

# **PERCUTANEOUS CORONARY INTERVENTIONS (PCI)**

in New York State  
2017-2019



**Department  
of Health**

March 2023, revised May 2023



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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.

Valvular heart disease is another common type of problem affecting the heart. With this condition, one or more of the valves in the heart may become stenotic (too narrow to allow enough blood to flow through the valve opening) or incompetent (cannot close tightly

enough to prevent the backflow of blood), causing the heart to work harder to pump blood or causing blood to back up in the lungs or lower body. There are several types of surgical options for valvular heart disease and, in recent years, a new technique for replacement of the aortic valve has been tested and approved for use in the United States under certain circumstances. This procedure, known as Transcatheter Aortic Valve Replacement (TAVR, also sometimes called Transcatheter Aortic Valve Implantation or TAVI), differs from traditional surgical valve replacement in that the replacement valve is delivered to the heart through a catheter rather than through a standard surgical incision. The procedure is performed collaboratively by cardiologists and cardiac surgeons.

The analyses contained in this report are based on the information collected on 157,140 patients who underwent PCI and the 14,945 patients who underwent TAVR in NYS hospitals and were discharged between December 1, 2016, and November 30, 2019. The analysis period for this report includes patients discharged in December 2016 but not those discharged in December 2019. 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 2019 cases includes patients discharged from December 1, 2018 through November 30, 2019. Analyses of risk-adjusted mortality rates and associated risk factors for all PCI and TAVR cases, non-emergency PCI cases (which represent the majority of PCI 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 30 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 and TAVR;
- 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, 2016, and November 30, 2019, provided by all 65 non-federal hospitals in NYS where PCI was performed. In total there were 158,964 PCI procedures performed during this time period. The annual number of PCI discharges was: 51,979 in 2017, 52,055 in 2018 and 54,930 in 2019. 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 371 records excluded from the 2017-2019 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 45 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 1,028 cases with pre-procedure refractory cardiogenic shock excluded from analysis. In addition, 380 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 (now called refractory 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 54. Patients in refractory 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 1,028 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 these cases should be excluded from analyses. The specific criteria for exclusion under this policy can be found on Page 56.

While there were 54,276 PCI cases included in the mortality analysis for 2019 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 2,442 cases. Another 362 patients were excluded because they died in the same admission as their index PCI, so readmission was impossible. Three hundred and fifty 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 2,430 exclusions. In addition, 237 patients were excluded due to being discharged Against Medical Advice and 38 patients were deleted due to overlapping dates between index and subsequent hospitalizations.

In total, the number of exclusions was 5,859, leaving 48,417 cases to be examined for 30-day readmission.

This report also includes information on the outcomes for patients undergoing TAVR. In total, there were 14,963 TAVR procedures performed in NYS during the three year period. As with PCI, some TAVR cases had to be excluded from analysis. There were 10 cases excluded because the patient resided outside the United States and could not be followed after discharge; 1 case was excluded because it occurred within thirty days of cardiac surgery and resulted in death, and 7 cases were excluded due to the pre-TAVR risk factor of refractory cardiogenic shock. In total, the number of exclusions for TAVR was 18, leaving 14,945 cases for analysis.

#### **NOTE ON HOSPITALS PERFORMING PCI and TAVR DURING 2017–2019 PERIOD**

Several hospitals began performing PCI during the 2017-2019 time period. The hospital name and the month of the first PCI performed are as follows: The Brooklyn Hospital Center – Downtown – March 2017; Niagara Falls Memorial Medical Center – April 2017; Stony Brook Southampton Hospital – September 2017; Peconic Bay Medical Center – October 2017.

With respect to TAVR procedures, please note that some hospitals listed in Table 4 began performing the procedure during the 2017-2019 reporting period and the number of cases listed does not represent a full three years of program activity. Other hospitals may have begun performing the procedure more recently than the timeframe covered by this report.

# 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 Deaths and 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 reported to the Department of Health in the Percutaneous Coronary Interventions Reporting System (PCIRS) for PCI patients and the Cardiac Surgery Reporting System (CSRS) for cardiac surgery and TAVR patients.

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 during the same acute care admission as PCI or TAVR, even if they lived for more than thirty days after the procedure. Patients discharged to hospice care who expire within 30-days of going to hospice are also analyzed as an in-hospital mortality. 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 unplanned admission to a NYS non-federal hospital within 30 days of discharge from the index hospitalization. Unplanned readmissions are identified using criteria published by the Center for Medicare and Medicaid Services. Any non-staged PCI within 30 days of discharge is counted as a readmission, even if the second procedure is technically performed on an outpatient basis.

Admission for staged PCI, TAVR or cardiac surgery is not counted in this analysis as a readmission. Staged PCI, TAVR, or cardiac surgery 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 cardiac surgery or TAVR are much more rare, but the definition of staging is similar.

There were 1,452 staged PCIs and 159 staged cardiac surgeries or TAVR procedures, that were not counted as readmissions. It should also be noted that if a patient is readmitted in 2019 but not discharged from that hospital stay until the following calendar year, this readmission would not be included in analysis due to data availability limitations.

### **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.

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.

### **Predicting Patient Mortality Rates for Hospitals and Cardiologists**

The mortality rate for each hospital is also predicted using the statistical model. This is accomplished by adding the predicted probabilities of death for each of the hospital's patients and dividing by the number of patients at that hospital. The resulting rate is an estimate of what the hospital'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 at that hospital who died divided by the hospital's total number of PCI patients. The process of determining a cardiologist's predicted mortality rate is exactly the same as described above for hospitals.

### **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 (hospital's or cardiologist'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 (1.16 percent in-hospital/30-day in 2019) 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 provider's EMR and RAMR.

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

If the RAMR is significantly lower than the statewide mortality rate, the provider has a better performance than the state as a whole; if the RAMR is significantly higher than the statewide mortality rate, the provider 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 a sample of patient medical records to verify 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 (8.83 percent in 2019).

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 hospital'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 TAVR) and cardiologists (who perform PCI and TAVR) 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 (1.16 percent in-hospital/30-day mortality for all PCI patients discharged in 2019).

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 (8.83 percent 30-day readmission rate for all PCI patients discharged in 2019).

**Confidence intervals** indicate which providers had significantly more or fewer deaths or readmissions than expected given the risk factors of their patients. Providers with significantly higher rates than expected after adjusting for risk are those with confidence intervals entirely above the statewide rate. Providers 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.



## 2019 HOSPITAL OUTCOMES FOR PCI

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Table 1 and Figures 1 and 2 present the PCI mortality results for the 65 non-federal hospitals performing PCI in NYS in 2019. The table contains, for each hospital, the number of PCIs resulting in 2019 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 non-refractory cardiogenic shock, or patients who experienced a heart attack or cardiac arrest 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 (82.59 percent in 2019).

The overall in-hospital/30-day OMR for the 54,276 PCIs included in this 2019 analysis was 1.16 percent. Observed mortality rates ranged from 0.00 percent to 3.97 percent. The range in EMRs, which measure patient severity of illness, was between 0.70 percent and 2.25 percent. The RAMRs, which measure hospital performance, range from 0.00 percent to 3.07 percent. Based on confidence intervals for RAMRs, two hospitals (Arnot Ogden Medical Center in Elmira and NY Presbyterian at Columbia in Manhattan) had RAMRs that were significantly higher than the statewide average. Three hospitals (Lenox Hill Hospital in Manhattan, NYU-Langone Hospital - Brooklyn, and St. Francis Hospital in Roslyn) had RAMRs that were significantly lower than the statewide average.

The last column of Table 1 presents the hospital RAMRs for non-emergency cases (based on the statistical model presented in Appendix 2). As presented in the last row, the statewide in-hospital/30-day mortality rate for non-emergency cases is 0.71 percent. The range of RAMRs was from 0.00 percent to 2.05 percent. One hospital (NY Presbyterian at Columbia in Manhattan) had a RAMR that was significantly higher than the statewide average. One hospital (Lenox Hill Hospital in Manhattan) 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 2019 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 2019 PCI discharges was 0.69 percent for the 54,276 patients included in Table 1. For the non-emergency analysis, there were 44,827 patients with an in-hospital mortality rate of 0.34 percent.

Table 2 presents the PCI 30-day readmission results for the 65 non-federal hospitals performing PCI in NYS in 2019. The table contains, for each hospital, the number of PCIs resulting in 2019 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 48,417 PCIs included in this 2019 analysis was 8.83 percent. Observed readmission rates ranged from 4.49 percent to 16.67 percent. The range in ERRs, which measure patient severity of illness, was between 6.83 percent and 11.30 percent. The RARRs, which measure hospital performance, range from 4.85 percent to 15.63 percent.

Based on confidence intervals for RARRs, seven hospitals (BronxCare Health System, Brookdale University Hospital Medical Center in Brooklyn, Good Samaritan University Hospital in West Islip, Montefiore Medical Center - Moses Division in the Bronx, Mount Sinai Morningside in Manhattan, South Shore University Hospital in Bayshore, and St. Barnabas Hospital in the Bronx) had RARRs that were significantly higher than the statewide average. Seven hospitals (Crouse Hospital in Syracuse, Maimonides Medical Center in Brooklyn, Mount Sinai Beth Israel in Manhattan, Mount Sinai Hospital in Manhattan, NY Presbyterian Westchester in Bronxville, Strong Memorial Hospital in Rochester, and UVM Health Network Champlain Valley Physicians Hospital in Plattsburgh) 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, 2019 Discharges. (Listed Alphabetically by Hospital)

Hospital	Cases	Deaths	OMR	All Cases		95% CI for RAMR	Non-Emergency	
				EMR	RAMR		Cases	RAMR
Albany Med. Ctr	761	10	1.31	1.28	1.19	(0.57, 2.18)	612	0.84
Arnot Ogden Med Ctr	302	12	3.97	1.84	2.49 *	(1.29, 4.35)	199	1.88
Bassett Medical Center	493	3	0.61	1.45	0.48	(0.10, 1.41)	391	0.41
Bellevue Hospital Ctr	395	6	1.52	1.96	0.90	(0.33, 1.95)	298	0.63
BronxCare Health System	251	2	0.80	1.15	0.80	(0.09, 2.88)	148	0.73
Brookdale Univ Hosp MC	200	2	1.00	1.17	0.99	(0.11, 3.58)	132	0.00
Brooklyn Hosp.Downtown	140	2	1.43	0.97	1.71	(0.19, 6.17)	110	0.00
Buffalo General Med Ctr	1498	20	1.34	1.19	1.30	(0.79, 2.01)	1107	0.71
Cayuga Med Ctr Ithaca	112	1	0.89	1.52	0.68	(0.01, 3.76)	60	1.58
Crouse Hospital	388	9	2.32	1.33	2.02	(0.92, 3.84)	292	1.34
Ellis Hospital	527	10	1.90	1.48	1.48	(0.71, 2.72)	331	0.70
Elmhurst Hospital Ctr	416	3	0.72	1.24	0.67	(0.14, 1.97)	277	0.58
Garnet Health Med Ctr	866	7	0.81	0.89	1.05	(0.42, 2.17)	699	0.51
Glens Falls Hospital	170	0	0.00	1.66	0.00	(0.00, 1.50)	94	0.00
Good Sam - Suffern	635	8	1.26	1.65	0.88	(0.38, 1.74)	504	0.76
Good Sam Univ Hosp	1231	13	1.06	0.81	1.50	(0.80, 2.56)	1141	0.95
Huntington Hospital	426	4	0.94	1.10	0.98	(0.26, 2.51)	314	0.40
Jamaica Hosp Med Ctr	293	5	1.71	2.25	0.88	(0.28, 2.04)	130	2.05
Lenox Hill Hospital	1990	6	0.30	0.76	0.46 **	(0.17, 1.00)	1875	0.22 **
Long Island Comm. Hosp.	449	3	0.67	1.07	0.72	(0.14, 2.11)	356	0.70
Long Island Jewish MC	698	5	0.72	1.03	0.80	(0.26, 1.87)	583	0.79
Maimonides Medical Ctr	1320	15	1.14	1.85	0.71	(0.40, 1.17)	1043	0.66
Mercy Hospital-Buffalo	1085	23	2.12	1.47	1.67	(1.06, 2.50)	774	1.09
Montefiore - Moses	1058	7	0.66	0.90	0.85	(0.34, 1.75)	904	0.49
Montefiore - Weiler	904	10	1.11	1.20	1.06	(0.51, 1.96)	741	0.96
Montefiore St. Lukes	394	7	1.78	1.41	1.45	(0.58, 2.99)	306	0.53
Mount Sinai Beth Israel	1427	11	0.77	0.74	1.20	(0.60, 2.16)	1295	0.76
Mount Sinai Hospital	3666	18	0.49	0.75	0.76	(0.45, 1.19)	3536	0.43
Mount Sinai Morningside	1412	11	0.78	1.17	0.77	(0.38, 1.38)	1279	0.41
Mount Sinai South Nassau	637	10	1.57	1.28	1.42	(0.68, 2.61)	461	0.83
NYP Brooklyn Methodist	1069	16	1.50	1.04	1.66	(0.95, 2.70)	983	0.60
NYP Columbia Presby.	2182	37	1.70	1.02	1.92 *	(1.35, 2.65)	2040	1.21 *
NYP NY Weill Cornell	825	10	1.21	1.80	0.78	(0.37, 1.43)	702	0.60
NYP Queens	768	10	1.30	1.19	1.26	(0.61, 2.32)	607	0.59
NYP Westchester	374	5	1.34	1.02	1.52	(0.49, 3.55)	321	1.34
NYU Hospitals Center	2484	12	0.48	0.70	0.79	(0.41, 1.39)	2343	0.41
NYU Langone Hosp-Brooklyn	385	1	0.26	1.69	0.18 **	(0.00, 0.99)	269	0.39
NYU Winthrop Hospital	1063	14	1.32	1.19	1.28	(0.70, 2.15)	906	0.36
Niagara Falls Memorial	159	1	0.63	1.09	0.67	(0.01, 3.71)	110	0.00
North Shore Univ Hosp	2428	29	1.19	1.09	1.26	(0.85, 1.81)	2061	0.76
Olean General Hosp.	143	1	0.70	1.49	0.54	(0.01, 3.01)	66	0.00
Peconic Bay Med Ctr	178	4	2.25	0.85	3.07	(0.83, 7.86)	121	0.00
Richmond Univ Med Cntr	161	3	1.86	1.06	2.04	(0.41, 5.95)	106	0.00
Rochester General Hosp	1261	20	1.59	1.10	1.66	(1.01, 2.56)	1010	1.30
Samaritan Hospital	340	5	1.47	0.80	2.12	(0.68, 4.95)	248	1.98
Saratoga Hospital	250	8	3.20	1.69	2.18	(0.94, 4.30)	163	0.82
South Shore Univ. Hosp	930	12	1.29	0.78	1.92	(0.99, 3.35)	819	0.88
St. Barnabas Hospital	117	2	1.71	1.33	1.49	(0.17, 5.36)	76	0.91
St. Catherine of Siena	246	1	0.41	0.88	0.53	(0.01, 2.97)	199	0.45
St. Elizabeth Med Ctr	822	16	1.95	1.46	1.54	(0.88, 2.49)	629	1.27
St. Francis Hospital	3078	21	0.68	1.17	0.67 **	(0.42, 1.03)	2839	0.47
St. Josephs Hospital	2124	27	1.27	1.21	1.22	(0.80, 1.77)	1668	0.87
St. Peter's Hospital	850	14	1.65	1.19	1.60	(0.87, 2.69)	647	1.44
Staten Island Univ Hosp	940	4	0.43	0.96	0.51	(0.14, 1.31)	802	0.44
Stony Brook Southampton	99	1	1.01	1.57	0.74	(0.01, 4.14)	64	0.00
Strong Memorial Hosp	1113	20	1.80	1.49	1.39	(0.85, 2.15)	695	0.93
UHS Wilson Med Ctr	716	9	1.26	1.34	1.08	(0.49, 2.06)	557	0.72
UVM Health Network CVPH	736	12	1.63	1.18	1.60	(0.83, 2.80)	547	1.11
Unity Hospital	309	6	1.94	1.46	1.54	(0.56, 3.35)	223	0.43
Univ Hosp at Downstate	284	8	2.82	2.20	1.48	(0.64, 2.91)	177	0.00
Univ. Hosp-Stony Brook	1438	16	1.11	1.31	0.98	(0.56, 1.59)	1183	0.71
Univ. Hosp-Upstate	188	4	2.13	1.47	1.67	(0.45, 4.28)	103	0.86
Vassar Bros. Med Ctr	1007	20	1.99	1.48	1.55	(0.95, 2.39)	758	0.71
Westchester Med Ctr	521	10	1.92	1.81	1.23	(0.59, 2.25)	346	0.78
White Plains Hospital	544	5	0.92	0.95	1.12	(0.36, 2.62)	447	0.63
<b>Statewide Total</b>	<b>54276</b>	<b>627</b>	<b>1.16</b>				<b>44827</b>	<b>0.71</b>

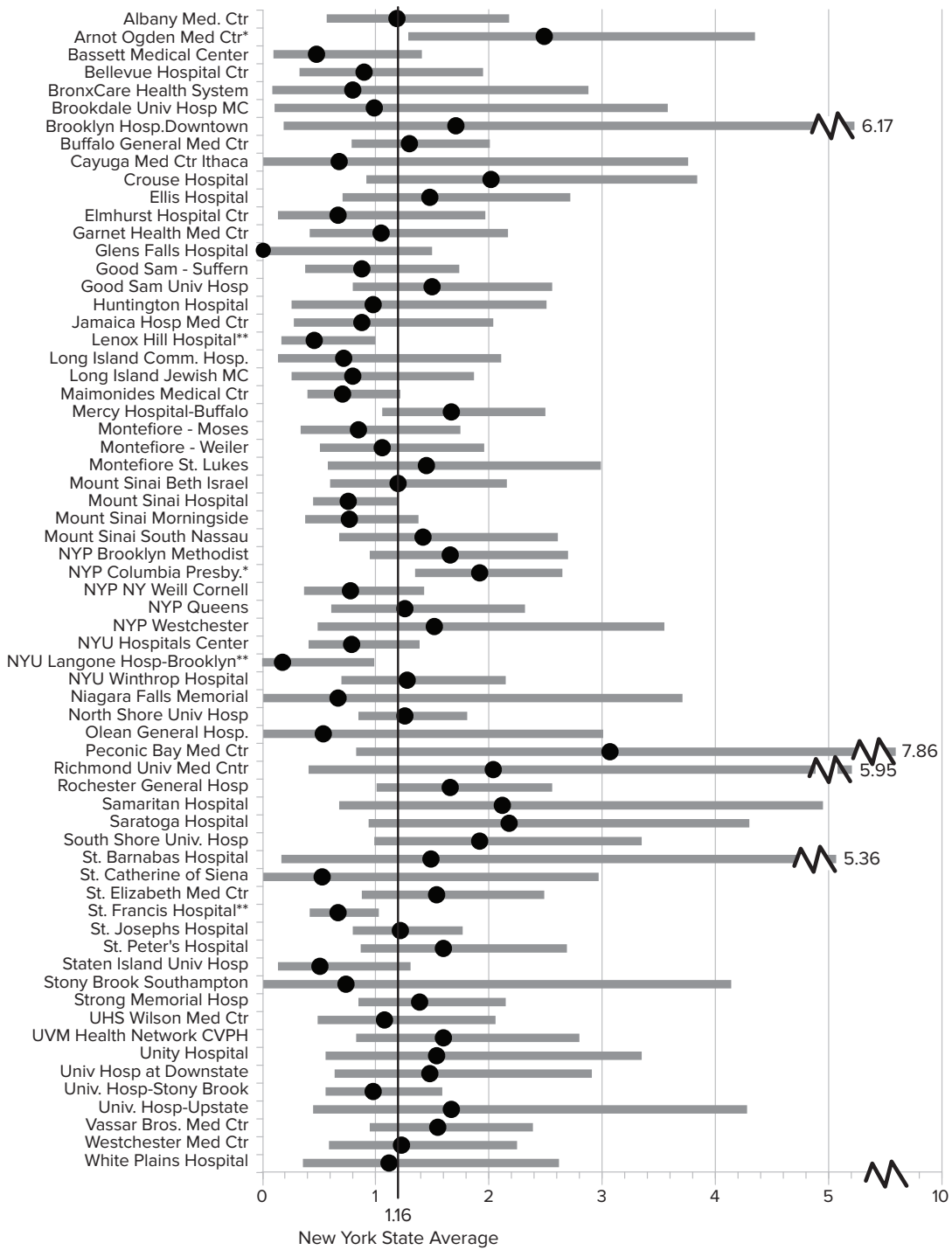
\*Risk-adjusted mortality rate significantly higher than statewide rate based on 95 percent confidence interval.

