the odds ratio for a risk factor represents the number of times more likely to die in the hospital during or after PCI or after hospital discharge but within 30 days of the PCI a patient with that risk factor is than a patient without the risk factor, all other risk factors being the same. For example, the odds ratio for the risk factor “CHF-Current” is 2.108. This means that a patient with CHF, within two weeks is approximately 2.108 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 who has the same other significant risk factors. The risk factors Non-Refractory Shock, Cerebrovascular Disease (not TIA only), Peripheral Vascular Disease, Malignant Ventricular Arrhythmia, Diabetes with Insulin Therapy, and Left Main Disease are also interpreted in the same way.

With regard to age, the odds ratio roughly represents the number of times more likely to die a patient who is over age 65 is than another patient who is one year younger, all other significant risk factors being the same. Thus, a patient undergoing PCI who is 66 years old has approximately 1.075 times the chance of dying in the hospital or within 30 days that a 65 year-old patient has, all other risk factors being the same. All patients aged sixty-five years or younger have roughly the same odds of dying in the hospital or after discharge but within 30 days, if their other risk factors are identical.

Body Mass Index (BMI) is a relationship of weight to height. It is a measure of body size that is the ratio of the weight of the body in kilograms to the square of its height in meters and is considered an indication of nutritional status of the body. In this model, all patients with a BMI less than 22.0 kg/m<sup>2</sup> are 1.469 times as likely to die in the hospital or within 30 days of discharge as patients with a higher BMI whose other significant risk factors are the same.

Ejection Fraction, which is the percentage of blood in the heart’s left ventricle that is expelled when it contracts (with more denoting a healthier heart), is subdivided into five ranges (less than 20 percent, 20 percent to 29 percent, 30 percent to 39 percent, 40 percent to 49 percent, and 50 percent or more). The last range is referred to as the reference category. This means that the odds ratio that appears for the other Ejection Fraction categories in the table is relative to patients with an ejection fraction of 50 percent or more. Thus, a PCI patient with an ejection fraction of less than 20 percent is about 4.552 times as likely to die in the hospital or within 30 days as a patient with an ejection fraction of 50 percent or higher, all other significant risk factors being the same.

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

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

Renal Failure is subdivided into five groups. Three categories represent patients with various levels of elevated creatinine, but no dialysis. The fourth category includes patients with renal failure on dialysis. These groups are relative to patients who are not on dialysis and had no pre-PCI creatinine values greater than 1.2 mg/dL.



# Appendix 1

## Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2016 (All Cases)

Patient Risk Factors	Prevalence (%)	Regression Coefficient	P value	Odds Ratio
<b>Demographic</b>				
Age: number of years > 65	--	0.0727	<.0001	1.075
Body Mass Index (BMI) < 22.0 kg/m <sup>2</sup>	6.15	0.3845	0.0028	1.469
<b>Hemodynamic Status</b>				
Non-Refractory Shock	0.46	2.1381	<.0001	8.484
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 50% or greater	72.35	– Reference –		1.000
Ejection Fraction less than 20%	0.89	1.5156	<.0001	4.552
Ejection Fraction 20-29%	3.91	1.0490	<.0001	2.855
Ejection Fraction 30-39%	7.72	0.8657	<.0001	2.377
Ejection Fraction 40-49%	15.13	0.4769	<.0001	1.611
Pre-Procedural MI				
No MI within 20 Days	65.44	– Reference –		1.000
MI with ST Elevation				
MI < 6 hrs	9.40	1.7889	<.0001	5.983
MI 6-11 hrs	1.55	2.1781	<.0001	8.829
MI 12 – 23 hrs	0.82	2.5643	<.0001	12.992
MI without ST Elevation within 24 hours	5.31	1.0752	<.0001	2.931
MI with or without ST Elevation 1-20 days	17.47	0.9796	<.0001	2.663
<b>Comorbidities</b>				
Cerebrovascular Disease (not TIA only)	7.87	0.5262	<.0001	1.693
Chronic Lung Disease				
None or Mild	98.24	– Reference –		1.000
Moderate	1.36	0.5978	0.0087	1.818
Severe	0.40	1.2449	0.0003	3.473
Congestive Heart Failure, Current (within 2 weeks)	7.83	0.7459	<.0001	2.108
Diabetes with Insulin Therapy	15.55	0.4710	<.0001	1.602
Malignant Ventricular Arrhythmia	0.76	0.7290	0.0015	2.073
Peripheral Vascular Disease	9.41	0.4957	<.0001	1.642
Renal Failure				
No Renal Dialysis and Creatinine < 1.2 mg/dL	71.09	– Reference –		1.000
Creatinine ≥ 1.2 and ≤ 1.5 mg/dL	19.03	0.3458	0.0011	1.413
Creatinine > 1.5 and ≤ 2.0 mg/dL	4.91	0.6083	<.0001	1.837
Creatinine > 2.0 mg/dL	2.08	0.9206	<.0001	2.511
Renal Dialysis	2.89	0.9918	<.0001	2.696
<b>Vessels Diseased</b>				
Left Main Disease	4.20	0.6156	<.0001	1.851