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



# Figure 1

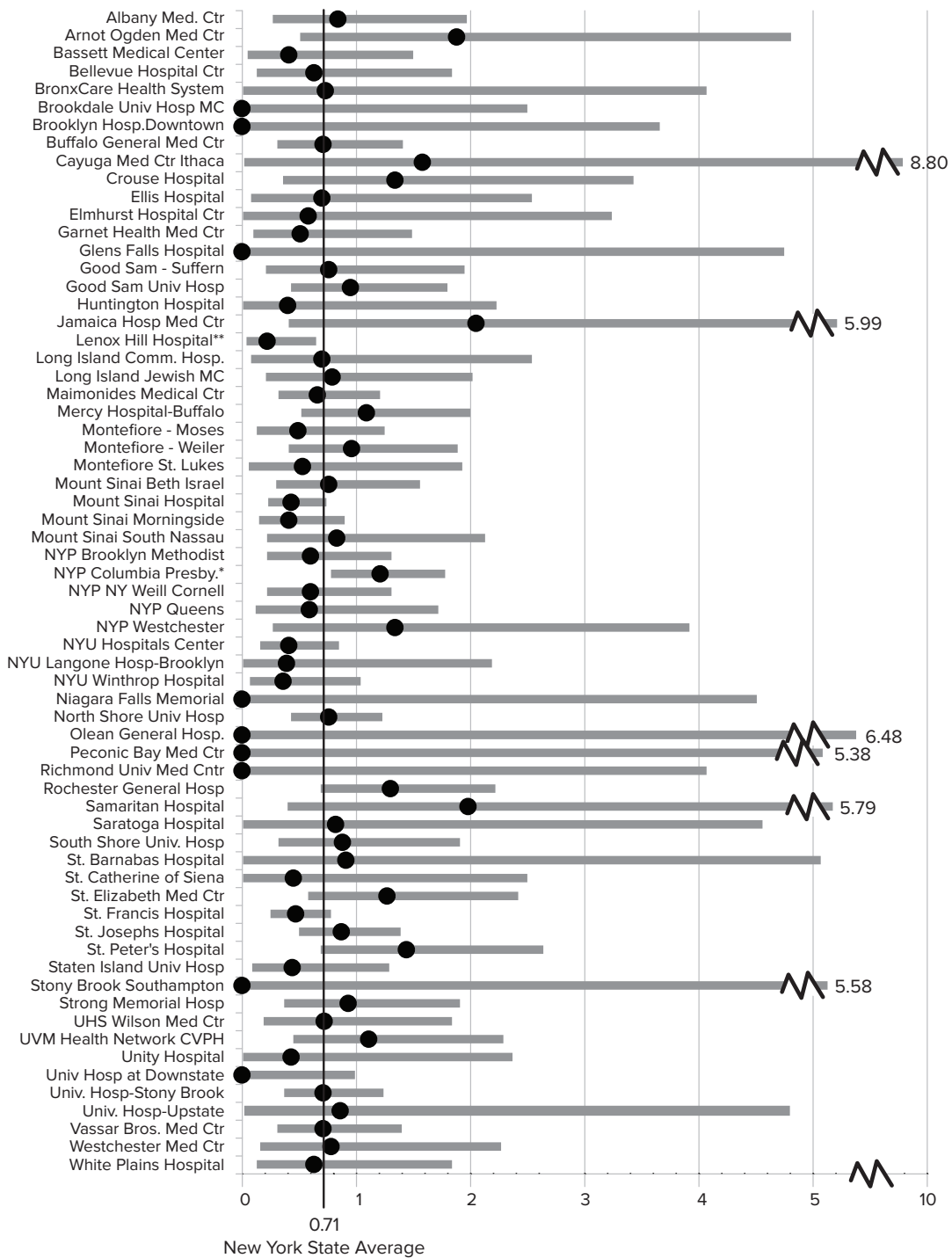
## In-Hospital/30-Day Risk-Adjusted Mortality Rates for PCI in New York State, 2019 Discharges (All Cases)



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, 2019 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, 2019

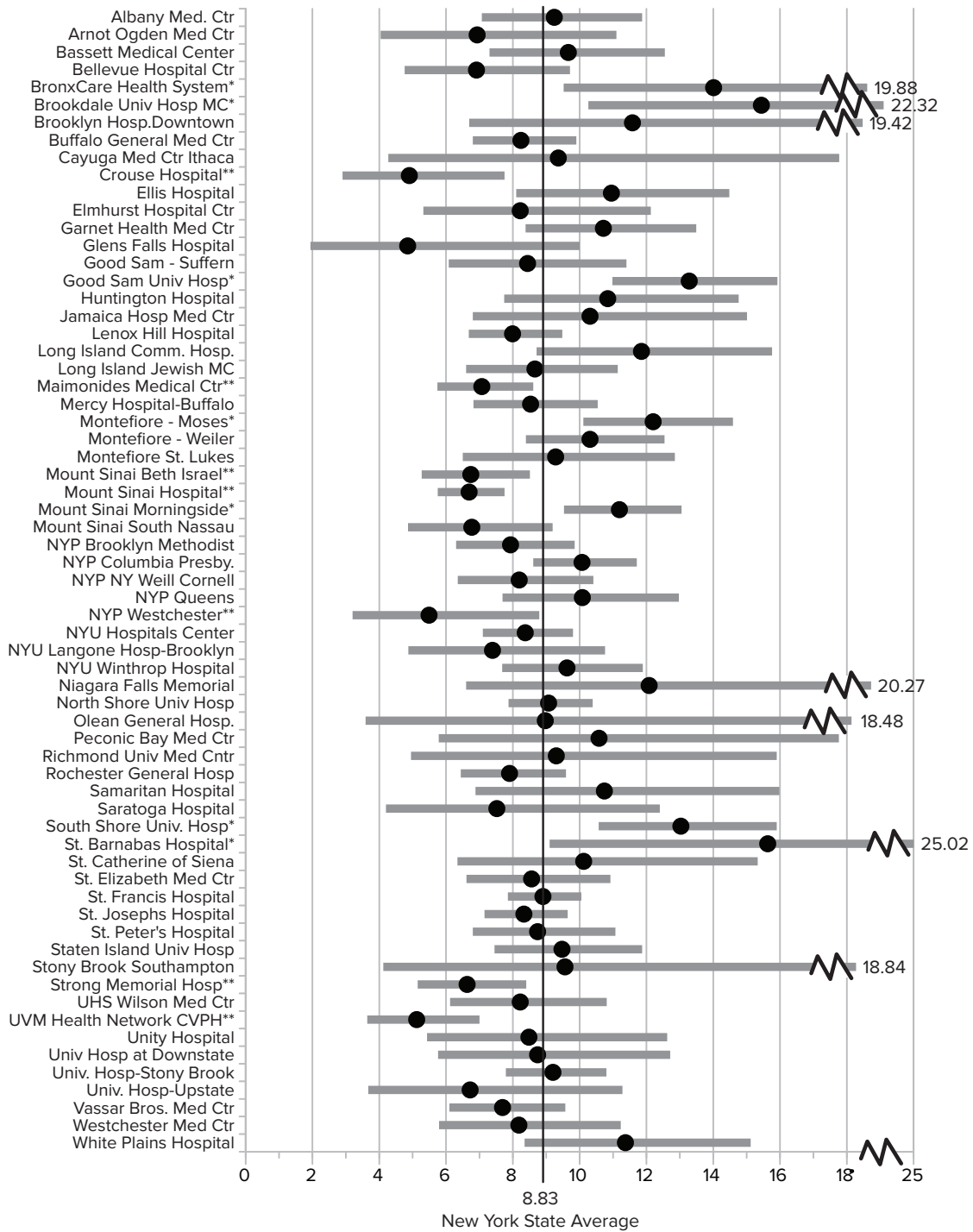
Hospital	Cases	Readmissions	ORR	All Cases		95% CI for RARR
				ERR	RARR	
Albany Med. Ctr	672	61	9.08	8.67	9.24	(7.07, 11.87)
Arnot Ogden Med Ctr	258	17	6.59	8.39	6.93	(4.04, 11.10)
Bassett Medical Center	460	56	12.17	11.12	9.66	(7.30, 12.55)
Bellevue Hospital Ctr	373	33	8.85	11.30	6.91	(4.76, 9.71)
BronxCare Health System	211	31	14.69	9.26	14.01*	(9.52, 19.88)
Brookdale Univ Hosp MC	182	28	15.38	8.79	15.44*	(10.3, 22.32)
Brooklyn Hosp.Downtown	124	14	11.29	8.61	11.58	(6.32, 19.42)
Buffalo General Med Ctr	1375	114	8.29	8.88	8.24	(6.80, 9.90)
Cayuga Med Ctr Ithaca	104	9	8.65	8.16	9.36	(4.27, 17.77)
Crouse Hospital	369	18	4.88	8.78	4.90**	(2.90, 7.75)
Ellis Hospital	487	49	10.06	8.11	10.95	(8.10, 14.48)
Elmhurst Hospital Ctr	375	25	6.67	7.16	8.22	(5.32, 12.13)
Garnet Health Med Ctr	759	72	9.49	7.82	10.71	(8.38, 13.49)
Glens Falls Hospital	156	7	4.49	8.16	4.85	(1.94, 10.00)
Good Sam - Suffern	509	42	8.25	8.63	8.44	(6.08, 11.40)
Good Sam Univ Hosp	1123	117	10.42	6.92	13.28*	(11.0, 15.92)
Huntington Hospital	381	40	10.50	8.55	10.84	(7.74, 14.76)
Jamaica Hosp Med Ctr	269	27	10.04	8.59	10.31	(6.80, 15.01)
Lenox Hill Hospital	1847	131	7.09	7.84	7.99	(6.68, 9.48)
Long Island Comm. Hosp.	418	47	11.24	8.38	11.85	(8.71, 15.76)
Long Island Jewish MC	678	60	8.85	9.03	8.66	(6.60, 11.14)
Maimonides Medical Ctr	1251	98	7.83	9.79	7.07**	(5.74, 8.61)
Mercy Hospital-Buffalo	998	86	8.62	8.92	8.53	(6.82, 10.54)
Montefiore - Moses	885	120	13.56	9.81	12.20*	(10.1, 14.59)
Montefiore - Weiler	816	100	12.25	10.49	10.31	(8.39, 12.54)
Montefiore St. Lukes	344	36	10.47	9.96	9.28	(6.50, 12.85)
Mount Sinai Beth Israel	1241	71	5.72	7.49	6.74**	(5.27, 8.51)
Mount Sinai Hospital	2873	179	6.23	8.22	6.69**	(5.75, 7.75)
Mount Sinai Morningside	1173	162	13.81	10.90	11.19*	(9.53, 13.05)
Mount Sinai South Nassau	574	41	7.14	9.31	6.77	(4.86, 9.19)
NYP Brooklyn Methodist	995	81	8.14	9.06	7.93	(6.30, 9.85)
NYP Columbia Presby.	1599	169	10.57	9.27	10.07	(8.61, 11.71)
NYP NY Weill Cornell	683	67	9.81	10.57	8.19	(6.35, 10.41)
NYP Queens	716	60	8.38	7.34	10.08	(7.69, 12.97)
NYP Westchester	341	17	4.99	8.02	5.49**	(3.20, 8.79)
NYU Hospitals Center	2207	153	6.93	7.31	8.37	(7.10, 9.80)
NYU Langone Hosp-Brooklyn	361	27	7.48	8.93	7.39	(4.87, 10.76)
NYU Winthrop Hospital	997	85	8.53	7.83	9.62	(7.68, 11.89)
Niagara Falls Memorial	142	14	9.86	7.21	12.08	(6.60, 20.27)
North Shore Univ Hosp	2257	206	9.13	8.89	9.07	(7.87, 10.39)
Olean General Hosp.	78	7	8.97	8.83	8.97	(3.59, 18.48)
Peconic Bay Med Ctr	171	14	8.19	6.83	10.58	(5.78, 17.76)
Richmond Univ Med Cntr	147	13	8.84	8.39	9.30	(4.95, 15.90)
Rochester General Hosp	1190	102	8.57	9.57	7.90	(6.44, 9.59)
Samaritan Hospital	280	24	8.57	7.04	10.74	(6.88, 15.98)
Saratoga Hospital	215	15	6.98	8.19	7.52	(4.20, 12.40)
South Shore Univ. Hosp	846	97	11.47	7.77	13.03*	(10.6, 15.90)
St. Barnabas Hospital	102	17	16.67	9.41	15.63*	(9.10, 25.02)
St. Catherine of Siena	229	22	9.61	8.38	10.12	(6.34, 15.33)
St. Elizabeth Med Ctr	751	65	8.66	8.92	8.56	(6.61, 10.92)
St. Francis Hospital	2787	259	9.29	9.22	8.90	(7.85, 10.05)
St. Josephs Hospital	2005	179	8.93	9.46	8.33	(7.15, 9.64)
St. Peter's Hospital	798	69	8.65	8.73	8.74	(6.80, 11.07)
Staten Island Univ Hosp	876	75	8.56	7.98	9.47	(7.45, 11.87)
Stony Brook Southampton	85	8	9.41	8.69	9.56	(4.12, 18.84)
Strong Memorial Hosp	1062	68	6.40	8.53	6.63**	(5.15, 8.40)
UHS Wilson Med Ctr	632	51	8.07	8.66	8.22	(6.12, 10.81)
UVM Health Network CVPH	702	39	5.56	9.58	5.12**	(3.64, 7.00)
Unity Hospital	285	24	8.42	8.77	8.48	(5.43, 12.62)
Univ Hosp at Downstate	260	27	10.38	10.49	8.74	(5.76, 12.71)
Univ. Hosp-Stony Brook	1315	150	11.41	10.94	9.20	(7.79, 10.80)
Univ. Hosp-Upstate	174	14	8.05	10.56	6.72	(3.67, 11.28)
Vassar Bros. Med Ctr	919	80	8.71	9.99	7.69	(6.10, 9.57)
Westchester Med Ctr	464	38	8.19	8.83	8.18	(5.79, 11.23)
White Plains Hospital	461	47	10.20	7.91	11.37	(8.35, 15.12)
<b>Statewide Total</b>	<b>48417</b>	<b>4274</b>	<b>8.83</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, 2019 Discharges (All Cases)



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

## 2017-2019 HOSPITAL DATA FOR PCI AND TAVR

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Table 3 provides the number of PCIs, the in-hospital/30-day OMR and RAMR for 2017-2019 for each of three types of PCI patients in the 65 hospitals performing PCI during the time period. The three types of patients are: all patients, non-emergency patients and emergency patients (patients in non-refractory cardiogenic shock, or patients who experienced a cardiac arrest or 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 2017-2019 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 0.24 percent to 3.29 percent, and the RAMRs ranged from 0.29 percent to 3.08 percent. Nine hospitals (Albany Medical Center, Arnot Ogden Medical Center in Elmira, NY Presbyterian at Columbia in Manhattan, Peconic Bay Medical Center in Riverhead, Rochester General Medical Center, Samaritan Hospital in Troy, St. Elizabeth Medical Center in Utica, Unity Hospital in Rochester, and University Hospital - Upstate in Syracuse) had RAMRs that were significantly higher than the statewide rate. Six hospitals (Bassett Medical Center in Cooperstown, Lenox Hill Hospital in Manhattan, Maimonides Medical Center in Brooklyn, Mount Sinai Hospital in Manhattan, NY Presbyterian at Weill Cornell in Manhattan, and St. Francis Hospital in Roslyn) had RAMRs that were significantly lower than the statewide rate. It should be noted that hospitals are more likely to have results that show a statistically significant difference from the statewide rate when three years of data are used than when one year of data is used because the three-year volumes are higher.

Table 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 82.37 percent of cases for the period 2017-2019. The statewide in-hospital/30-day mortality rate for the 129,442 non-emergency cases during the 3-year period was 0.79 percent. Observed mortality rates for this group of patients ranged from 0.00 percent to 2.14 percent and the RAMRs ranged from 0.00 to 2.38 percent. Five hospitals (Albany Medical Center, Montefiore at St. Luke's in Newburgh, NY Presbyterian at Columbia in Manhattan, Samaritan Hospital in Troy and St. Elizabeth Medical Center in Utica) had RAMRs that were significantly higher than the statewide rate. Three hospitals (Lenox Hill Hospital in Manhattan, Maimonides Medical Center in Brooklyn, and Mount Sinai Hospital in Manhattan) had RAMRs that were significantly lower than the statewide average for non-emergency cases.

The last three columns in Table 3 present data on emergency cases based on the model in Appendix 6. Emergency cases represented 17.63 percent of cases for the period 2017-2019. The statewide in-hospital/30-day mortality rate for the 27,698 emergency PCI cases during the 3-year period was 3.24 percent. Observed mortality rates for this group ranged from 0.28 percent to 6.89 percent and the RAMRs ranged from 0.35 percent to 8.86 percent. Three hospitals (Albany Medical Center, NY Presbyterian Brooklyn Methodist Hospital, and Strong Memorial Hospital in Rochester) had RAMRs that were significantly above the statewide average for emergency cases. Six hospitals (Jamaica Hospital Medical Center, Long Island Jewish Medical Center in New Hyde Park, Maimonides Medical Center in Brooklyn, NY Presbyterian at Weill Cornell in Manhattan, NYU Langone Hospital - Brooklyn, and Staten Island University Hospital) 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 157,140 cases included in Table 3 was 0.70 percent. The in-hospital mortality rate was 0.37 percent for the 129,442 non-emergency cases and 2.26 percent for the 27,698 emergency cases. As stated above, all cases with shock and hypoxic brain injury exclusion criteria discharged in 2017-2019 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 30 hospitals performing TAVR during the 2017-2019 discharge period. The table contains, for each hospital, the number of TAVR procedures resulting in 2017-2019 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 2017-2019 reporting period and the number of cases listed does not represent a full three year's program activity. Other hospitals may 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 14,945 TAVR procedures performed at the 30 hospitals was 2.22 percent. The OMRs ranged from 0.00 percent to 4.76 percent. The range of EMRs, which measure patient severity of illness, was 1.41 percent to 2.80 percent.

The RAMRs, which are used to measure performance, ranged from 0.00 percent to 4.76 percent. Two hospitals (Albany Medical Center and Vassar Brothers Medical Center in Poughkeepsie) had RAMRs that were statistically higher than the statewide rate. One hospital (Lenox Hill Hospital 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, 2017-2019 Discharges

Hospital	All Cases			Non-Emergency Cases			Emergency Cases		
	Cases	OMR	RAMR	Cases	OMR	RAMR	Cases	OMR	RAMR
Albany Med. Ctr	2203	2.77	2.29 *	1749	1.89	1.61 *	454	6.17	5.80 *
Arnot Ogden Med Ctr	865	2.66	1.96 *	555	1.26	1.32	310	5.16	5.12
Bassett Medical Center	1530	0.92	0.72 **	1217	0.74	0.58	313	1.60	1.54
Bellevue Hospital Ctr	1179	2.54	1.46	902	1.77	1.10	277	5.05	3.31
BronxCare Health System	675	0.59	0.60	416	0.48	0.56	259	0.77	1.23
Brookdale Univ Hosp MC	598	1.84	1.52	398	1.26	0.85	200	3.00	4.33
Brooklyn Hosp.Downtown	389	0.77	0.93	304	0.00	0.00	85	3.53	5.48
Buffalo General Med Ctr	4350	1.31	1.18	3102	0.61	0.59	1248	3.04	3.54
Cayuga Med Ctr Ithaca	372	2.42	1.93	188	1.06	1.23	184	3.80	5.24
Crouse Hospital	1182	1.95	1.69	919	1.09	1.15	263	4.94	4.26
Ellis Hospital	1636	1.89	1.52	1055	0.76	0.78	581	3.96	4.29
Elmhurst Hospital Ctr	1290	0.93	0.87	853	0.23	0.43	437	2.29	2.45
Garnet Health Med Ctr	2236	0.89	1.03	1745	0.57	0.64	491	2.04	2.87
Glens Falls Hospital	571	0.88	0.69	345	0.87	1.18	226	0.88	1.01
Good Sam - Suffern	1707	1.35	1.00	1301	0.69	0.65	406	3.45	2.79
Good Sam Univ Hosp	3661	0.87	1.33	3405	0.79	1.06	256	1.95	1.97
Huntington Hospital	1539	1.04	1.26	1216	0.74	0.99	323	2.17	2.67
Jamaica Hosp Med Ctr	864	1.27	0.82	414	1.21	1.22	450	1.33	1.41 **
Lenox Hill Hospital	5557	0.38	0.61 **	5234	0.25	0.37 **	323	2.48	1.73
Long Island Comm. Hosp.	1296	0.93	1.09	983	0.71	1.04	313	1.60	1.80
Long Island Jewish MC	2046	0.59	0.74	1688	0.65	0.80	358	0.28	0.35 **
Maimonides Medical Ctr	3935	1.19	0.74 **	3145	0.79	0.51 **	790	2.78	1.83 **
Mercy Hospital-Buffalo	3305	1.72	1.56	2468	1.18	1.09	837	3.35	3.89
Montefiore - Moses	3254	0.83	0.96	2813	0.50	0.51	441	2.95	3.41
Montefiore - Weiler	2382	1.43	1.26	1901	1.32	1.04	481	1.87	2.17
Montefiore St. Lukes	1088	2.11	1.89	841	1.66	1.45 *	247	3.64	4.20
Mount Sinai Beth Israel	4416	0.70	1.00	4024	0.42	0.55	392	3.57	3.46
Mount Sinai Hospital	10347	0.55	0.85 **	9955	0.42	0.50 **	392	3.83	3.06
Mount Sinai Morningside	3284	1.00	0.92	2938	0.65	0.51	346	4.05	3.22
Mount Sinai South Nassau	1714	1.52	1.32	1251	0.80	0.75	463	3.46	3.69
NYP Brooklyn Methodist	3241	1.30	1.59	2943	0.75	0.82	298	6.71	5.54 *
NYP Columbia Presby.	6478	1.36	1.56 *	6115	1.03	1.03 *	363	6.89	3.97
NYP NY Weill Cornell	2587	0.93	0.65 **	2199	0.68	0.49	388	2.32	1.37 **
NYP Queens	2205	1.00	1.18	1746	0.63	1.01	459	2.40	2.49
NYP Westchester	968	1.03	1.07	777	0.51	0.62	191	3.14	3.23
NYU Hospitals Center	6634	0.54	0.97	6224	0.37	0.57	410	3.17	3.25
NYU Langone Hosp-Brooklyn	977	0.92	0.66	669	0.75	0.88	308	1.30	1.06 **
NYU Winthrop Hospital	3117	1.22	1.19	2600	0.62	0.65	517	4.26	3.48
Niagara Falls Memorial	424	0.24	0.29	309	0.00	0.00	115	0.87	1.23
North Shore Univ Hosp	7214	1.07	1.16	6146	0.73	0.72	1068	3.00	3.23
Olean General Hosp.	446	1.57	1.08	222	0.45	0.48	224	2.68	3.07
Peconic Bay Med Ctr	339	2.36	3.08 *	229	0.87	1.60	110	5.45	8.86
Richmond Univ Med Cntr	526	1.33	1.16	363	0.55	0.63	163	3.07	3.40
Rochester General Hosp	3819	1.68	1.59 *	3098	0.94	0.92	721	4.85	4.56
Samaritan Hospital	823	1.94	2.67 *	578	1.38	2.38 *	245	3.27	5.48
Saratoga Hospital	629	1.91	1.52	406	0.99	1.31	223	3.59	3.49
South Shore Univ. Hosp	2605	1.11	1.51	2267	0.84	1.13	338	2.96	3.38
St. Barnabas Hospital	423	1.18	1.17	318	0.63	0.70	105	2.86	3.27
St. Catherine of Siena	752	1.33	1.39	597	1.34	1.18	155	1.29	1.75
St. Elizabeth Med Ctr	2556	2.19	1.92 *	1977	1.52	1.52 *	579	4.49	4.17
St. Francis Hospital	8750	0.81	0.93 **	8151	0.63	0.60	599	3.34	2.48
St. Josephs Hospital	6151	1.46	1.17	4747	1.01	0.76	1404	2.99	3.14
St. Peter's Hospital	2446	1.59	1.53	1889	1.16	1.13	557	3.05	3.51
Staten Island Univ Hosp	2694	0.71	0.94	2287	0.66	0.84	407	0.98	1.20 **
Stony Brook Southampton	207	1.93	1.44	132	0.00	0.00	75	5.33	6.28
Strong Memorial Hosp	3556	1.86	1.52	2325	0.90	0.83	1231	3.66	4.47 *
UHS Wilson Med Ctr	2073	1.06	1.00	1618	0.74	0.72	455	2.20	2.41
UVM Health Network CVPH	2106	1.23	1.10	1513	1.06	1.00	593	1.69	2.00
Unity Hospital	878	2.73	1.95 *	601	1.33	1.08	277	5.78	5.11
Univ Hosp at Downstate	1035	3.00	1.65	697	1.43	0.80	338	6.21	4.98
Univ. Hosp-Stony Brook	4247	1.72	1.44	3407	1.26	0.90	840	3.57	4.01
Univ. Hosp-Upstate	639	3.29	2.12 *	373	2.14	1.50	266	4.89	5.47
Vassar Bros. Med Ctr	3186	1.63	1.14	2398	1.17	0.72	788	3.05	3.13
Westchester Med Ctr	1383	2.24	1.47	909	1.65	1.27	474	3.38	3.08
White Plains Hospital	1555	1.35	1.54	1287	0.78	0.89	268	4.10	4.53
<b>Statewide Total</b>	<b>157140</b>	<b>1.22</b>		<b>129442</b>	<b>0.79</b>		<b>27698</b>	<b>3.24</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, 2017-2019 Discharges (Listed Alphabetically by Hospital)

Hospital	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR
Albany Med. Ctr	943	38	4.03	2.53	3.54*	(2.51, 4.86)
Bassett Medical Center	21	0	0.00	1.41	0.00	(0.00,27.50)
Buffalo General Med Ctr	1037	32	3.09	2.15	3.19	(2.18, 4.51)
Ellis Hospital	107	3	2.80	2.80	2.23	(0.45, 6.50)
Good Sam Univ Hosp	118	1	0.85	2.24	0.84	(0.01, 4.68)
Lenox Hill Hospital	363	2	0.55	2.10	0.58**	(0.07, 2.10)
Maimonides Medical Ctr	244	6	2.46	2.23	2.45	(0.89, 5.33)
Mercy Hospital-Buffalo	255	5	1.96	1.88	2.32	(0.75, 5.41)
Montefiore - Moses	21	1	4.76	2.66	3.98	(0.05,22.12)
Montefiore - Weiler	328	6	1.83	2.38	1.71	(0.62, 3.71)
Mount Sinai Hospital	972	23	2.37	2.36	2.23	(1.41, 3.35)
Mount Sinai Morningside	75	1	1.33	2.10	1.41	(0.02, 7.87)
NYP Brooklyn Methodist	106	2	1.89	2.44	1.72	(0.19, 6.21)
NYP Columbia Presby.	1350	23	1.70	2.47	1.53	(0.97, 2.30)
NYP NY Weill Cornell	669	10	1.49	2.10	1.58	(0.76, 2.91)
NYU Hospitals Center	1176	15	1.28	1.82	1.56	(0.87, 2.57)
NYU Winthrop Hospital	834	27	3.24	2.33	3.09	(2.04, 4.50)
North Shore Univ Hosp	833	16	1.92	2.30	1.86	(1.06, 3.02)
Rochester General Hosp	604	16	2.65	2.13	2.76	(1.58, 4.49)
South Shore Univ. Hosp	340	10	2.94	2.21	2.95	(1.41, 5.43)
St. Elizabeth Med Ctr	168	3	1.79	1.98	2.00	(0.40, 5.86)
St. Francis Hospital	1424	35	2.46	2.28	2.39	(1.67, 3.33)
St. Josephs Hospital	587	11	1.87	2.32	1.79	(0.89, 3.21)
St. Peter's Hospital	270	2	0.74	2.20	0.75	(0.08, 2.70)
Staten Island Univ Hosp	146	0	0.00	1.98	0.00	(0.00, 2.82)
Strong Memorial Hosp	467	16	3.43	2.24	3.39	(1.94, 5.51)
UHS Wilson Med Ctr	276	1	0.36	1.93	0.42	(0.01, 2.32)
Univ. Hosp-Stony Brook	513	5	0.97	2.14	1.01	(0.33, 2.37)
Vassar Bros. Med Ctr	306	12	3.92	1.83	4.76*	(2.45, 8.31)
Westchester Med Ctr	392	10	2.55	2.14	2.65	(1.27, 4.88)
<b>STATEWIDE TOTAL</b>	<b>14945</b>	<b>332</b>	<b>2.22</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.



## 2017-2019 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 2017-2019 for cardiologists in each of the 65 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 2017-2019, and/or (b) performed at least one PCI in each of the years 2017-2019. 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 2017-2019.

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) or cardiac arrest less than 24 hours before the procedure and non-refractory cardiogenic shock 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, 2017-2019 Discharges

	Cases	Deaths	OMR	All Cases EMR	RAMR	95% CI for RAMR	Non-emergency Cases	RAMR
<b>Statewide Total</b>	<b>157140</b>	<b>1916</b>		<b>1.22129442</b>	<b>0.79</b>			
<b>Albany Medical Center</b>								
##Delago A	434	13	3.00	1.40	2.61 *	(1.39, 4.47)	368	1.87 *
El-Hajjar M	247	3	1.21	1.20	1.23	(0.25, 3.59)	189	1.00
##Esper D	226	6	2.65	1.39	2.33	(0.85, 5.08)	191	1.05
#Madiraju S	3	0	0.00	13.72	0.00	(0.00,10.86)	2	0.00
##Maroney J	426	10	2.35	1.03	2.79 *	(1.33, 5.12)	355	2.11
##Nappi A	411	15	3.65	1.73	2.57 *	(1.44, 4.24)	326	1.74
##Papaleo R	23	2	8.70	1.70	6.24	(0.70,22.54)	5	0.00
##Winston B	92	2	2.17	1.83	1.45	(0.16, 5.23)	56	1.43
#Yager N	309	9	2.91	1.89	1.88	(0.86, 3.58)	231	1.56
All Others	32	1	3.13	1.32	2.88	(0.04,16.04)	26	0.00
<b>TOTAL</b>	<b>2203</b>	<b>61</b>	<b>2.77</b>	<b>1.47</b>	<b>2.29 *</b>	<b>(1.76, 2.95)</b>	<b>1749</b>	<b>1.61 *</b>
<b>Arnot Ogden Medical Center</b>								
#Doling M	8	0	0.00	0.69	0.00	(0.00,81.01)	8	0.00
##Gill K	175	9	5.14	1.52	4.12 *	(1.88, 7.82)	122	2.47
#Grella R	45	1	2.22	1.26	2.15	(0.03,11.95)	36	0.00
#Husain S S	4	0	0.00	2.61	0.00	(0.00,42.84)	1	0.00
#Kandala J	112	3	2.68	2.00	1.64	(0.33, 4.78)	71	4.70
##Khurana D	17	0	0.00	1.19	0.00	(0.00,22.04)	10	0.00
All Others	504	10	1.98	1.68	1.44	(0.69, 2.64)	307	0.37
<b>TOTAL</b>	<b>865</b>	<b>23</b>	<b>2.66</b>	<b>1.66</b>	<b>1.96 *</b>	<b>(1.24, 2.94)</b>	<b>555</b>	<b>1.32</b>
<b>Bassett Medical Center</b>								
#Kandala J	232	4	1.72	1.87	1.13	(0.30, 2.88)	180	0.68
Kreps E	71	1	1.41	2.30	0.75	(0.01, 4.16)	36	2.09
#McNulty P	31	0	0.00	2.15	0.00	(0.00, 6.70)	18	0.00
Menzies D	911	7	0.77	1.34	0.70	(0.28, 1.44)	781	0.63
##Munshi M	4	0	0.00	1.67	0.00	(0.00,66.97)	2	0.00
##Nappi A	10	0	0.00	3.71	0.00	(0.00,12.06)	1	0.00
##Sharma A	12	1	8.33	3.26	3.12	(0.04,17.37)	7	0.00
#Yager N	2	0	0.00	0.81	0.00	(0.00,100.0)	1	0.00
#Yarkoni A	14	1	7.14	1.91	4.55	(0.06,25.32)	9	0.00
All Others	243	0	0.00	1.53	0.00 **	(0.00, 1.20)	182	0.00
<b>TOTAL</b>	<b>1530</b>	<b>14</b>	<b>0.92</b>	<b>1.54</b>	<b>0.72 **</b>	<b>(0.39, 1.21)</b>	<b>1217</b>	<b>0.58</b>
<b>Bellevue Hospital Center</b>								
#Attubato M	2	0	0.00	1.16	0.00	(0.00,100.0)	.	.
#Babaev A	3	1	33.33	12.95	3.14	(0.04,17.47)	.	.
#Bangalore S	532	14	2.63	2.44	1.31	(0.72, 2.21)	443	1.02
#Coppola J	135	4	2.96	1.48	2.45	(0.66, 6.27)	108	1.19
#Hegde S	43	1	2.33	0.98	2.88	(0.04,16.02)	40	1.94
#Iqbal S	216	4	1.85	1.67	1.36	(0.36, 3.47)	165	1.59
Kurian D	34	0	0.00	0.25	0.00	(0.00,52.47)	34	0.00
#Razzouk L	10	0	0.00	3.82	0.00	(0.00,11.70)	1	0.00
#Serrano-Gomez C	17	0	0.00	3.31	0.00	(0.00, 7.96)	3	0.00
#Shah B	111	3	2.70	1.68	1.96	(0.39, 5.74)	83	0.00
##Sharma A	4	0	0.00	0.76	0.00	(0.00,100.0)	2	0.00
#Smilowitz N	37	1	2.70	2.25	1.46	(0.02, 8.14)	13	3.49
#Vales L	14	1	7.14	9.26	0.94	(0.01, 5.23)	6	0.00
All Others	21	1	4.76	2.78	2.09	(0.03,11.61)	4	0.00
<b>TOTAL</b>	<b>1179</b>	<b>30</b>	<b>2.54</b>	<b>2.12</b>	<b>1.46</b>	<b>(0.99, 2.09)</b>	<b>902</b>	<b>1.10</b>