Intercept = -6.8096

C Statistic = 0.876

## Appendix 2

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### 2016 Risk Factors For In-Hospital/30-Day Mortality For Non-Emergency PCI

Appendix 2 contains the significant pre-procedural risk factors for 2016 New York State PCI patients who were not emergency patients (were not hemodynamically unstable and who did not suffer a heart attack within 24 hours prior to the PCI being performed).

The interpretation for Ejection Fraction, Cerebrovascular Disease (not TIA only), Chronic Lung Disease, CHF-Current, Diabetes with Insulin Therapy, Malignant Ventricular Arrhythmia and Left Main Disease are the same as presented in Appendix 1. Previous MI 1-20 days is interpreted in the same way as CHF-Current in Appendix 1; the patient either has the risk factor or does not. The interpretation for Age: number of years > 70 is similar to that described in Appendix 1 except in this case, all patients less than or equal to age 70 have the same risk if their other significant

risk factors are the same. are the same as presented in Appendix 1.

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

In this model, BMI is divided into four groups representing various levels of BMI. The reference group is patients with BMI of at least 25 kg/m<sup>2</sup> but less than 40 kg/m<sup>2</sup>. This means that odds of death are higher for patients with higher and lower BMI, when all other significant risk factors are the same.

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

## Appendix 2

### Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2016 (Non-Emergency Cases)

Patient Risk Factors	Prevalence (%)	Regression Coefficient	P value	Odds Ratio
<b>Demographic</b>				
Age: number of years > 70	—	0.0791	<.0001	—
Body Mass Index (kg/m <sup>2</sup> )				
< 18.5 kg/m <sup>2</sup>	0.87	1.4640	<.0001	4.323
≥ 18.5 and < 25.0 kg/m <sup>2</sup>	20.12	0.6612	0.0002	1.937
≥ 25.0 and ≤ 40.0 kg/m <sup>2</sup>	73.14	— Reference —		1.000
> 40.0 kg/m <sup>2</sup>	5.86	0.7229	0.0082	2.060
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 50% or greater	76.71	— Reference —		1.000
Ejection Fraction less than 20%	0.79	2.1905	<.0001	8.939
Ejection Fraction 20-29%	3.33	1.7970	<.0001	6.031
Ejection Fraction 30-39%	6.38	1.5341	<.0001	4.637
Ejection Fraction 40-49%	12.80	0.9445	<.0001	2.571
Pre-Procedural MI 1-20 days	21.00	1.4681	<.0001	4.341
<b>Comorbidities</b>				
Cerebrovascular Disease (not TIA only)	8.43	1.0582	<.0001	2.881
Chronic Lung Disease				
None or Mild	98.16	— Reference —		1.000
Moderate	1.42	1.4547	<.0001	4.283
Severe	0.42	1.7086	<.0001	5.521
Congestive Heart Failure Current (within 2 weeks)	8.17	1.2669	<.0001	3.550
Diabetes with Insulin Therapy	16.80	1.1596	<.0001	3.189
Malignant Ventricular Arrhythmia	0.54	1.4851	<.0001	4.416
Renal Failure				
Creatinine < 1.2 mg/dL	70.83	— Reference —		1.000
Creatinine ≥ 1.2 and ≤ 2.0 mg/dL	23.82	0.8235	<.0001	2.279
Creatinine ≥ 2.0 mg/dL	2.10	1.1274	<.0001	3.088
Renal Dialysis	3.25	1.3694	<.0001	3.933
Vessels Diseased				
Left Main Disease	4.49	1.2899	<.0001	3.633
Sum of Risk Factors Squared	—	-0.0812	<.0001	--