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>BronxCare Health System</b>								
##Celaj S	49	0	0.00	2.12	0.00	(0.00, 4.31)	6	0.00
#Krim N	578	4	0.69	1.09	0.78	(0.21, 1.99)	384	0.61
#Tamis-Holland J	37	0	0.00	1.76	0.00	(0.00, 6.87)	19	0.00
All Others	11	0	0.00	1.03	0.00	(0.00,39.48)	7	0.00
<b>TOTAL</b>	<b>675</b>	<b>4</b>	<b>0.59</b>	<b>1.20</b>	<b>0.60</b>	<b>(0.16, 1.55)</b>	<b>416</b>	<b>0.56</b>
<b>Brookdale Univ. Hospital Medical Ctr</b>								
#Castillo R	274	6	2.19	1.40	1.91	(0.70, 4.16)	190	1.41
#Chadow H	180	1	0.56	1.63	0.41	(0.01, 2.31)	128	0.00
#Khan Abdullah	127	2	1.57	1.12	1.72	(0.19, 6.21)	77	1.33
#Russell M	17	2	11.76	3.73	3.84	(0.43,13.88)	3	0.00
<b>TOTAL</b>	<b>598</b>	<b>11</b>	<b>1.84</b>	<b>1.47</b>	<b>1.52</b>	<b>(0.76, 2.72)</b>	<b>398</b>	<b>0.85</b>
<b>Brooklyn Hospital Center-Downtown</b>								
##Barman N	5	1	20.00	1.03	23.75	(0.31,100.0)	.	.
#Garyali S	59	1	1.69	1.19	1.74	(0.02, 9.66)	43	0.00
#Jasty B	1	0	0.00	0.19	0.00	(0.00,100.0)	1	0.00
##Jones M	5	0	0.00	1.63	0.00	(0.00,54.92)	.	.
##Kesanakurthy S	310	1	0.32	0.96	0.41	(0.01, 2.28)	259	0.00
All Others	9	0	0.00	1.26	0.00	(0.00,39.50)	1	0.00
<b>TOTAL</b>	<b>389</b>	<b>3</b>	<b>0.77</b>	<b>1.01</b>	<b>0.93</b>	<b>(0.19, 2.72)</b>	<b>304</b>	<b>0.00</b>
<b>Buffalo General Medical Center</b>								
##Conley J	509	7	1.38	0.77	2.19	(0.88, 4.51)	407	0.94
#Dalal K	203	5	2.46	1.37	2.20	(0.71, 5.13)	133	1.32
#Dashkoff N	270	2	0.74	1.04	0.87	(0.10, 3.14)	206	0.00
##Farhi E	672	6	0.89	1.35	0.81	(0.29, 1.76)	460	0.47
#Iyer V	650	11	1.69	1.70	1.21	(0.60, 2.17)	493	0.63
##Morris W	626	7	1.12	1.10	1.24	(0.50, 2.56)	520	0.44
##Phadke K	637	8	1.26	1.49	1.03	(0.44, 2.03)	445	0.90
##Sullivan P	149	3	2.01	2.56	0.96	(0.19, 2.80)	57	0.00
Zlotnick D	634	8	1.26	1.46	1.06	(0.46, 2.08)	381	0.27
<b>TOTAL</b>	<b>4350</b>	<b>57</b>	<b>1.31</b>	<b>1.36</b>	<b>1.18</b>	<b>(0.89, 1.53)</b>	<b>3102</b>	<b>0.59</b>
<b>Cayuga Medical Center</b>								
##Ong Ling	2	0	0.00	1.01	0.00	(0.00,100.0)	2	0.00
Sodums M	180	5	2.78	1.58	2.14	(0.69, 4.99)	86	1.46
Stefek P	190	4	2.11	1.48	1.73	(0.47, 4.44)	100	1.10
<b>TOTAL</b>	<b>372</b>	<b>9</b>	<b>2.42</b>	<b>1.53</b>	<b>1.93</b>	<b>(0.88, 3.67)</b>	<b>188</b>	<b>1.23</b>
<b>Crouse Hospital</b>								
Battaglia J	478	9	1.88	1.11	2.07	(0.94, 3.93)	374	0.83
#George Anil	476	12	2.52	1.64	1.87	(0.96, 3.27)	373	1.68
Ulahannan J	228	2	0.88	1.54	0.70	(0.08, 2.51)	172	0.65
<b>TOTAL</b>	<b>1182</b>	<b>23</b>	<b>1.95</b>	<b>1.41</b>	<b>1.69</b>	<b>(1.07, 2.53)</b>	<b>919</b>	<b>1.15</b>
<b>Ellis Hospital</b>								
Cospito P	325	9	2.77	1.30	2.59	(1.18, 4.92)	222	2.70 *
#Madiraju S	481	8	1.66	1.87	1.08	(0.47, 2.13)	315	0.50
Parkes R	469	6	1.28	1.33	1.17	(0.43, 2.56)	308	0.37
Weitz S	310	7	2.26	1.52	1.81	(0.72, 3.73)	178	0.00
All Others	51	1	1.96	1.44	1.66	(0.02, 9.26)	32	0.00
<b>TOTAL</b>	<b>1636</b>	<b>31</b>	<b>1.89</b>	<b>1.52</b>	<b>1.52</b>	<b>(1.03, 2.15)</b>	<b>1055</b>	<b>0.78</b>
<b>Elmhurst Hospital Center</b>								
##Barman N	38	0	0.00	2.82	0.00	(0.00, 4.18)	4	0.00
Kamran M	722	8	1.11	1.31	1.03	(0.44, 2.03)	517	0.37
##Pyo R	22	1	4.55	2.45	2.27	(0.03,12.61)	1	0.00
##Wiley J	40	1	2.50	3.51	0.87	(0.01, 4.84)	2	0.00
Yatskar L	468	2	0.43	0.91	0.57	(0.06, 2.07)	329	0.54
<b>TOTAL</b>	<b>1290</b>	<b>12</b>	<b>0.93</b>	<b>1.30</b>	<b>0.87</b>	<b>(0.45, 1.53)</b>	<b>853</b>	<b>0.43</b>

Table 5, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>Garnet Health Medical Center</b>								
Bajaj R	333	8	2.40	0.89	3.31 *	(1.42, 6.52)	264	2.43
#Cuomo L	254	1	0.39	1.32	0.36	(0.00, 2.02)	150	0.71
##Gotsis W	813	6	0.74	0.99	0.90	(0.33, 1.97)	660	0.91
##Green P	2	0	0.00	2.26	0.00	(0.00,98.83)	2	0.00
##Kalapatapu K	361	2	0.55	1.18	0.57	(0.06, 2.07)	352	0.00
#Khanna N	8	0	0.00	0.83	0.00	(0.00,67.38)	7	0.00
#Motivala A	10	1	10.00	1.60	7.62	(0.10,42.41)	6	0.00
#Silverman G	455	2	0.44	1.03	0.52	(0.06, 1.89)	304	0.00
<b>TOTAL</b>	<b>2236</b>	<b>20</b>	<b>0.89</b>	<b>1.05</b>	<b>1.03</b>	<b>(0.63, 1.60)</b>	<b>1745</b>	<b>0.64</b>
<b>Glens Falls Hospital</b>								
Bashir I	297	2	0.67	1.36	0.60	(0.07, 2.18)	179	0.83
##Chavarria N	3	0	0.00	0.84	0.00	(0.00,100.0)	2	0.00
Hogan R	252	3	1.19	1.71	0.85	(0.17, 2.48)	163	1.53
##Papaleo R	19	0	0.00	2.09	0.00	(0.00,11.24)	1	0.00
<b>TOTAL</b>	<b>571</b>	<b>5</b>	<b>0.88</b>	<b>1.54</b>	<b>0.69</b>	<b>(0.22, 1.62)</b>	<b>345</b>	<b>1.18</b>
<b>Good Samaritan Hospital of Suffern</b>								
Agarwal A	203	3	1.48	1.46	1.24	(0.25, 3.61)	150	0.99
##Gotsis W	1	0	0.00	1.00	0.00	(0.00,100.0)	1	0.00
Hirsch C	265	5	1.89	1.72	1.34	(0.43, 3.13)	216	0.42
Innerfield M	190	3	1.58	1.79	1.07	(0.22, 3.13)	147	0.76
Kovar L	338	4	1.18	1.34	1.08	(0.29, 2.76)	281	0.29
Shih Yang	175	3	1.71	1.57	1.33	(0.27, 3.88)	128	2.70
Singh R	255	3	1.18	2.17	0.66	(0.13, 1.93)	178	0.51
All Others	280	2	0.71	1.52	0.57	(0.06, 2.06)	200	0.39
<b>TOTAL</b>	<b>1707</b>	<b>23</b>	<b>1.35</b>	<b>1.64</b>	<b>1.00</b>	<b>(0.63, 1.50)</b>	<b>1301</b>	<b>0.65</b>
<b>Good Samaritan University Hospital</b>								
##Caselnova R	487	4	0.82	1.08	0.93	(0.25, 2.38)	466	0.74
##Chengot T	198	3	1.52	1.34	1.38	(0.28, 4.02)	171	1.66
##Deutsch E	634	4	0.63	0.60	1.28	(0.34, 3.27)	602	1.06
#Gandotra P	43	1	2.33	1.29	2.19	(0.03,12.19)	42	1.50
##Happes M	264	3	1.14	1.30	1.07	(0.21, 3.12)	241	0.38
##Hormozi S	454	4	0.88	0.72	1.49	(0.40, 3.80)	419	1.52
#Lee P J	871	8	0.92	0.55	2.03	(0.87, 4.00)	831	1.65
##Patel R B	65	2	3.08	2.01	1.87	(0.21, 6.74)	26	0.00
#Reich D	633	3	0.47	0.63	0.91	(0.18, 2.67)	595	0.58
##Selim S	12	0	0.00	1.06	0.00	(0.00,35.25)	12	0.00
<b>TOTAL</b>	<b>3661</b>	<b>32</b>	<b>0.87</b>	<b>0.80</b>	<b>1.33</b>	<b>(0.91, 1.88)</b>	<b>3405</b>	<b>1.06</b>
<b>Huntington Hospital</b>								
##Bagga R	583	5	0.86	0.93	1.12	(0.36, 2.62)	488	1.26
##Ong Lawrence	101	0	0.00	1.12	0.00	(0.00, 3.96)	88	0.00
##Patcha R	184	3	1.63	1.00	1.98	(0.40, 5.78)	151	1.01
#Polena S	352	4	1.14	0.80	1.74	(0.47, 4.46)	285	0.53
#Strizik B	319	4	1.25	1.36	1.13	(0.30, 2.88)	204	1.29
<b>TOTAL</b>	<b>1539</b>	<b>16</b>	<b>1.04</b>	<b>1.01</b>	<b>1.26</b>	<b>(0.72, 2.04)</b>	<b>1216</b>	<b>0.99</b>
<b>Jamaica Hospital Medical Center</b>								
##Coven D	120	4	3.33	1.35	3.00	(0.81, 7.69)	48	3.12
##Gupta R	11	1	9.09	1.28	8.65	(0.11,48.13)	11	4.90
##Jain S	194	3	1.55	1.56	1.21	(0.24, 3.53)	102	2.90
#Lasic Z	144	1	0.69	1.60	0.53	(0.01, 2.94)	57	0.00
#Mangla A	210	0	0.00	3.23	0.00 **	(0.00, 0.66)	115	0.00
#Raza J	2	0	0.00	0.80	0.00	(0.00,100.0)	.	.
#Singh G	145	1	0.69	1.31	0.64	(0.01, 3.58)	70	0.00
#Suleman J	2	0	0.00	1.12	0.00	(0.00,100.0)	2	0.00
All Others	36	1	2.78	1.47	2.30	(0.03,12.78)	9	0.00
<b>TOTAL</b>	<b>864</b>	<b>11</b>	<b>1.27</b>	<b>1.89</b>	<b>0.82</b>	<b>(0.41, 1.47)</b>	<b>414</b>	<b>1.22</b>

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>Lenox Hill Hospital</b>								
##Coven D	35	0	0.00	0.84	0.00	(0.00,15.26)	26	0.00
##Dominguez Alvaro	254	0	0.00	0.37	0.00	(0.00, 4.75)	253	0.00
#Gujja K	4	0	0.00	4.41	0.00	(0.00,25.34)	4	0.00
Hassid B	513	3	0.58	1.07	0.67	(0.13, 1.95)	453	0.52
#Htun W	15	0	0.00	0.37	0.00	(0.00,81.06)	15	0.00
#Iyer S	12	0	0.00	0.38	0.00	(0.00,97.11)	12	0.00
##Jain S	192	0	0.00	0.56	0.00	(0.00, 4.17)	190	0.00
##Khurana D	83	0	0.00	2.26	0.00	(0.00, 2.39)	64	0.00
#Kim M	1327	5	0.38	0.74	0.62	(0.20, 1.45)	1269	0.30
#Kukar A	87	2	2.30	1.52	1.85	(0.21, 6.67)	76	0.00
#Lasic Z	220	0	0.00	0.43	0.00	(0.00, 4.75)	214	0.00
#Mangla A	208	1	0.48	0.44	1.32	(0.02, 7.34)	204	1.12
#Mignatti A	131	2	1.53	3.13	0.59	(0.07, 2.15)	91	0.87
#Mousa T	93	0	0.00	0.19	0.00	(0.00,25.55)	93	0.00
Punukollu G	267	0	0.00	0.69	0.00	(0.00, 2.44)	264	0.00
Qadri S	45	0	0.00	0.18	0.00	(0.00,54.93)	44	0.00
#Raza J	139	0	0.00	0.26	0.00	(0.00,12.49)	138	0.00
Reimers C	543	2	0.37	0.78	0.57	(0.06, 2.07)	484	0.31
#Shah Ankur	223	2	0.90	0.44	2.50	(0.28, 9.03)	221	1.86
#Singh G	49	0	0.00	0.60	0.00	(0.00,15.32)	48	0.00
Singh V	844	3	0.36	0.57	0.77	(0.15, 2.24)	814	0.43
##Stathopoulos I	39	0	0.00	0.47	0.00	(0.00,24.53)	39	0.00
##Weinberg M	23	0	0.00	0.65	0.00	(0.00,29.74)	21	0.00
Zaric M	7	0	0.00	0.25	0.00	(0.00,100.0)	7	0.00
All Others	204	1	0.49	0.98	0.61	(0.01, 3.40)	190	0.47
<b>TOTAL</b>	<b>5557</b>	<b>21</b>	<b>0.38</b>	<b>0.76</b>	<b>0.61**</b>	<b>(0.38, 0.93)</b>	<b>5234</b>	<b>0.37**</b>
<b>Long Island Community Hospital</b>								
##Bench T	29	0	0.00	1.82	0.00	(0.00, 8.46)	10	0.00
##Franco J	71	1	1.41	0.36	4.81	(0.06,26.77)	66	0.00
#Gambino A	17	0	0.00	0.40	0.00	(0.00,65.54)	16	0.00
##Gill K	48	0	0.00	0.77	0.00	(0.00,12.04)	41	0.00
##Joseph S	63	1	1.59	0.75	2.59	(0.03,14.42)	54	0.00
#Khan W	763	8	1.05	1.09	1.17	(0.50, 2.30)	576	1.51
##Kruger A	43	0	0.00	0.77	0.00	(0.00,13.42)	39	0.00
Patel S	85	1	1.18	1.43	1.01	(0.01, 5.59)	44	0.00
#Pulipati B	159	1	0.63	1.12	0.69	(0.01, 3.82)	119	1.23
#Schwartz R	18	0	0.00	0.67	0.00	(0.00,37.12)	18	0.00
<b>TOTAL</b>	<b>1296</b>	<b>12</b>	<b>0.93</b>	<b>1.04</b>	<b>1.09</b>	<b>(0.56, 1.90)</b>	<b>983</b>	<b>1.04</b>
<b>Long Island Jewish Medical Center</b>								
#Boutis L	22	0	0.00	3.20	0.00	(0.00, 6.35)	3	0.00
##Dhama B	62	0	0.00	0.40	0.00	(0.00,18.25)	61	0.00
##Fuschetto D	98	0	0.00	0.51	0.00	(0.00, 8.91)	95	0.00
##Fuschetto O	41	0	0.00	0.62	0.00	(0.00,17.70)	40	0.00
##Gupta R	33	1	3.03	0.51	7.20	(0.09,40.05)	33	4.34
#Husain S I	87	2	2.30	1.00	2.79	(0.31,10.09)	85	1.93
##Jain S	1	0	0.00	0.26	0.00	(0.00,100.0)	1	0.00
#Jauhar R	21	0	0.00	2.18	0.00	(0.00, 9.79)	3	0.00
#Kaplan B	22	0	0.00	2.29	0.00	(0.00, 8.89)	5	0.00
##Katz S	5	0	0.00	3.00	0.00	(0.00,29.80)	.	.
##Khurana D	10	0	0.00	0.47	0.00	(0.00,94.67)	9	0.00
##Koss J	132	1	0.76	0.63	1.46	(0.02, 8.10)	125	1.27
#Lee A	608	5	0.82	1.17	0.85	(0.28, 1.99)	488	0.86
#Marchant D	16	0	0.00	2.42	0.00	(0.00,11.54)	2	0.00
#Meraj P	16	0	0.00	1.61	0.00	(0.00,17.33)	4	0.00
#Rutkin B	6	0	0.00	0.68	0.00	(0.00,100.0)	1	0.00
##Selim S	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
#Singh A	701	1	0.14	0.87	0.20**	(0.00, 1.12)	586	0.22
#Srinivas G	113	1	0.88	0.45	2.40	(0.03,13.36)	111	1.56
##Weinberg M	12	0	0.00	1.51	0.00	(0.00,24.69)	1	0.00
##Yadav S	3	0	0.00	0.24	0.00	(0.00,100.0)	3	0.00
All Others	36	1	2.78	1.08	3.15	(0.04,17.52)	31	2.84
<b>TOTAL</b>	<b>2046</b>	<b>12</b>	<b>0.59</b>	<b>0.96</b>	<b>0.74</b>	<b>(0.38, 1.30)</b>	<b>1688</b>	<b>0.80</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	704	10	1.42	2.19	0.79	(0.38, 1.46)	549	0.48
Borgen E	531	3	0.56	2.09	0.33 **	(0.07, 0.96)	397	0.13 **
##Chen O	14	0	0.00	0.19	0.00	(0.00,100.0)	13	0.00
Frankel R	270	6	2.22	2.32	1.17	(0.43, 2.54)	225	1.76
Friedman M	259	4	1.54	2.94	0.64	(0.17, 1.64)	167	0.35
##Fuschetto D	1	0	0.00	0.97	0.00	(0.00,100.0)	1	0.00
##Fuschetto O	3	0	0.00	0.16	0.00	(0.00,100.0)	3	0.00
#Garyali S	4	0	0.00	0.19	0.00	(0.00,100.0)	4	0.00
##Jones M	71	1	1.41	1.08	1.59	(0.02, 8.84)	70	1.13
Malik B	1015	14	1.38	1.65	1.02	(0.56, 1.71)	866	0.78
Shaknovich A	107	1	0.93	0.69	1.64	(0.02, 9.13)	107	1.15
Shani J	202	0	0.00	1.01	0.00	(0.00, 2.20)	193	0.00
Topi B	671	8	1.19	2.22	0.65	(0.28, 1.29)	500	0.22 **
All Others	83	0	0.00	2.27	0.00	(0.00, 2.37)	50	0.00
<b>TOTAL</b>	<b>3935</b>	<b>47</b>	<b>1.19</b>	<b>1.97</b>	<b>0.74 **</b>	<b>(0.54, 0.98)</b>	<b>3145</b>	<b>0.51 **</b>
<b>Mercy Hospital of Buffalo</b>								
#Chaudhry E	128	2	1.56	1.30	1.47	(0.16, 5.29)	91	1.30
##Conley J	107	0	0.00	0.35	0.00	(0.00,12.02)	106	0.00
Emerson R	167	6	3.59	1.76	2.49	(0.91, 5.43)	70	2.82
#Gelormini J	561	5	0.89	1.29	0.84	(0.27, 1.97)	437	0.82
#Haq N	531	5	0.94	1.31	0.88	(0.28, 2.05)	405	0.00
Masud A R Z	182	3	1.65	1.20	1.68	(0.34, 4.90)	165	1.28
#Masud Ali	472	14	2.97	1.65	2.19	(1.20, 3.68)	335	1.14
#Meltser H	915	18	1.97	1.36	1.77	(1.05, 2.79)	682	1.48
##Morris W	1	0	0.00	0.07	0.00	(0.00,100.0)	1	0.00
##Phadke K	1	0	0.00	0.08	0.00	(0.00,100.0)	1	0.00
##Sullivan P	4	0	0.00	0.39	0.00	(0.00,100.0)	4	0.00
All Others	236	4	1.69	1.26	1.64	(0.44, 4.20)	171	1.73
<b>TOTAL</b>	<b>3305</b>	<b>57</b>	<b>1.72</b>	<b>1.35</b>	<b>1.56</b>	<b>(1.18, 2.02)</b>	<b>2468</b>	<b>1.09</b>
<b>Montefiore Medical Center - Moses Div.</b>								
##Amsalem Y	317	9	2.84	1.25	2.76 *	(1.26, 5.25)	253	1.94
##Bliagos D	169	0	0.00	0.80	0.00	(0.00, 3.29)	164	0.00
##Bortnick A	37	1	2.70	1.62	2.03	(0.03,11.29)	29	0.00
##Celaj S	314	1	0.32	0.94	0.42	(0.01, 2.31)	272	0.41
##Charney R	7	0	0.00	0.43	0.00	(0.00,100.0)	6	0.00
##Chavarria N	258	2	0.78	1.12	0.84	(0.09, 3.05)	184	1.41
##Gotsis W	205	0	0.00	1.27	0.00	(0.00, 1.72)	191	0.00
##Greenberg M	268	0	0.00	0.59	0.00	(0.00, 2.85)	256	0.00
##Johnson M	431	2	0.46	0.99	0.57	(0.06, 2.07)	398	0.00
#Kakkar A	146	0	0.00	1.10	0.00	(0.00, 2.79)	133	0.00
##Pyo R	207	3	1.45	1.33	1.33	(0.27, 3.88)	174	1.15
##Rauch J	263	4	1.52	1.38	1.34	(0.36, 3.44)	232	0.31
Sehhat K	169	0	0.00	0.37	0.00	(0.00, 7.11)	168	0.00
##Shaqra H	51	0	0.00	2.63	0.00	(0.00, 3.33)	9	0.00
##Weisz G	223	2	0.90	0.85	1.29	(0.14, 4.65)	195	0.62
##Wiley J	133	3	2.26	1.18	2.33	(0.47, 6.81)	102	0.00
All Others	56	0	0.00	0.89	0.00	(0.00, 8.95)	47	0.00
<b>TOTAL</b>	<b>3254</b>	<b>27</b>	<b>0.83</b>	<b>1.05</b>	<b>0.96</b>	<b>(0.64, 1.40)</b>	<b>2813</b>	<b>0.51</b>