Intercept = -7.2119

C Statistic = 0.865

## Appendix 3

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### 2016 Risk Factors For 30-Day Readmission For PCI

The significant pre-procedural risk factors for 30-day readmissions following PCI in 2016 are presented in the table that follows. The interpretation for some of the variables in this model was described in Appendix 1 or 2. This includes Peripheral Vascular Disease, Malignant Ventricular Arrhythmia, and Diabetes with Insulin Therapy. For Ejection Fraction, Previous MI, and Renal Failure, the interpretation is generally the same as Appendix 1 or 2, but the groups are constructed differently in this model.

The interpretation for Female is similar to that described for CHF-Current in Appendix 1.

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

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

levels of BSA. This functional form is used to improve the model's ability to predict mortality, but it means that the odds ratios for these terms do not have a straightforward interpretation.

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

Cerebrovascular disease is divided into three groups: patients whose only cerebrovascular disease was a transient ischemic attack (TIA); patients who have cerebrovascular disease other than a TIA; and patients with no cerebrovascular disease. The odds ratios for the first two groups are relative to patients with no cerebrovascular disease.

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

## Appendix 3

### Multivariate Risk-Factor Equation for 30-Day Readmission Following PCI, 2016

Patient Risk Factors	Prevalence (%)	Regression Coefficient	P value	Odds Ratio
<b>Demographic</b>				
Age	—	-0.0542	<.0001	—
Age squared / 100	—	0.0487	<.0001	—
Female	29.79	0.2885	<.0001	1.334
Body Surface Area	—	-1.7795	0.0028	—
Body Surface Area – squared	—	0.4127	0.0037	—
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 40% or greater	87.89	— Reference —	—	1.000
Ejection Fraction less than 20%	0.82	0.5081	0.0003	1.662
Ejection Fraction 20-29%	3.74	0.4768	<.0001	1.611
Ejection Fraction 30-39%	7.55	0.2571	<.0001	1.293
Pre-Procedural MI				
No MI within 14 days	65.67	— Reference —	—	1.000
MI with ST elevation within 24 hours	11.54	0.4296	<.0001	1.537
MI without ST elevation within 24 hours	5.46	0.1609	0.0351	1.175
MI with or without ST elevation within 1-14 Days	17.32	0.2727	<.0001	1.313
<b>Comorbidities</b>				
Cerebrovascular Disease				
No Cerebrovascular Disease	90.01	— Reference —	—	1.000
Only TIA	2.18	0.2597	<.0001	1.296
Cerebrovascular Disease other than TIA	7.81	0.3160	0.0013	1.372
Peripheral Vascular Disease	9.16	0.3066	<.0001	1.359
Congestive Heart Failure (CHF)				
No CHF within 6 months	87.44	— Reference —	—	1.000
CHF, Current (within 2 weeks)	7.66	0.4041	<.0001	1.498
CHF, Past but not current (2 wks - 6 mon)	4.90	0.2347	0.0005	1.264
Malignant Ventricular Arrhythmia	0.70	0.4020	0.0096	1.495
Chronic Lung Disease				
None	93.42	— Reference —	—	1.000
Mild	4.81	0.4322	<.0001	1.541
Moderate	1.36	0.7329	<.0001	2.081
Severe	0.41	0.9050	<.0001	2.472
Diabetes with Insulin Therapy	15.42	0.3120	<.0001	1.366
Renal Failure				
No Renal Dialysis and Creatinine < 1.2 mg/dL	71.57	— Reference —	—	1.000
Creatinine ≥ 1.2 and ≤ 2.0 mg/dL	23.60	0.2535	<.0001	1.288
Creatinine > 2.0 and ≤ 2.5 mg/dL	1.08	0.4226	0.0012	1.526
Creatinine > 2.5 mg/dL	0.94	0.7540	<.0001	2.125
Renal Dialysis	2.82	0.9613	<.0001	2.615
<b>Coronary Arteries Diseased</b>				
Fewer than Two Vessels Diseased	54.87	— Reference —	—	1.000
Two Vessels Diseased	31.71	0.1077	0.0043	1.114
Three Vessels Diseased	13.43	0.2797	<.0001	1.323

Intercept = 0.2509

C Statistic = 0.669

## Appendix 4

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### **2014-2016 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 2014-2016 time period are presented in the table that follows. The interpretation of this table is similar to the interpretation of

Appendices 1-3. All variables are interpreted in the same way as previously described although in some cases the levels of the variable are divided differently.

## Appendix 4

### Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2014-2016 (All Cases)

Patient Risk Factors	Prevalence (%)	Regression Coefficient	P value	Odds Ratio
<b>Demographic</b>				
Age: Number of years greater than 55	—	0.0566	<.0001	1.058
Body Mass Index ( kg/m <sup>2</sup> )				
< 16.5 kg/m <sup>2</sup>	0.20	1.0952	0.0001	2.990
≥ 16.5 and < 18.5 kg/m <sup>2</sup>	0.65	0.7871	<.0001	2.197
≥ 18.5 and < 25.0 kg/m <sup>2</sup>	20.72	0.1846	0.0014	1.203
≥ 25.0 and ≤ 40.0 kg/m <sup>2</sup>	72.77	— Reference —	—	1.000
> 40.0 kg/m <sup>2</sup>	5.66	0.3397	0.0042	1.405
<b>Hemodynamic Status</b>				
Non-Refractory Shock	0.44	2.0826	<.0001	8.026
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 50% or greater	71.89	— Reference —	—	1.000
Ejection Fraction less than 20%	0.86	1.6142	<.0001	5.024
Ejection Fraction 20-29%	4.01	1.0799	<.0001	2.944
Ejection Fraction 30-39%	7.87	0.7256	<.0001	2.066
Ejection Fraction 40-49%	15.37	0.2940	<.0001	1.342
Pre-Procedural MI				
No within 20 Days	65.53	— Reference —	—	1.000
MI with ST Elevation				
MI < 6 hrs	9.78	1.9576	<.0001	7.083
MI 6-11 hrs	1.59	2.2767	<.0001	9.744
MI 12 – 23 hrs	0.82	2.3585	<.0001	10.575
MI without ST Elevation				
MI < 6 hrs	0.78	1.6872	<.0001	5.404
MI 6-11 hrs	1.44	0.8070	0.0003	2.241
MI 12 – 23 hrs	3.09	1.2472	<.0001	3.481
MI with or without ST Elevation				
MI 1-14 days	16.62	1.0190	<.0001	2.770
MI 15-20 days	0.34	0.8346	0.0051	2.304
<b>Comorbidities</b>				
Cerebrovascular Disease (not TIA only)	8.03	0.3707	<.0001	1.449
Chronic Lung Disease				
None	93.64	— Reference —	—	1.000
Mild	4.02	0.2197	0.0364	1.246
Moderate	1.97	0.5949	<.0001	1.813
Severe	0.37	1.0775	<.0001	2.937
Congestive Heart Failure (CHF) (within 2 weeks)	7.34	0.6638	<.0001	1.942
Diabetes with Insulin Therapy	15.23	0.2704	<.0001	1.311
Malignant Ventricular Arrhythmia	0.70	0.5982	<.0001	1.819
Peripheral Vascular Disease	9.22	0.4245	<.0001	1.529
Renal Failure				
No Renal Dialysis and Creatinine < 1.2 mg/dL	70.95	— Reference —	—	1.000
Creatinine ≥ 1.2 and ≤ 1.5 mg/dL	19.29	0.2567	<.0001	1.293
Creatinine > 1.5 and ≤ 2.0 mg/dL	4.87	0.5686	<.0001	1.766
Creatinine > 2.0 mg/dL	2.06	0.9017	<.0001	2.464
Renal Dialysis	2.83	1.2213	<.0001	3.392
<b>Vessels</b>				
Left Main Disease	4.34	0.5126	<.0001	1.670
Number of Vessels Diseased				
Fewer than Two Vessels Diseased	54.67	— Reference —	—	1.000
Two Vessels Diseased	31.93	0.1322	0.0237	1.141
Three Vessels Diseased	13.40	0.2676	<.0001	1.307

Intercept = -7.1813

C Statistic = 0.869



## Appendix 5

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### **2014-2016 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 2014-2016 time period are presented in the Appendix 5 table below. The interpretation for this appendix is similar to the interpretation of Appendices 1-4 described previously.