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>Montefiore Medical Center - Weiler Hosp.</b>								
##Bortnick A	305	4	1.31	1.76	0.91	(0.24, 2.33)	228	0.60
##Charney R	67	3	4.48	1.29	4.23	(0.85,12.35)	67	2.52
##Gotsis W	2	1	50.00	1.12	54.30	(0.71,100.0)	2	36.86
##Greenberg M	138	2	1.45	0.68	2.58	(0.29, 9.33)	129	1.99
##Johnson M	1	0	0.00	0.14	0.00	(0.00,100.0)	1	0.00
#Kakkar A	216	4	1.85	1.29	1.76	(0.47, 4.50)	184	1.38
#Menegus M	535	7	1.31	1.19	1.34	(0.54, 2.77)	429	0.91
##Messinger D	7	0	0.00	9.55	0.00	(0.00, 6.69)	6	0.00
##Monrad E	275	3	1.09	1.48	0.90	(0.18, 2.62)	194	0.81
##Rauch J	3	0	0.00	0.49	0.00	(0.00,100.0)	3	0.00
##Shaqra H	158	4	2.53	1.55	1.99	(0.54, 5.10)	132	0.97
Slovut D	99	1	1.01	1.76	0.70	(0.01, 3.89)	54	0.00
Sokol S	249	1	0.40	1.34	0.36	(0.00, 2.03)	200	0.49
##Weisz G	78	2	2.56	1.10	2.85	(0.32,10.30)	71	1.94
##Wiley J	5	0	0.00	0.21	0.00	(0.00,100.0)	5	0.00
All Others	244	2	0.82	1.40	0.71	(0.08, 2.58)	196	1.02
<b>TOTAL</b>	<b>2382</b>	<b>34</b>	<b>1.43</b>	<b>1.38</b>	<b>1.26</b>	<b>(0.87, 1.76)</b>	<b>1901</b>	<b>1.04</b>
<b>Montefiore St. Lukes Cornwall Hospital</b>								
#Cuomo L	3	0	0.00	3.35	0.00	(0.00,44.55)	2	0.00
##Gotsis W	1	0	0.00	11.27	0.00	(0.00,39.68)	.	.
Hadid A	297	6	2.02	1.57	1.56	(0.57, 3.41)	222	1.53
Hadid A B	103	1	0.97	1.31	0.91	(0.01, 5.04)	66	0.00
#Khanna N	83	3	3.61	1.64	2.68	(0.54, 7.83)	54	0.00
#Patrello A	362	7	1.93	1.12	2.10	(0.84, 4.33)	312	1.71
Shah N	237	6	2.53	1.32	2.33	(0.85, 5.08)	185	1.49
#Silverman G	2	0	0.00	1.92	0.00	(0.00,100.0)	.	.
<b>TOTAL</b>	<b>1088</b>	<b>23</b>	<b>2.11</b>	<b>1.36</b>	<b>1.89</b>	<b>(1.20, 2.84)</b>	<b>841</b>	<b>1.45 *</b>
<b>Mount Sinai Beth Israel</b>								
##Aslam Ahmad	234	1	0.43	0.16	3.26	(0.04,18.14)	234	1.92
#Aslam Ahmed	110	2	1.82	0.94	2.35	(0.26, 8.49)	96	3.68
#Fox J	1198	10	0.83	1.03	0.99	(0.47, 1.81)	1091	0.61
#Gowda R	461	5	1.08	1.22	1.08	(0.35, 2.53)	375	1.09
#Htun W	270	1	0.37	0.37	1.22	(0.02, 6.79)	268	0.81
Huang Y	300	0	0.00	0.39	0.00	(0.00, 3.77)	296	0.00
#Kanei Y	367	6	1.63	1.85	1.08	(0.39, 2.34)	264	0.00
#Khullar P	7	0	0.00	0.21	0.00	(0.00,100.0)	7	0.00
Kwan T	535	2	0.37	0.57	0.80	(0.09, 2.87)	529	0.30
Liou M	231	0	0.00	0.31	0.00	(0.00, 6.21)	228	0.00
##Puma J	93	1	1.08	0.64	2.04	(0.03,11.35)	92	0.00
##Ratcliffe J	36	0	0.00	0.39	0.00	(0.00,32.22)	36	0.00
#Rosero H	430	3	0.70	1.01	0.85	(0.17, 2.47)	370	0.40
Wilentz J	32	0	0.00	0.32	0.00	(0.00,43.38)	32	<b>0.00</b>
All Others	112	0	0.00	0.48	0.00	(0.00, 8.26)	106	0.00
<b>TOTAL</b>	<b>4416</b>	<b>31</b>	<b>0.70</b>	<b>0.86</b>	<b>1.00</b>	<b>(0.68, 1.42)</b>	<b>4024</b>	<b>0.55</b>



Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>Mount Sinai Hospital</b>								
Baber U	292	5	1.71	1.50	1.39	(0.45, 3.25)	247	0.82
Bander J	304	2	0.66	1.08	0.74	(0.08, 2.68)	269	0.00
##Barman N	238	7	2.94	2.16	1.66	(0.67, 3.43)	203	1.15
##Bliagos D	21	0	0.00	1.10	0.00	(0.00,19.39)	21	0.00
Dangas G	448	5	1.12	1.40	0.97	(0.31, 2.27)	407	0.50
##Dominguez Alvaro	6	0	0.00	0.56	0.00	(0.00,100.0)	6	0.00
##Duvvuri S	19	0	0.00	0.20	0.00	(0.00,100.0)	19	0.00
#Gujja K	194	1	0.52	0.59	1.07	(0.01, 5.95)	193	0.71
Hasan C	124	1	0.81	0.24	4.15	(0.05,23.10)	124	2.63
#Jayasundera T	1	0	0.00	0.08	0.00	(0.00,100.0)	1	0.00
#Kapur V	127	2	1.57	2.48	0.77	(0.09, 2.79)	100	0.57
##Kesanakurthy S	378	1	0.26	0.62	0.52	(0.01, 2.91)	373	0.47
Khan A A	99	2	2.02	1.40	1.77	(0.20, 6.37)	76	1.66
Kini A	2844	4	0.14	0.59	0.29 **	(0.08, 0.74)	2761	0.16 **
Kovacic J	66	0	0.00	1.81	0.00	(0.00, 3.74)	48	0.00
Krishnan P	163	0	0.00	0.61	0.00	(0.00, 4.50)	160	0.00
#Kukar A	140	1	0.71	0.42	2.06	(0.03,11.49)	139	1.36
#Moreno P	8	0	0.00	1.74	0.00	(0.00,32.07)	8	0.00
#Palkhiwala S	80	0	0.00	0.29	0.00	(0.00,19.35)	80	0.00
#Patel V	47	0	0.00	0.47	0.00	(0.00,20.15)	47	0.00
#Sharma S	3835	19	0.50	0.73	0.82	(0.50, 1.29)	3814	0.50
#Suleman J	422	1	0.24	0.29	1.01	(0.01, 5.62)	421	0.66
Sweeny J	358	3	0.84	0.75	1.37	(0.27, 3.99)	329	1.12
#Tomey M	3	0	0.00	0.17	0.00	(0.00,100.0)	3	0.00
##Zgheib M	1	0	0.00	1.10	0.00	(0.00,100.0)	1	0.00
All Others	129	3	2.33	1.59	1.79	(0.36, 5.22)	105	0.79
<b>TOTAL</b>	<b>10347</b>	<b>57</b>	<b>0.55</b>	<b>0.79</b>	<b>0.85 **</b>	<b>(0.64, 1.10)</b>	<b>9955</b>	<b>0.50 **</b>
<b>Mount Sinai Morningside</b>								
##Amsalem Y	55	2	3.64	1.52	2.92	(0.33,10.55)	29	4.81
#Fox J	1	0	0.00	1.49	0.00	(0.00,100.0)	1	0.00
##Gotsis W	3	0	0.00	0.31	0.00	(0.00,100.0)	3	0.00
#Gowda R	45	3	6.67	2.12	3.83	(0.77,11.20)	26	1.88
#Husain S S	13	0	0.00	0.35	0.00	(0.00,98.39)	13	0.00
#Kanei Y	1	0	0.00	4.18	0.00	(0.00,100.0)	1	0.00
#Kapur V	60	0	0.00	1.64	0.00	(0.00, 4.56)	55	0.00
#Khullar P	258	1	0.39	1.07	0.44	(0.01, 2.46)	242	0.00
#Krim N	27	0	0.00	2.02	0.00	(0.00, 8.20)	27	0.00
Leber R	323	2	0.62	1.18	0.64	(0.07, 2.31)	272	0.38
#Moreno P	912	6	0.66	0.89	0.90	(0.33, 1.97)	880	0.66
Palazzo A	73	0	0.00	0.82	0.00	(0.00, 7.50)	66	0.00
##Puma J	320	1	0.31	0.90	0.43	(0.01, 2.37)	311	0.33
##Ratcliffe J	242	5	2.07	1.16	2.17	(0.70, 5.07)	224	1.51
#Sharma S	18	0	0.00	0.26	0.00	(0.00,94.28)	18	0.00
Simon C	442	7	1.58	2.49	0.77	(0.31, 1.59)	377	0.44
##Stathopoulos I	25	0	0.00	1.06	0.00	(0.00,16.94)	25	0.00
#Tamis-Holland J	155	2	1.29	1.48	1.06	(0.12, 3.84)	113	0.00
#Tomey M	168	3	1.79	2.23	0.97	(0.20, 2.85)	126	0.67
All Others	143	1	0.70	1.53	0.56	(0.01, 3.10)	129	0.00
<b>TOTAL</b>	<b>3284</b>	<b>33</b>	<b>1.00</b>	<b>1.34</b>	<b>0.92</b>	<b>(0.63, 1.29)</b>	<b>2938</b>	<b>0.51</b>
<b>Mount Sinai South Nassau Hospital</b>								
Freeman J	587	4	0.68	1.02	0.81	(0.22, 2.08)	482	0.00
##Hormozi S	1	0	0.00	18.97	0.00	(0.00,23.58)	.	.
#Petrossian G	24	0	0.00	0.54	0.00	(0.00,34.61)	23	0.00
#Reddy K	8	0	0.00	0.60	0.00	(0.00,93.54)	8	0.00
#Rehman Asif	468	8	1.71	1.21	1.72	(0.74, 3.38)	329	1.83
#Rusovici A	154	1	0.65	2.11	0.38	(0.00, 2.09)	118	0.58
#Smyrlis A	364	10	2.75	2.10	1.60	(0.76, 2.93)	194	0.53
#Zisfein J	108	3	2.78	0.95	3.55	(0.71,10.38)	97	2.39
<b>TOTAL</b>	<b>1714</b>	<b>26</b>	<b>1.52</b>	<b>1.40</b>	<b>1.32</b>	<b>(0.86, 1.94)</b>	<b>1251</b>	<b>0.75</b>