## Appendix 5

### Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2014-2016 (Non-Emergency Cases)

Patient Risk Factors	Prevalence (%)	Regression Coefficient	P value	Odds Ratio
<b>Demographic</b>				
Age	—	-0.0474	0.0979	—
Age Squared	—	0.0634	0.0017	—
Female Gender	29.88	0.6898	<.0001	1.993
<b>Body Mass Index (kg/m<sup>2</sup>)</b>				
< 16.5 kg/m <sup>2</sup>	0.19	1.4152	0.0002	4.117
≥ 16.5 and < 18.5 kg/m <sup>2</sup>	0.64	1.0507	<.0001	2.860
≥ 18.5 and < 25.0 kg/m <sup>2</sup>	20.54	0.5530	<.0001	1.738
≥ 25.0 and ≤ 40.0 kg/m <sup>2</sup>	72.80	— Reference —	—	1.000
> 40.0 kg/m <sup>2</sup>	5.81	0.5552	0.0009	1.742
<b>Ventricular Function</b>				
<b>Ejection Fraction</b>				
Ejection Fraction 50% or greater	76.55	— Reference —	—	1.000
Ejection Fraction less than 20%	0.75	1.9158	<.0001	6.793
Ejection Fraction 20-29%	3.40	1.5238	<.0001	4.590
Ejection Fraction 30-39%	6.50	1.1972	<.0001	3.311
Ejection Fraction 40-49%	12.80	0.7361	<.0001	2.088
<b>Pre-Procedural MI</b>				
No within 20 Days	79.51	— Reference —	—	1.000
MI 1- 14 days	20.08	1.3783	<.0001	3.968
MI 15-20 days	0.42	1.1923	<.0001	3.295
<b>Comorbidities</b>				
Cerebrovascular Disease (not TIA only)	8.64	0.7048	<.0001	2.024
<b>Chronic Lung Disease</b>				
None	93.27	— Reference —	—	1.000
Mild	4.27	0.7358	<.0001	2.087
Moderate	2.05	1.1772	<.0001	3.245
Severe	0.41	1.6447	<.0001	5.179
Congestive Heart Failure (CHF) (within 2 weeks)	7.72	1.1627	<.0001	3.198
Diabetes with Insulin Therapy	16.51	0.7574	<.0001	2.133
Malignant Ventricular Arrhythmia	0.47	1.2698	<.0001	3.560
Peripheral Vascular Disease	10.13	0.8916	<.0001	2.439
<b>Renal Failure</b>				
Creatinine < 1.2 mg/dL	70.46	— Reference —	—	1.000
Creatinine ≥ 1.2 and ≤ 1.5 mg/dL	19.32	0.5322	<.0001	1.703
Creatinine > 1.5 and ≤ 2.5 mg/dL	6.13	0.7628	<.0001	2.144
Creatinine > 2.5 mg/dL	0.92	0.8942	<.0001	2.445
Renal Dialysis	3.17	1.3660	<.0001	3.920
<b>Vessels</b>				
Left Main Disease	4.63	0.9857	<.0001	2.680
<b>Number of Vessels Diseased</b>				
Fewer than Two Vessels Diseased	54.51	— Reference —	—	1.000
Two Vessels Diseased	32.08	0.5714	<.0001	1.771
Three Vessels Diseased	13.41	0.6694	<.0001	1.953
<b>Sum of Risk Factors Squared</b>	—	-0.0440	<.0001	—

Intercept = -6.9598

C Statistic = 0.856

## Appendix 6

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### **2014-2016 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 2014-2016 time period are presented in the Appendix 6 table below. The interpretation of this table is similar to the interpretation of Appendices 1-5.

## Appendix 6

### Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2014-2016 (Emergency Cases)

Patient Risk Factors	Prevalence (%)	Regression Coefficient	P value	OR
<b>Demographic</b>				
Age	—	-0.0255	0.3526	—
Age Squared/ 100	—	0.0552	0.0054	—
Female Gender	27.69	0.4717	<.0001	1.603
Body Mass Index (BMI) < 22.0 kg/m <sup>2</sup>	6.41	0.5008	<.0001	1.650
<b>Hemodynamic Status</b>				
Non-Refractory Shock	2.47	1.9127	<.0001	6.771
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 50% or greater	50.13	— Reference —		1.000
Ejection Fraction less than 20%	1.36	1.7949	<.0001	6.019
Ejection Fraction 20-29%	6.87	1.0357	<.0001	2.817
Ejection Fraction 30-39%	14.27	0.6428	<.0001	1.902
Ejection Fraction 40-49%	27.37	0.2153	0.0454	1.240
Pre-Procedural MI				
STEMI within 24 hrs	69.20	0.7919	<.0001	2.207
<b>Comorbidities</b>				
Cerebrovascular Disease (not TIA only)	5.18	0.5968	<.0001	1.816
Congestive Heart Failure (CHF) (within 2 weeks)	5.56	0.5398	<.0001	1.716
Malignant Ventricular Arrhythmia	1.77	0.5284	0.0061	1.696
Peripheral Vascular Disease	4.95	0.4811	<.0001	1.618
Renal Failure				
Creatinine < 1.2 mg/dL	73.26	— Reference —		1.000
Creatinine ≥ 1.2 and ≤ 1.5 mg/dL	19.14	0.5333	<.0001	1.704
Creatinine > 1.5 and ≤ 2.0 mg/dL	4.44	1.0323	<.0001	2.807
Creatinine > 2.0 mg/dL	1.92	1.6415	<.0001	5.163
Renal Dialysis	1.24	1.7456	<.0001	5.729
<b>Vessels Diseased</b>				
Left Main Disease	2.96	0.6020	<.0001	1.826

Intercept = -6.1868

C Statistic = 0.850

## Appendix 7

### Risk Factors for TAVR In-Hospital/30-Day Mortality in New York State 2014-2016

Most of the significant pre-procedural risk factors for in-hospital/30-day mortality following TAVR in the 2014-2016 time period presented in the table that follows have been previously described.

Extensive Aortic Atherosclerosis and Hepatic Failure are interpreted the same way as CHF-Current in Appendix 1. The other risk factors in this model are interpreted as described in Appendices 1 – 6.

## Appendix 7

### Multivariable Risk Factor Equation for TAVR In-Hospital / 30-Day Deaths in New York State in 2014-2016.

Risk Factor	Prevalence %	Regression Coefficient	P-value	Odds Ratio
<b>Demographic</b>				
Age: Number of years greater than 70	—	0.0373	.0003	1.038
BSA, 0.1 m <sup>2</sup>	—	-0.8487	<.0001	—
BSA Squared, 0.01 m <sup>4</sup>	—	0.0198	<.0001	—
<b>Ventricular Function</b>				
Ejection Fraction <20 %	1.24	0.8360	.0305	2.307
<b>Comorbidities</b>				
Chronic Lung Disease, Severe	10.72	0.7010	<.0001	2.016
Congestive Heart Failure (CHF), Current (within 2 weeks)	51.34	0.4723	.0003	1.604
Extensive Aortic Atherosclerosis	2.36	0.6352	.0290	1.887
Hepatic Failure	0.20	1.7841	.0236	5.954
Peripheral Vascular Disease	22.36	0.3558	.0094	1.427
Renal Failure				
No Real Dialysis and Creatinine < 1.6 mg/dl				
Creatinine 1.6-2.0 mg/dl	10.26	0.4657	.0135	1.593
Creatinine ≥2.1 or Dialysis	9.70	0.9570	<.0001	2.604
<b>Vessels Diseased</b>				
Left Main Disease	2.27	0.9739	.0003	2.648

Intercept = 4.2058

C Statistic = 0.692

# NEW YORK STATE

## PERCUTANEOUS CORONARY INTERVENTION CENTERS

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**Albany Medical Center**  
New Scotland Avenue  
Albany, New York 12208

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

**Bassett Medical Center**  
Atwell Road  
Cooperstown, New York 13326

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

**BronxCare Health System**  
1650 Grand Concourse  
Bronx, New York 10456

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

**Brooklyn Hospital Center<sup>+++</sup>**  
121 DeKalb Avenue  
Brooklyn, New York 11201

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

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

**Crouse Hospital**  
736 Irving Avenue  
Syracuse, New York 13210

**Ellis Hospital**  
1101 Nott Street  
Schenectady, New York 12308

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

**Faxton-St. Luke's Healthcare  
(St. Luke's Division) \*\***  
1636 Champlin Avenue  
Utica, New York 13503

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

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

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

**Huntington Hospital\***  
270 Park Avenue  
Huntington, New York 11743

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

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

**Long Island Community Hospital**  
(previously Brookhaven Memorial Hospital)  
101 Hospital Road  
Patchogue, New York 11772