Table 5, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>NYP Hospital - Brooklyn Methodist Hosp.</b>								
##Aslam Ahmad	97	0	0.00	0.46	0.00	(0.00,10.08)	95	0.00
#Aslam Ahmed	181	0	0.00	0.34	0.00	(0.00, 7.36)	179	0.00
#Badero O	129	0	0.00	0.29	0.00	(0.00,12.07)	129	0.00
Brener S	402	19	4.73	2.25	2.56 *	(1.54, 4.00)	271	1.40
##Dominguez Alvaro	5	0	0.00	1.16	0.00	(0.00,77.15)	5	0.00
Haq S	185	3	1.62	1.86	1.07	(0.21, 3.11)	167	0.65
##Hoyek W	42	1	2.38	0.21	14.14	(0.18,78.69)	42	8.63
#Jasty B	100	0	0.00	0.67	0.00	(0.00, 6.67)	99	0.00
##Jones M	3	0	0.00	0.63	0.00	(0.00,100.0)	3	0.00
##Lee P C	29	0	0.00	0.32	0.00	(0.00,48.89)	29	0.00
#Patel V	158	1	0.63	0.41	1.86	(0.02,10.36)	154	1.34
#Rehman S	250	0	0.00	1.06	0.00	(0.00, 1.68)	234	0.00
#Rosero H	17	0	0.00	0.58	0.00	(0.00,45.40)	17	0.00
Rouvelas P	25	0	0.00	0.41	0.00	(0.00,43.63)	25	0.00
Sacchi T	1066	12	1.13	0.90	1.53	(0.79, 2.66)	957	0.96
#Sanghi P	32	0	0.00	0.21	0.00	(0.00,67.79)	32	0.00
#Shah Ankur	149	1	0.67	0.79	1.03	(0.01, 5.76)	146	0.75
Shohat E	78	0	0.00	0.25	0.00	(0.00,22.75)	78	0.00
#Singh T	87	0	0.00	0.25	0.00	(0.00,20.71)	87	0.00
##Slotwiner A	7	0	0.00	0.34	0.00	(0.00,100.0)	7	0.00
Vefali H	145	5	3.45	1.60	2.63	(0.85, 6.13)	133	1.25
All Others	54	0	0.00	0.48	0.00	(0.00,17.17)	54	0.00
<b>TOTAL</b>	<b>3241</b>	<b>42</b>	<b>1.30</b>	<b>0.99</b>	<b>1.59</b>	<b>(1.15, 2.15)</b>	<b>2943</b>	<b>0.82</b>
<b>NYP Hospital - Columbia Presbyterian</b>								
Aboufares A	56	0	0.00	0.43	0.00	(0.00,18.78)	55	0.00
#Ali Z	481	7	1.46	1.82	0.97	(0.39, 2.00)	454	0.62
#Apfelbaum M	14	0	0.00	0.43	0.00	(0.00,74.08)	14	0.00
##Bliagos D	4	0	0.00	0.18	0.00	(0.00,100.0)	4	0.00
Brogno D	398	4	1.01	0.51	2.38	(0.64, 6.10)	392	1.72
Collins M	395	7	1.77	1.47	1.47	(0.59, 3.03)	361	0.69
##Green P	310	7	2.26	1.04	2.64	(1.06, 5.44)	277	1.56
##Hjemdahl-Monsen	27	0	0.00	0.84	0.00	(0.00,19.75)	26	0.00
#Irobunda C	114	2	1.75	0.76	2.80	(0.31,10.12)	98	0.00
##Kalapatapu K	13	0	0.00	0.35	0.00	(0.00,99.41)	13	0.00
Karmpaliotis D	532	8	1.50	0.90	2.05	(0.88, 4.03)	512	1.32
Kirtane A	500	5	1.00	1.03	1.19	(0.38, 2.77)	467	1.12
Kodali S	239	8	3.35	2.64	1.54	(0.66, 3.04)	226	0.98
Leon M	43	0	0.00	0.39	0.00	(0.00,26.87)	43	0.00
#Moses J	958	9	0.94	0.56	2.05	(0.94, 3.89)	956	1.29
#Motivala A	27	1	3.70	0.99	4.55	(0.06,25.34)	27	2.63
#Nazif T	158	3	1.90	2.15	1.08	(0.22, 3.14)	141	0.80
Parikh M	631	3	0.48	0.66	0.87	(0.18, 2.56)	608	0.75
Parikh S	126	3	2.38	1.96	1.48	(0.30, 4.32)	103	0.00
#Patel Amisha	259	7	2.70	1.21	2.72	(1.09, 5.60)	220	2.35 *
Perry-Bottinger L	9	0	0.00	0.30	0.00	(0.00,100.0)	9	0.00
#Pucillo A	143	2	1.40	0.82	2.07	(0.23, 7.47)	139	1.55
##Puma J	55	0	0.00	0.45	0.00	(0.00,18.05)	55	0.00
Rabbani L	335	1	0.30	0.69	0.53	(0.01, 2.95)	324	0.00
##Ratcliffe J	38	0	0.00	0.43	0.00	(0.00,27.65)	38	0.00
Rentrop K	40	0	0.00	0.26	0.00	(0.00,43.58)	40	0.00
Smith S	19	0	0.00	0.44	0.00	(0.00,53.32)	19	0.00
##Stathopoulos I	197	1	0.51	0.44	1.41	(0.02, 7.86)	197	0.95
#Vahl T	157	7	4.46	2.66	2.04	(0.82, 4.21)	136	1.83
#Warchol A	1	0	0.00	0.16	0.00	(0.00,100.0)	1	0.00
Weinberger J	8	0	0.00	0.48	0.00	(0.00,100.0)	8	0.00
All Others	191	3	1.57	1.53	1.25	(0.25, 3.65)	152	0.53
<b>TOTAL</b>	<b>6478</b>	<b>88</b>	<b>1.36</b>	<b>1.06</b>	<b>1.56 *</b>	<b>(1.25, 1.93)</b>	<b>6115</b>	<b>1.03 *</b>

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>NYP Hospital - New York Weill Cornell</b>								
Bergman G	443	7	1.58	2.13	0.91	(0.36, 1.87)	372	0.52
Feldman D	528	6	1.14	1.87	0.74	(0.27, 1.61)	450	0.68
##Kesanakurthy S	5	0	0.00	0.15	0.00	(0.00,100.0)	5	0.00
Kim L	534	2	0.37	1.94	0.24 **	(0.03, 0.85)	450	0.15
Minutello R	393	4	1.02	1.93	0.64	(0.17, 1.64)	319	0.41
##Sharma A	26	0	0.00	1.71	0.00	(0.00,10.08)	21	0.00
Singh H	231	1	0.43	1.66	0.32	(0.00, 1.76)	178	0.35
##Slotwiner A	22	0	0.00	2.41	0.00	(0.00, 8.44)	19	0.00
##Srivastava S	13	0	0.00	0.30	0.00	(0.00,100.0)	12	0.00
Wong S	386	4	1.04	0.84	1.51	(0.41, 3.87)	367	1.17
All Others	6	0	0.00	0.29	0.00	(0.00,100.0)	6	0.00
<b>TOTAL</b>	<b>2587</b>	<b>24</b>	<b>0.93</b>	<b>1.75</b>	<b>0.65 **</b>	<b>(0.41, 0.96)</b>	<b>2199</b>	<b>0.49</b>
<b>NYP Hospital - Queens</b>								
Chiu Sungkin	40	0	0.00	0.20	0.00	(0.00,56.27)	40	0.00
Chiu Sungwai	52	0	0.00	0.18	0.00	(0.00,48.56)	52	0.00
Dai X	375	9	2.40	1.74	1.69	(0.77, 3.20)	289	1.31
#David M	19	0	0.00	0.20	0.00	(0.00,100.0)	19	0.00
##Grunwald A	43	1	2.33	1.28	2.21	(0.03,12.28)	28	3.18
##Gupta R	55	1	1.82	0.83	2.68	(0.03,14.90)	52	1.91
Gustafson G	414	6	1.45	1.35	1.31	(0.48, 2.86)	278	0.67
##Koss J	14	0	0.00	1.82	0.00	(0.00,17.53)	3	0.00
Lee H	183	0	0.00	0.20	0.00	(0.00,12.16)	183	0.00
Moustakakis E	383	0	0.00	0.73	0.00	(0.00, 1.60)	290	0.00
##Papadakos S	118	2	1.69	1.94	1.07	(0.12, 3.85)	76	1.42
#Park C	274	0	0.00	0.27	0.00	(0.00, 6.11)	274	0.00
##Sharma A	4	1	25.00	1.37	22.32	(0.29,100.0)	.	.
##Slotwiner A	8	0	0.00	7.68	0.00	(0.00, 7.28)	.	.
All Others	223	2	0.90	1.03	1.06	(0.12, 3.82)	162	1.61
<b>TOTAL</b>	<b>2205</b>	<b>22</b>	<b>1.00</b>	<b>1.03</b>	<b>1.18</b>	<b>(0.74, 1.79)</b>	<b>1746</b>	<b>1.01</b>
<b>NYP Westchester (Lawrence Hospital)</b>								
#Ali Z	18	0	0.00	4.96	0.00	(0.00, 5.01)	9	0.00
#Apfelbaum M	73	1	1.37	1.33	1.25	(0.02, 6.98)	41	0.00
##Green P	31	0	0.00	2.00	0.00	(0.00, 7.21)	19	0.00
##Hjemdahl-Monsen	355	2	0.56	1.08	0.63	(0.07, 2.29)	310	0.00
#Irobunda C	12	1	8.33	2.70	3.76	(0.05,20.91)	.	.
##Kalapatapu K	396	4	1.01	0.92	1.34	(0.36, 3.42)	348	1.43
#Nazif T	5	0	0.00	0.53	0.00	(0.00,100.0)	4	0.00
#Patel Amisha	8	0	0.00	1.20	0.00	(0.00,46.75)	.	.
#Pucillo A	2	0	0.00	0.15	0.00	(0.00,100.0)	2	0.00
Shih Anthony	48	0	0.00	0.96	0.00	(0.00, 9.75)	38	0.00
#Vahl T	20	2	10.00	2.66	4.58	(0.51,16.53)	6	0.00
<b>TOTAL</b>	<b>968</b>	<b>10</b>	<b>1.03</b>	<b>1.18</b>	<b>1.07</b>	<b>(0.51, 1.96)</b>	<b>777</b>	<b>0.62</b>

Table 5, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>NYU Hospitals Center</b>								
##Aslam Ahmad	21	0	0.00	0.32	0.00	(0.00,66.43)	21	0.00
#Attubato M	1394	5	0.36	0.71	0.62	(0.20, 1.44)	1320	0.31
#Babaev A	785	2	0.25	0.46	0.67	(0.08, 2.43)	768	0.28
#Bangalore S	77	1	1.30	1.75	0.91	(0.01, 5.04)	64	0.00
#Coppola J	94	0	0.00	0.57	0.00	(0.00, 8.31)	85	0.00
#David M	382	1	0.26	0.26	1.23	(0.02, 6.87)	382	0.78
##Farid A	158	0	0.00	0.27	0.00	(0.00,10.41)	158	0.00
Feit F	500	0	0.00	0.38	0.00	(0.00, 2.35)	490	0.00
#Fernaine G	47	0	0.00	0.40	0.00	(0.00,23.69)	47	0.00
##Grunwald A	2	0	0.00	0.31	0.00	(0.00,100.0)	2	0.00
#Iqbal S	16	0	0.00	2.15	0.00	(0.00,13.01)	8	0.00
#Jayasundera T	200	1	0.50	0.23	2.61	(0.03,14.49)	200	1.65
#Palkhiwala S	377	0	0.00	0.24	0.00	(0.00, 4.96)	377	0.00
##Papadakos S	359	2	0.56	0.63	1.08	(0.12, 3.89)	357	0.92
#Razzouk L	619	3	0.48	0.89	0.67	(0.13, 1.95)	540	0.42
#Sanghi P	76	0	0.00	0.18	0.00	(0.00,32.02)	76	0.00
#Serrano-Gomez C	305	4	1.31	0.71	2.24	(0.60, 5.74)	281	1.73
#Shah B	26	1	3.85	1.22	3.85	(0.05,21.43)	12	0.00
##Sharma A	143	0	0.00	1.04	0.00	(0.00, 3.02)	140	0.00
#Singh T	78	0	0.00	0.16	0.00	(0.00,35.84)	78	0.00
Slater J	308	5	1.62	1.14	1.73	(0.56, 4.04)	265	2.11
##Slotwiner A	66	1	1.52	2.06	0.90	(0.01, 4.99)	61	0.00
#Smilowitz N	67	0	0.00	1.34	0.00	(0.00, 4.96)	32	0.00
##Srivastava S	22	0	0.00	0.31	0.00	(0.00,64.89)	22	0.00
Staniloae C	132	3	2.27	0.77	3.58	(0.72,10.46)	122	0.95
#Vales L	71	0	0.00	1.74	0.00	(0.00, 3.61)	57	0.00
Williams M	33	1	3.03	2.71	1.36	(0.02, 7.59)	31	1.09
All Others	276	6	2.17	1.34	1.98	(0.72, 4.32)	228	1.36
<b>TOTAL</b>	<b>6634</b>	<b>36</b>	<b>0.54</b>	<b>0.68</b>	<b>0.97</b>	<b>(0.68, 1.34)</b>	<b>6224</b>	<b>0.57</b>
<b>NYU Langone Hospital-Brooklyn</b>								
Alhaddad B	126	0	0.00	1.11	0.00	(0.00, 3.20)	86	0.00
##Aslam Ahmad	2	0	0.00	0.16	0.00	(0.00,100.0)	2	0.00
##Dominguez Alvaro	15	0	0.00	0.83	0.00	(0.00,35.90)	15	0.00
##Farid A	2	0	0.00	0.60	0.00	(0.00,100.0)	.	.
#Fernaine G	261	3	1.15	1.27	1.10	(0.22, 3.22)	213	1.30
##Fuschetto D	37	1	2.70	3.75	0.88	(0.01, 4.88)	9	0.00
##Fuschetto O	68	1	1.47	2.91	0.62	(0.01, 3.43)	34	0.00
##Hoyek W	86	0	0.00	2.35	0.00	(0.00, 2.21)	52	0.00
#Kandov R	37	0	0.00	4.27	0.00	(0.00, 2.83)	4	0.00
##Lee P C	27	0	0.00	0.84	0.00	(0.00,19.77)	23	0.00
#Royzman R	33	0	0.00	3.14	0.00	(0.00, 4.32)	11	0.00
##Sharma A	117	2	1.71	1.45	1.44	(0.16, 5.20)	85	0.00
##Slotwiner A	106	2	1.89	1.34	1.72	(0.19, 6.22)	77	4.51
##Srivastava S	58	0	0.00	0.52	0.00	(0.00,14.96)	57	0.00
All Others	2	0	0.00	0.63	0.00	(0.00,100.0)	1	0.00
<b>TOTAL</b>	<b>977</b>	<b>9</b>	<b>0.92</b>	<b>1.69</b>	<b>0.66</b>	<b>(0.30, 1.26)</b>	<b>669</b>	<b>0.88</b>

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>NYU Winthrop Hospital</b>								
##Bagga R	177	1	0.56	0.58	1.19	(0.02, 6.62)	175	0.87
#Blumenthal S	1	0	0.00	0.40	0.00	(0.00,100.0)	1	0.00
##Caselnova R	9	0	0.00	0.60	0.00	(0.00,82.58)	8	0.00
##Chengot T	48	1	2.08	1.38	1.84	(0.02,10.26)	36	0.00
Daggubati R	305	8	2.62	1.93	1.66	(0.71, 3.27)	192	1.93
##Dhama B	3	0	0.00	0.50	0.00	(0.00,100.0)	3	0.00
Donohue D	223	3	1.35	1.35	1.22	(0.24, 3.56)	166	1.12
##Franco J	3	0	0.00	0.79	0.00	(0.00,100.0)	3	0.00
#Galler B	70	0	0.00	0.47	0.00	(0.00,13.52)	68	0.00
#Gambino A	620	6	0.97	1.18	1.00	(0.36, 2.18)	537	0.21
Green S	203	3	1.48	1.42	1.26	(0.25, 3.70)	115	0.00
##Grunwald A	11	1	9.09	1.88	5.90	(0.08,32.81)	11	3.99
##Joseph S	8	0	0.00	0.10	0.00	(0.00,100.0)	8	0.00
#Khan W	26	0	0.00	0.90	0.00	(0.00,19.16)	26	0.00
##Khurana D	2	0	0.00	0.10	0.00	(0.00,100.0)	2	0.00
Marzo K	189	0	0.00	0.76	0.00	(0.00, 3.10)	149	0.00
#Mousa T	52	0	0.00	0.28	0.00	(0.00,30.45)	52	0.00
#Naidu S	17	0	0.00	0.31	0.00	(0.00,85.93)	17	0.00
##Papadakos S	17	0	0.00	1.24	0.00	(0.00,21.15)	16	0.00
##Patel R B	2	0	0.00	0.08	0.00	(0.00,100.0)	2	0.00
#Rusovici A	31	1	3.23	3.01	1.31	(0.02, 7.27)	23	0.00
#Schwartz R	1008	14	1.39	1.39	1.22	(0.66, 2.04)	898	0.63
#Smyrlis A	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
##Yadav S	19	0	0.00	0.39	0.00	(0.00,60.09)	19	0.00
#Zisfein J	72	0	0.00	0.53	0.00	(0.00,11.71)	72	0.00
<b>TOTAL</b>	<b>3117</b>	<b>38</b>	<b>1.22</b>	<b>1.25</b>	<b>1.19</b>	<b>(0.84, 1.63)</b>	<b>2600</b>	<b>0.65</b>
<b>Niagara Falls Memorial Medical Center</b>								
#Chaudhry E	31	0	0.00	0.92	0.00	(0.00,15.64)	25	0.00
##Conley J	147	1	0.68	0.52	1.60	(0.02, 8.90)	130	0.00
#Dalal K	72	0	0.00	0.97	0.00	(0.00, 6.40)	56	0.00
#Dashkoff N	144	0	0.00	1.37	0.00	(0.00, 2.26)	89	0.00
##Farhi E	1	0	0.00	2.51	0.00	(0.00,100.0)	.	.
#Gelormini J	7	0	0.00	1.26	0.00	(0.00,50.56)	2	0.00
#Haq N	3	0	0.00	0.95	0.00	(0.00,100.0)	.	.
#Masud Ali	10	0	0.00	1.55	0.00	(0.00,28.90)	6	0.00
#Meltser H	1	0	0.00	0.29	0.00	(0.00,100.0)	1	0.00
##Morris W	3	0	0.00	0.94	0.00	(0.00,100.0)	.	.
##Phadke K	5	0	0.00	4.23	0.00	(0.00,21.15)	.	.
<b>TOTAL</b>	<b>424</b>	<b>1</b>	<b>0.24</b>	<b>1.01</b>	<b>0.29</b>	<b>(0.00, 1.59)</b>	<b>309</b>	<b>0.00</b>