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

**Maimonides Medical Center**  
4802 Tenth Avenue  
Brooklyn, New York 11219

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

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

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

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

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

**Mount Sinai St. Luke's**

11-11 Amsterdam Avenue at 114th Street  
New York, New York 10025

**NY Presbyterian Brooklyn  
Methodist Hospital**

506 Sixth Street  
Brooklyn, New York 11215

**NY Presbyterian - Columbia  
Presbyterian Center**

161 Fort Washington Avenue  
New York, New York 10032

**NY Presbyterian Lawrence Hospital\***

55 Palmer Avenue  
Bronxville, New York 10708

**NY Presbyterian Queens**

56-45 Main Street  
Flushing, New York 11355

**NY Presbyterian Weill Cornell College**

525 East 68th Street  
New York, New York 10021

**NYU Hospitals Center**

550 First Avenue  
New York, New York 10016

**NYU Langone Hospital - Brooklyn**

(previously Lutheran Medical Center)  
150 55th Street  
Brooklyn, New York 11220

**NYU - Winthrop University Hospital**

259 First Street  
Mineola, New York 11501

**Niagara Falls Medical Center<sup>\*\*\*</sup>**

571 Tenth Street  
Niagara Falls, New York 14304

**North Shore University Hospital**

300 Community Drive  
Manhasset, New York 11030

**Olean General Hospital\***

515 Main Street  
Olean, New York 14760

**Orange Regional Medical Center\***

707 East Main Street  
Middletown, New York 10940

**Peconic Bay Medical Center<sup>\*\*\*</sup>**

1300 Roanoke Avenue  
Riverhead, New York 11901

**Richmond University Medical Center\***

355 Bard Avenue  
Staten Island, New York 10310

**Rochester General Hospital**

1425 Portland Avenue  
Rochester, New York 14621

**Samaritan Hospital\***

2215 Burdett Avenue  
Troy, New York 12180

**Saratoga Hospital\***

211 Church Street  
Saratoga Springs, New York 12866

**South Nassau Communities Hospital\***

One Healthy Way  
Oceanside, New York 11572

**Southampton Hospital<sup>\*\*\*</sup>**

240 Meeting House Lane  
Southampton, New York 11968

**Southside Hospital**

301 East Main Street  
Bayshore, New York 11706

**St. Barnabas Hospital\***

4422 3rd Avenue  
Bronx, New York 10457

**St. Catherine of Siena Medical Center\***

50 Route 25A  
Smithtown, New York 11787

**St. Elizabeth Medical Center**

2209 Genesee Street  
Utica, New York 13413

**St. Francis Hospital**

Port Washington Boulevard  
Roslyn, New York 11576

**St. Joseph's Hospital Health Center**

301 Prospect Avenue  
Syracuse, New York 13203

**St. Luke's Cornwall Hospital\***

70 Dubois Street  
Newburgh, New York 12550

**St. Peter's Hospital**

315 South Manning Boulevard  
Albany, New York 12208

**Staten Island University Hospital – North**

475 Seaview Avenue  
Staten Island, New York 10305

**Strong Memorial Hospital**

601 Elmwood Avenue  
Rochester, New York 14642

**The Unity Hospital of Rochester\***

1555 Long Pond Road  
Rochester, New York 14626



**UHS Wilson Medical Center**

33-57 Harrison Street  
Johnson City, New York 13790

**University Hospital at Stony Brook**

33 Research Way  
Stony Brook, New York 11794-8410

**University Hospital of Brooklyn**

450 Lenox Road  
Brooklyn, New York 11203

**Upstate University Hospital –  
State University of New York**

750 East Adams Street  
Syracuse, New York 13210

**UVM Health Network – Champlain Valley  
Physicians Hospital\***

75 Beekman Street  
Plattsburgh, New York 12901

**Vassar Brothers Medical Center**

45 Reade Place  
Poughkeepsie, New York 12601**Westchester  
Medical Center**

Grasslands Road  
Valhalla, New York 10595

**White Plains Hospital\***

41 East Post Road  
White Plains, New York 10601

\* Hospital performs PCI without cardiac surgery on-site

\*\* Hospital Closed or No Longer Performs PCI

†† Hospital started PCI after November 2016

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