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>North Shore University Hospital</b>								
#Blumenthal S	80	0	0.00	0.40	0.00	(0.00,13.97)	80	0.00
#Boutis L	1028	10	0.97	1.08	1.10	(0.53, 2.02)	870	0.86
##Dhama B	16	0	0.00	0.59	0.00	(0.00,47.45)	14	0.00
#Friedman G	82	1	1.22	0.37	4.02	(0.05,22.35)	82	2.71
##Fuschetto D	29	0	0.00	0.59	0.00	(0.00,26.31)	28	0.00
##Fuschetto O	18	0	0.00	1.05	0.00	(0.00,23.59)	17	0.00
##Happes M	3	0	0.00	0.12	0.00	(0.00,100.0)	3	0.00
##Hormozi S	1	0	0.00	4.96	0.00	(0.00,90.22)	1	0.00
#Husain S I	5	0	0.00	2.77	0.00	(0.00,32.31)	5	0.00
#Jauhar R	1663	21	1.26	0.99	1.55	(0.96, 2.37)	1413	0.95
##Joseph S	7	0	0.00	0.21	0.00	(0.00,100.0)	7	0.00
#Kaplan B	2047	21	1.03	1.08	1.16	(0.72, 1.78)	1830	0.65
##Katz S	35	0	0.00	1.85	0.00	(0.00, 6.90)	28	0.00
##Khurana D	2	0	0.00	0.97	0.00	(0.00,100.0)	2	0.00
#Kim M	30	0	0.00	0.37	0.00	(0.00,39.84)	30	0.00
##Koss J	186	2	1.08	0.78	1.69	(0.19, 6.10)	180	1.13
##Kruger A	113	2	1.77	1.16	1.86	(0.21, 6.73)	109	1.31
#Lee A	71	0	0.00	2.92	0.00	(0.00, 2.16)	20	0.00
#Marchant D	108	2	1.85	1.63	1.38	(0.16, 4.99)	70	2.10
#Meraj P	875	9	1.03	1.40	0.90	(0.41, 1.71)	730	0.52
#Mignatti A	52	1	1.92	1.03	2.29	(0.03,12.72)	49	1.44
##Ong Lawrence	31	0	0.00	0.58	0.00	(0.00,24.69)	31	0.00
##Papadacos S	6	0	0.00	3.02	0.00	(0.00,24.71)	6	0.00
##Patcha R	12	0	0.00	0.47	0.00	(0.00,79.13)	12	0.00
#Polena S	31	0	0.00	0.82	0.00	(0.00,17.52)	31	0.00
#Poumpouridis K	118	1	0.85	0.78	1.32	(0.02, 7.36)	111	0.91
#Rutkin B	83	3	3.61	1.49	2.96	(0.60, 8.65)	47	0.00
#Singh A	159	3	1.89	1.74	1.32	(0.27, 3.86)	105	1.15
#Srinivas G	37	0	0.00	0.45	0.00	(0.00,27.09)	37	0.00
#Strizik B	51	0	0.00	0.85	0.00	(0.00,10.29)	51	0.00
##Weinberg M	124	1	0.81	1.96	0.50	(0.01, 2.79)	67	0.00
All Others	111	0	0.00	1.28	0.00	(0.00, 3.15)	80	0.00
<b>TOTAL</b>	<b>7214</b>	<b>77</b>	<b>1.07</b>	<b>1.12</b>	<b>1.16</b>	<b>(0.91, 1.45)</b>	<b>6146</b>	<b>0.72</b>
<b>Olean General Hospital</b>								
##Chockalingam S	36	0	0.00	3.20	0.00	(0.00, 3.88)	19	0.00
##Farhi E	4	0	0.00	2.12	0.00	(0.00,52.63)	.	.
#Iyer S	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
#Iyer V	29	0	0.00	2.15	0.00	(0.00, 7.16)	14	0.00
Mallavarapu C	356	7	1.97	1.60	1.49	(0.60, 3.08)	184	0.62
##Morris W	7	0	0.00	2.49	0.00	(0.00,25.64)	3	0.00
##Phadke K	10	0	0.00	0.99	0.00	(0.00,44.95)	1	0.00
##Sullivan P	3	0	0.00	2.73	0.00	(0.00,54.64)	.	.
<b>TOTAL</b>	<b>446</b>	<b>7</b>	<b>1.57</b>	<b>1.78</b>	<b>1.08</b>	<b>(0.43, 2.22)</b>	<b>222</b>	<b>0.48</b>
<b>Peconic Bay Medical Center</b>								
##Gruberg L	22	0	0.00	1.48	0.00	(0.00,13.77)	7	0.00
#Heller L	8	1	12.50	0.64	23.73	(0.31,100.0)	3	0.00
##Katz S	145	3	2.07	0.80	3.15	(0.63, 9.22)	113	1.56
##Lederman S	76	2	2.63	0.74	4.34	(0.49,15.66)	51	4.31
All Others	88	2	2.27	1.22	2.27	(0.26, 8.20)	55	0.00
<b>TOTAL</b>	<b>339</b>	<b>8</b>	<b>2.36</b>	<b>0.94</b>	<b>3.08 *</b>	<b>(1.32, 6.06)</b>	<b>229</b>	<b>1.60</b>
<b>Richmond University Medical Center</b>								
##Duvvuri S	153	1	0.65	0.75	1.06	(0.01, 5.89)	128	1.19
##Farid A	3	0	0.00	0.21	0.00	(0.00,100.0)	3	0.00
#Gala B	135	2	1.48	1.55	1.17	(0.13, 4.22)	103	1.07
#Khan Abdullah	5	0	0.00	2.46	0.00	(0.00,36.41)	2	0.00
Rotatori F	115	2	1.74	1.95	1.09	(0.12, 3.93)	63	0.00
#Snyder S	5	0	0.00	1.37	0.00	(0.00,65.38)	.	.
#Swamy S	49	1	2.04	1.32	1.89	(0.02,10.52)	38	0.00
##Zgheib M	15	0	0.00	1.71	0.00	(0.00,17.44)	2	0.00
All Others	46	1	2.17	1.70	1.56	(0.02, 8.65)	24	0.00
<b>TOTAL</b>	<b>526</b>	<b>7</b>	<b>1.33</b>	<b>1.40</b>	<b>1.16</b>	<b>(0.46, 2.39)</b>	<b>363</b>	<b>0.63</b>

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>Rochester General Hospital</b>								
#Abtahian F	367	9	2.45	1.89	1.58	(0.72, 3.00)	256	1.56
#Ahmed A	459	6	1.31	1.32	1.21	(0.44, 2.63)	331	0.53
##Chockalingam S	132	1	0.76	1.19	0.77	(0.01, 4.30)	108	0.91
#Depta J	194	2	1.03	1.23	1.02	(0.11, 3.68)	146	0.55
#Gacioch G	145	2	1.38	1.10	1.54	(0.17, 5.54)	104	0.00
#Hall C	565	15	2.65	1.48	2.19 *	(1.22, 3.61)	419	0.99
##Ong Ling	1137	19	1.67	0.96	2.11 *	(1.27, 3.30)	1028	1.23
#Patel T	393	8	2.04	1.88	1.32	(0.57, 2.60)	292	0.74
Scortichini D	138	1	0.72	0.48	1.84	(0.02,10.25)	133	1.42
#Singer G	289	1	0.35	1.03	0.41	(0.01, 2.28)	281	0.36
<b>TOTAL</b>	<b>3819</b>	<b>64</b>	<b>1.68</b>	<b>1.28</b>	<b>1.59 *</b>	<b>(1.23, 2.04)</b>	<b>3098</b>	<b>0.92</b>
<b>Samaritan Hospital</b>								
#Ali-Hasan S	125	4	3.20	0.64	6.07 *	(1.63,15.54)	98	5.44 *
#Bishop G	26	0	0.00	1.36	0.00	(0.00,12.66)	10	0.00
##Delago A	22	1	4.55	3.02	1.83	(0.02,10.20)	1	0.00
##Esper D	21	1	4.76	2.11	2.76	(0.04,15.33)	4	0.00
##Maroney J	48	1	2.08	1.55	1.64	(0.02, 9.12)	14	0.00
#Martinelli M	12	1	8.33	1.95	5.20	(0.07,28.92)	4	0.00
##Papaleo R	496	7	1.41	0.70	2.45	(0.98, 5.06)	409	2.14
#Roccario E	3	0	0.00	0.56	0.00	(0.00,100.0)	2	0.00
##Winston B	30	1	3.33	1.03	3.96	(0.05,22.02)	7	0.00
All Others	40	0	0.00	0.65	0.00	(0.00,17.24)	29	0.00
<b>TOTAL</b>	<b>823</b>	<b>16</b>	<b>1.94</b>	<b>0.89</b>	<b>2.67 *</b>	<b>(1.53, 4.34)</b>	<b>578</b>	<b>2.38 *</b>
<b>Saratoga Hospital</b>								
##Amsalem Y	26	1	3.85	0.82	5.75	(0.08,31.97)	17	9.30
#Grella R	199	7	3.52	1.59	2.70	(1.08, 5.57)	129	2.15
Idelchik G	258	1	0.39	1.21	0.39	(0.01, 2.17)	191	0.00
#McNulty P	137	3	2.19	2.18	1.22	(0.25, 3.58)	68	0.00
##Nappi A	8	0	0.00	1.59	0.00	(0.00,35.16)	1	0.00
##Papaleo R	1	0	0.00	1.83	0.00	(0.00,100.0)	.	.
<b>TOTAL</b>	<b>629</b>	<b>12</b>	<b>1.91</b>	<b>1.53</b>	<b>1.52</b>	<b>(0.78, 2.65)</b>	<b>406</b>	<b>1.31</b>
<b>South Shore University Hospital</b>								
##Bagga R	12	0	0.00	0.30	0.00	(0.00,100.0)	12	0.00
##CaselNova R	27	0	0.00	2.10	0.00	(0.00, 7.88)	6	0.00
##Chengot T	3	0	0.00	0.63	0.00	(0.00,100.0)	2	0.00
##Coven D	1	0	0.00	0.28	0.00	(0.00,100.0)	1	0.00
##Deutsch E	64	1	1.56	1.31	1.45	(0.02, 8.09)	48	0.00
#Galler B	1	0	0.00	1.24	0.00	(0.00,100.0)	1	0.00
#Gandotra P	602	9	1.50	1.07	1.70	(0.78, 3.23)	534	1.30
##Gruberg L	230	2	0.87	0.97	1.10	(0.12, 3.97)	200	0.00
##Happes M	79	0	0.00	1.49	0.00	(0.00, 3.80)	58	0.00
##Hormozi S	474	3	0.63	0.45	1.70	(0.34, 4.98)	444	1.67
##Katz S	2	0	0.00	0.22	0.00	(0.00,100.0)	2	0.00
#Korlipara G	34	0	0.00	0.35	0.00	(0.00,37.94)	34	0.00
##Lederman S	37	2	5.41	1.25	5.27	(0.59,19.03)	37	3.33
##Lee P C	2	0	0.00	4.79	0.00	(0.00,46.73)	1	0.00
#Lee P J	273	2	0.73	0.54	1.65	(0.18, 5.94)	256	1.38
##Ong Lawrence	46	0	0.00	0.82	0.00	(0.00,11.85)	42	0.00
##Patcha R	11	0	0.00	0.40	0.00	(0.00,100.0)	11	0.00
##Patel R B	46	1	2.17	2.32	1.14	(0.01, 6.35)	5	0.00
#Poumpouridis K	9	0	0.00	0.40	0.00	(0.00,100.0)	8	0.00
#Reich D	221	3	1.36	0.85	1.94	(0.39, 5.68)	194	1.41
##Selim S	411	6	1.46	0.99	1.80	(0.66, 3.91)	351	1.29
All Others	20	0	0.00	1.34	0.00	(0.00,16.72)	20	0.00
<b>TOTAL</b>	<b>2605</b>	<b>29</b>	<b>1.11</b>	<b>0.90</b>	<b>1.51</b>	<b>(1.01, 2.17)</b>	<b>2267</b>	<b>1.13</b>

Table 5, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>St. Barnabas Hospital</b>								
##Amsalem Y	17	0	0.00	2.97	0.00	(0.00, 8.87)	3	0.00
##Bortnick A	1	0	0.00	0.17	0.00	(0.00,100.0)	1	0.00
##Celaj S	340	4	1.18	0.99	1.45	(0.39, 3.72)	298	0.80
##Chavarria N	13	1	7.69	1.25	7.52	(0.10,41.84)	3	0.00
##Greenberg M	2	0	0.00	0.95	0.00	(0.00,100.0)	1	0.00
##Johnson M	9	0	0.00	1.28	0.00	(0.00,38.83)	3	0.00
##Monrad E	2	0	0.00	1.69	0.00	(0.00,100.0)	1	0.00
##Pyo R	8	0	0.00	2.06	0.00	(0.00,27.18)	2	0.00
##Rauch J	6	0	0.00	2.09	0.00	(0.00,35.67)	1	0.00
##Shaqra H	14	0	0.00	2.77	0.00	(0.00,11.51)	2	0.00
##Weisz G	3	0	0.00	4.08	0.00	(0.00,36.53)	1	0.00
##Wiley J	5	0	0.00	3.66	0.00	(0.00,24.43)	2	0.00
All Others	3	0	0.00	0.59	0.00	(0.00,100.0)	.	.
<b>TOTAL</b>	<b>423</b>	<b>5</b>	<b>1.18</b>	<b>1.23</b>	<b>1.17</b>	<b>(0.38, 2.74)</b>	<b>318</b>	<b>0.70</b>
<b>St. Catherine of Siena Medical Center</b>								
##Deutsch E	96	2	2.08	1.06	2.41	(0.27, 8.69)	76	2.66
##Franco J	6	0	0.00	0.27	0.00	(0.00,100.0)	6	0.00
##Happes M	178	3	1.69	0.80	2.57	(0.52, 7.52)	147	0.82
##Hormozi S	112	1	0.89	1.10	0.99	(0.01, 5.53)	94	0.90
#Khan S	102	3	2.94	1.51	2.37	(0.48, 6.93)	76	3.09
#Patel Neal	11	0	0.00	0.48	0.00	(0.00,84.30)	9	0.00
##Patel R B	90	0	0.00	1.05	0.00	(0.00, 4.75)	58	0.00
#Rosenband M	127	1	0.79	1.46	0.66	(0.01, 3.67)	115	0.47
##Weinstein J	30	0	0.00	2.30	0.00	(0.00, 6.49)	16	0.00
<b>TOTAL</b>	<b>752</b>	<b>10</b>	<b>1.33</b>	<b>1.16</b>	<b>1.39</b>	<b>(0.67, 2.56)</b>	<b>597</b>	<b>1.18</b>
<b>St. Elizabeth Medical Center</b>								
Amponsah M	284	9	3.17	1.61	2.40	(1.09, 4.55)	217	1.14
Bhan R	602	11	1.83	1.08	2.05	(1.02, 3.68)	485	1.86
#Kumar P	21	0	0.00	1.28	0.00	(0.00,16.68)	19	0.00
Maclsaac H	517	17	3.29	2.04	1.97	(1.14, 3.15)	395	1.61
Mathew T C	127	4	3.15	1.48	2.60	(0.70, 6.65)	76	1.92
Patel Ashok	119	1	0.84	1.41	0.73	(0.01, 4.04)	65	2.45
Sassower M	718	10	1.39	1.03	1.65	(0.79, 3.04)	608	0.96
Varma P	75	2	2.67	1.38	2.36	(0.26, 8.50)	44	4.93
All Others	93	2	2.15	1.71	1.53	(0.17, 5.52)	68	2.23
<b>TOTAL</b>	<b>2556</b>	<b>56</b>	<b>2.19</b>	<b>1.39</b>	<b>1.92 *</b>	<b>(1.45, 2.50)</b>	<b>1977</b>	<b>1.52 *</b>

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>St. Francis Hospital</b>								
Abittan M	347	0	0.00	0.94	0.00	(0.00, 1.36)	330	0.00
Berke A	155	4	2.58	1.89	1.66	(0.45, 4.25)	138	1.88
##Chengot T	4	0	0.00	0.26	0.00	(0.00,100.0)	4	0.00
Chung W	349	3	0.86	1.50	0.70	(0.14, 2.05)	301	0.70
##Deutsch E	4	0	0.00	0.08	0.00	(0.00,100.0)	4	0.00
Ezratty A	222	2	0.90	1.02	1.08	(0.12, 3.89)	184	0.50
#Friedman G	345	2	0.58	1.05	0.67	(0.08, 2.43)	323	0.58
Goldman A B	32	1	3.13	1.61	2.37	(0.03,13.18)	19	0.00
##Grunwald A	165	1	0.61	0.90	0.82	(0.01, 4.56)	130	0.00
#Jeremias A	577	2	0.35	1.68	0.25 **	(0.03, 0.91)	510	0.27
##Koss J	6	0	0.00	1.41	0.00	(0.00,52.93)	5	0.00
Lituchy A	515	5	0.97	1.32	0.90	(0.29, 2.10)	471	0.34
Madrid A	214	4	1.87	1.17	1.95	(0.52, 4.99)	192	0.65
Mezzafonte S	339	3	0.88	0.96	1.13	(0.23, 3.29)	310	0.67
Minadeo J	125	2	1.60	1.16	1.68	(0.19, 6.05)	111	0.98
#Moses J	101	1	0.99	0.54	2.23	(0.03,12.40)	100	1.52
Oruci E	179	0	0.00	1.01	0.00	(0.00, 2.47)	165	0.00
Pappas T	342	3	0.88	1.06	1.01	(0.20, 2.96)	331	1.04
#Park C	109	1	0.92	0.57	1.95	(0.03,10.83)	101	2.03
##Patcha R	3	0	0.00	0.80	0.00	(0.00,100.0)	3	0.00
Patel M	87	1	1.15	0.96	1.45	(0.02, 8.08)	84	0.00
#Petrossian G	618	7	1.13	1.19	1.16	(0.46, 2.38)	613	0.84
#Reddy K	324	6	1.85	1.87	1.21	(0.44, 2.63)	273	1.14
Shlofmitz R	3026	14	0.46	0.69	0.82	(0.45, 1.38)	2946	0.51
Tsiamtsiouris T	359	4	1.11	1.11	1.22	(0.33, 3.14)	328	0.52
##Weinstein J	7	0	0.00	0.19	0.00	(0.00,100.0)	7	0.00
##Yadav S	196	5	2.55	2.23	1.39	(0.45, 3.25)	168	0.42
<b>TOTAL</b>	<b>8750</b>	<b>71</b>	<b>0.81</b>	<b>1.06</b>	<b>0.93 **</b>	<b>(0.73, 1.17)</b>	<b>8151</b>	<b>0.60</b>
<b>St. Josephs Hospital Health Center</b>								
Amin N	485	7	1.44	1.68	1.05	(0.42, 2.16)	316	0.52
Caputo R	1266	23	1.82	1.65	1.34	(0.85, 2.01)	978	1.05
El-Khally Z	1278	15	1.17	1.51	0.95	(0.53, 1.57)	1056	0.48
Fischi M	659	9	1.37	1.81	0.92	(0.42, 1.74)	466	0.50
#George Anil	1	0	0.00	0.71	0.00	(0.00,100.0)	1	0.00
Iskander A	1263	21	1.66	1.28	1.58	(0.98, 2.42)	1069	1.28
#Kumar P	55	0	0.00	1.10	0.00	(0.00, 7.42)	47	0.00
##Munshi M	1	0	0.00	0.36	0.00	(0.00,100.0)	1	0.00
#O'Hern M	523	6	1.15	1.53	0.92	(0.33, 1.99)	400	0.31
Ojotalayo O	280	2	0.71	1.17	0.74	(0.08, 2.68)	206	0.44
Simons A	340	7	2.06	1.63	1.54	(0.62, 3.18)	207	0.81
<b>TOTAL</b>	<b>6151</b>	<b>90</b>	<b>1.46</b>	<b>1.53</b>	<b>1.17</b>	<b>(0.94, 1.44)</b>	<b>4747</b>	<b>0.76</b>
<b>St. Peter's Hospital</b>								
#Ali-Hasan S	99	2	2.02	2.02	1.22	(0.14, 4.41)	55	0.00
#Bishop G	280	6	2.14	1.92	1.36	(0.50, 2.96)	176	0.62
##Delago A	21	1	4.76	5.52	1.05	(0.01, 5.85)	3	0.00
##Esper D	271	2	0.74	1.08	0.83	(0.09, 3.01)	231	0.44
Khawaja H	19	0	0.00	0.48	0.00	(0.00,48.99)	19	0.00
##Maroney J	206	4	1.94	1.25	1.90	(0.51, 4.86)	152	2.13
#Martinelli M	513	9	1.75	1.12	1.91	(0.87, 3.62)	427	1.26
##Papaleo R	10	1	10.00	1.00	12.24	(0.16,68.08)	.	.
#Roccario E	536	6	1.12	1.14	1.20	(0.44, 2.60)	424	0.69
##Winston B	460	6	1.30	1.00	1.59	(0.58, 3.45)	383	1.87
All Others	31	2	6.45	0.96	8.17	(0.92,29.49)	19	10.01 *
<b>TOTAL</b>	<b>2446</b>	<b>39</b>	<b>1.59</b>	<b>1.27</b>	<b>1.53</b>	<b>(1.09, 2.10)</b>	<b>1889</b>	<b>1.13</b>



Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>Staten Island University Hospital- North</b>								
##Duvvuri S	123	1	0.81	0.53	1.88	(0.02,10.49)	118	1.29
##Farid A	26	0	0.00	0.19	0.00	(0.00,89.25)	26	0.00
#Gala B	23	1	4.35	0.57	9.36	(0.12,52.07)	22	6.71
##Hoyek W	171	1	0.58	0.79	0.90	(0.01, 5.03)	137	1.89
#Kandov R	739	4	0.54	0.84	0.78	(0.21, 2.00)	649	0.59
Malpeso J	173	1	0.58	1.29	0.55	(0.01, 3.04)	122	0.00
Maniatis G	80	1	1.25	1.43	1.07	(0.01, 5.94)	66	1.10
#Royzman R	322	4	1.24	1.38	1.10	(0.30, 2.82)	244	0.65
#Snyder S	146	1	0.68	1.00	0.84	(0.01, 4.66)	113	0.88
#Swamy S	4	0	0.00	0.47	0.00	(0.00,100.0)	3	0.00
Tamburrino F	414	2	0.48	0.69	0.85	(0.10, 3.06)	368	0.92
#Warchol A	50	0	0.00	0.42	0.00	(0.00,21.52)	49	0.00
##Zgheib M	418	3	0.72	0.92	0.95	(0.19, 2.78)	365	1.11
All Others	5	0	0.00	0.63	0.00	(0.00,100.0)	5	0.00
<b>TOTAL</b>	<b>2694</b>	<b>19</b>	<b>0.71</b>	<b>0.92</b>	<b>0.94</b>	<b>(0.57, 1.47)</b>	<b>2287</b>	<b>0.84</b>
<b>Stony Brook Southampton Hospital</b>								
##Bench T	77	1	1.30	1.50	1.05	(0.01, 5.87)	60	0.00
##Chen O	1	0	0.00	0.96	0.00	(0.00,100.0)	.	.
##Franco J	2	0	0.00	0.95	0.00	(0.00,100.0)	.	.
##Hormozi S	1	0	0.00	1.30	0.00	(0.00,100.0)	.	.
##Lederman S	20	0	0.00	1.27	0.00	(0.00,17.66)	16	0.00
#McGlynn S	68	3	4.41	2.12	2.53	(0.51, 7.40)	29	0.00
All Others	38	0	0.00	1.30	0.00	(0.00, 9.07)	27	0.00
<b>TOTAL</b>	<b>207</b>	<b>4</b>	<b>1.93</b>	<b>1.64</b>	<b>1.44</b>	<b>(0.39, 3.68)</b>	<b>132</b>	<b>0.00</b>
<b>Strong Memorial Hospital</b>								
Chaudhary I	216	5	2.31	1.91	1.48	(0.48, 3.46)	105	1.79
Cove C	457	11	2.41	1.52	1.93	(0.96, 3.46)	300	0.95
#Doling M	221	2	0.90	0.99	1.12	(0.13, 4.03)	170	1.13
Garringer J	358	4	1.12	0.82	1.67	(0.45, 4.27)	276	1.46
Krishnamoorthy V	543	13	2.39	1.63	1.79	(0.95, 3.06)	345	0.88
Ling F	405	9	2.22	1.62	1.68	(0.77, 3.18)	249	1.00
Narins C	598	7	1.17	1.40	1.02	(0.41, 2.10)	349	0.00
Stuver T	710	14	1.97	1.65	1.46	(0.80, 2.45)	502	0.69
All Others	48	1	2.08	2.58	0.98	(0.01, 5.47)	29	0.00
<b>TOTAL</b>	<b>3556</b>	<b>66</b>	<b>1.86</b>	<b>1.49</b>	<b>1.52</b>	<b>(1.18, 1.94)</b>	<b>2325</b>	<b>0.83</b>
<b>UHS Wilson Medical Center</b>								
Ahmed O	291	5	1.72	1.30	1.61	(0.52, 3.76)	200	1.27
Kashou H	646	6	0.93	1.11	1.02	(0.37, 2.22)	550	0.68
Rehman Afzal	36	0	0.00	0.91	0.00	(0.00,13.63)	27	0.00
Traverse P	296	3	1.01	1.26	0.98	(0.20, 2.86)	207	0.00
Vitellas M	434	3	0.69	1.16	0.72	(0.15, 2.12)	336	0.33
#Yarkoni A	370	5	1.35	1.83	0.90	(0.29, 2.10)	298	1.06
<b>TOTAL</b>	<b>2073</b>	<b>22</b>	<b>1.06</b>	<b>1.29</b>	<b>1.00</b>	<b>(0.63, 1.51)</b>	<b>1618</b>	<b>0.72</b>
<b>UVM Health Network - CVPH</b>								
Carey K	32	1	3.13	2.05	1.86	(0.02,10.33)	24	2.15
Garrand T	218	2	0.92	1.46	0.77	(0.09, 2.77)	153	0.00
Gauthier E	781	10	1.28	1.38	1.13	(0.54, 2.08)	554	1.09
Ishac R	1021	13	1.27	1.29	1.20	(0.64, 2.06)	744	1.20
All Others	54	0	0.00	2.08	0.00	(0.00, 3.98)	38	0.00
<b>TOTAL</b>	<b>2106</b>	<b>26</b>	<b>1.23</b>	<b>1.37</b>	<b>1.10</b>	<b>(0.72, 1.61)</b>	<b>1513</b>	<b>1.00</b>

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>Unity Hospital of Rochester</b>								
#Abtahian F	63	0	0.00	1.74	0.00	(0.00, 4.08)	35	0.00
#Ahmed A	96	4	4.17	1.90	2.67	(0.72, 6.84)	54	1.66
##Chockalingam S	53	2	3.77	2.05	2.25	(0.25, 8.11)	20	5.35
#Depta J	39	1	2.56	1.56	2.00	(0.03,11.12)	19	0.00
#Gacioch G	31	1	3.23	1.26	3.12	(0.04,17.38)	16	0.00
#Hall C	87	5	5.75	2.39	2.94	(0.95, 6.85)	58	1.24
##Ong Ling	1	0	0.00	0.05	0.00	(0.00,100.0)	1	0.00
#Patel T	494	10	2.02	1.48	1.66	(0.80, 3.06)	388	0.84
#Singer G	14	1	7.14	4.39	1.98	(0.03,11.04)	10	2.44
<b>TOTAL</b>	<b>878</b>	<b>24</b>	<b>2.73</b>	<b>1.71</b>	<b>1.95 *</b>	<b>(1.25, 2.90)</b>	<b>601</b>	<b>1.08</b>
<b>University Hospital at Downstate</b>								
#Badero O	8	0	0.00	0.94	0.00	(0.00,59.18)	8	0.00
#Castillo R	27	1	3.70	6.03	0.75	(0.01, 4.17)	2	0.00
Cavusoglu E	261	3	1.15	2.19	0.64	(0.13, 1.87)	173	0.56
#Chadow H	16	1	6.25	4.43	1.72	(0.02, 9.57)	1	0.00
Dogar M	115	4	3.48	1.34	3.17	(0.85, 8.11)	100	0.70
Feit A	118	2	1.69	1.71	1.21	(0.14, 4.37)	87	0.86
#Hegde S	146	3	2.05	2.36	1.06	(0.21, 3.10)	94	0.00
John S	47	3	6.38	2.82	2.76	(0.55, 8.06)	41	2.12
Marmur J	254	12	4.72	2.30	2.50 *	(1.29, 4.37)	154	1.54
#Rehman Asif	1	0	0.00	1.13	0.00	(0.00,100.0)	1	0.00
#Rehman S	25	0	0.00	1.51	0.00	(0.00,11.83)	22	0.00
#Russell M	1	0	0.00	1.62	0.00	(0.00,100.0)	1	0.00
All Others	16	2	12.50	1.27	11.98 *	(1.35,43.27)	13	0.00
<b>TOTAL</b>	<b>1035</b>	<b>31</b>	<b>3.00</b>	<b>2.21</b>	<b>1.65</b>	<b>(1.12, 2.34)</b>	<b>697</b>	<b>0.80</b>
<b>University Hospital at Stony Brook</b>								
##Bench T	48	1	2.08	1.23	2.07	(0.03,11.51)	38	2.67
##Chen O	280	6	2.14	1.67	1.56	(0.57, 3.40)	170	1.42
Dervan J	174	0	0.00	1.09	0.00	(0.00, 2.35)	165	0.00
##Franco J	4	0	0.00	0.14	0.00	(0.00,100.0)	4	0.00
##Gill K	18	2	11.11	2.00	6.76	(0.76,24.42)	18	4.80
##Gruberg L	190	5	2.63	1.86	1.73	(0.56, 4.03)	134	1.31
#Jeremias A	30	0	0.00	2.28	0.00	(0.00, 6.52)	12	0.00
##Joseph S	64	1	1.56	1.28	1.49	(0.02, 8.27)	64	0.90
#Khan S	120	2	1.67	1.19	1.70	(0.19, 6.14)	117	0.59
#Korlipara G	269	4	1.49	0.89	2.03	(0.55, 5.19)	250	1.12
##Kruger A	4	0	0.00	0.18	0.00	(0.00,100.0)	4	0.00
Lawson W	531	11	2.07	1.65	1.53	(0.76, 2.74)	358	0.90
##Lederman S	44	0	0.00	1.04	0.00	(0.00, 9.81)	40	0.00
Mani A	462	11	2.38	1.80	1.61	(0.80, 2.89)	332	0.87
#McGlynn S	1	0	0.00	0.36	0.00	(0.00,100.0)	1	0.00
Montellese D	115	1	0.87	1.23	0.86	(0.01, 4.79)	110	0.51
Parikh Puja	312	6	1.92	1.63	1.44	(0.53, 3.14)	200	0.99
#Patel Neal	286	3	1.05	0.78	1.65	(0.33, 4.81)	263	0.90
#Pulipati B	22	0	0.00	1.12	0.00	(0.00,18.18)	22	0.00
##Pyo R	570	10	1.75	1.81	1.18	(0.56, 2.17)	462	0.78
#Rosenband M	167	4	2.40	1.64	1.78	(0.48, 4.56)	154	1.06
##Weinstein J	478	4	0.84	0.96	1.06	(0.28, 2.71)	451	0.85
All Others	58	2	3.45	2.35	1.79	(0.20, 6.46)	38	1.28
<b>TOTAL</b>	<b>4247</b>	<b>73</b>	<b>1.72</b>	<b>1.46</b>	<b>1.44</b>	<b>(1.13, 1.81)</b>	<b>3407</b>	<b>0.90</b>
<b>Upstate University Hospital - SUNY</b>								
Chaudhuri D	288	11	3.82	1.86	2.51 *	(1.25, 4.49)	200	1.96
Ford T	91	4	4.40	1.66	3.23	(0.87, 8.27)	36	1.99
Kozman H	191	3	1.57	1.84	1.04	(0.21, 3.04)	101	0.69
##Munshi M	35	1	2.86	0.93	3.75	(0.05,20.87)	24	0.00
#O'Hern M	13	0	0.00	1.04	0.00	(0.00,33.06)	10	0.00
All Others	21	2	9.52	6.03	1.93	(0.22, 6.95)	2	0.00
<b>TOTAL</b>	<b>639</b>	<b>21</b>	<b>3.29</b>	<b>1.89</b>	<b>2.12 *</b>	<b>(1.31, 3.23)</b>	<b>373</b>	<b>1.50</b>

Table 5, continued

	Cases	Deaths	All Cases			95% CI for RAMR	Non-emergency	
			OMR	EMR	RAMR		Cases	RAMR
<b>Vassar Brothers Medical Center</b>								
Gorwara S	495	4	0.81	1.77	0.56	(0.15, 1.42)	384	0.00 **
Jafar M	887	12	1.35	1.63	1.01	(0.52, 1.77)	661	0.72
Kantaros L	351	3	0.85	1.28	0.82	(0.16, 2.39)	245	0.00
Narayan R	737	20	2.71	2.39	1.38	(0.84, 2.14)	566	1.04
#Patrello A	301	2	0.66	1.44	0.56	(0.06, 2.03)	244	0.37
Yen M	415	11	2.65	1.44	2.24	(1.12, 4.00)	298	1.63
<b>TOTAL</b>	<b>3186</b>	<b>52</b>	<b>1.63</b>	<b>1.75</b>	<b>1.14</b>	<b>(0.85, 1.49)</b>	<b>2398</b>	<b>0.72</b>
<b>Westchester Medical Center</b>								
Ahmad H	251	4	1.59	2.31	0.84	(0.23, 2.15)	153	0.95
##Charney R	8	0	0.00	0.35	0.00	(0.00,100.0)	6	0.00
Cohen M B	249	6	2.41	1.99	1.47	(0.54, 3.21)	160	1.48
#Heller L	29	0	0.00	1.67	0.00	(0.00, 9.22)	18	0.00
##Messinger D	6	0	0.00	0.26	0.00	(0.00,100.0)	6	0.00
#Naidu S	181	3	1.66	2.21	0.92	(0.18, 2.68)	111	1.32
Rene A	285	2	0.70	1.19	0.72	(0.08, 2.60)	246	0.49
Timmermans R	244	11	4.51	1.80	3.05 *	(1.52, 5.46)	127	3.63 *
All Others	130	5	3.85	2.06	2.27	(0.73, 5.31)	82	0.89
<b>TOTAL</b>	<b>1383</b>	<b>31</b>	<b>2.24</b>	<b>1.86</b>	<b>1.47</b>	<b>(1.00, 2.08)</b>	<b>909</b>	<b>1.27</b>
<b>White Plains Hospital</b>								
##Bliagos D	785	4	0.51	1.00	0.62	(0.17, 1.59)	681	0.17
##Bortnick A	2	0	0.00	1.58	0.00	(0.00,100.0)	.	.
##Celaj S	5	0	0.00	3.50	0.00	(0.00,25.59)	1	0.00
##Charney R	239	5	2.09	0.98	2.62	(0.84, 6.10)	212	2.03
##Greenberg M	258	5	1.94	1.22	1.94	(0.62, 4.52)	178	1.14
##Hjemdahl-Monsen	19	0	0.00	0.70	0.00	(0.00,33.78)	17	0.00
##Johnson M	6	1	16.67	1.08	18.87	(0.25,100.0)	2	0.00
##Kalapatapu K	46	0	0.00	0.51	0.00	(0.00,18.97)	43	0.00
#Menegus M	2	0	0.00	3.49	0.00	(0.00,64.00)	.	.
##Messinger D	192	6	3.13	1.35	2.83	(1.03, 6.16)	152	2.23
##Monrad E	1	0	0.00	0.62	0.00	(0.00,100.0)	1	0.00
<b>TOTAL</b>	<b>1555</b>	<b>21</b>	<b>1.35</b>	<b>1.07</b>	<b>1.54</b>	<b>(0.95, 2.36)</b>	<b>1287</b>	<b>0.89</b>
<b>Statewide Total</b>	<b>157140</b>	<b>1916</b>	<b>1.22</b>				<b>129442</b>	<b>0.79</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, 2017-2019**

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Abtahian F</b>	<b>430</b>	<b>9</b>	<b>2.09</b>	<b>1.87</b>	<b>1.37</b>	<b>(0.62, 2.59)</b>	<b>291</b>	<b>1.42</b>
Rochester General Hosp	367	9	2.45	1.89	1.58	(0.72, 3.00)	256	1.56
Unity Hospital	63	0	0.00	1.74	0.00	(0.00, 4.08)	35	0.00
<b>Ahmed A</b>	<b>555</b>	<b>10</b>	<b>1.80</b>	<b>1.42</b>	<b>1.55</b>	<b>(0.74, 2.84)</b>	<b>385</b>	<b>0.69</b>
Rochester General Hosp	459	6	1.31	1.32	1.21	(0.44, 2.63)	331	0.53
Unity Hospital	96	4	4.17	1.90	2.67	(0.72, 6.84)	54	1.66
<b>Ali Z</b>	<b>499</b>	<b>7</b>	<b>1.40</b>	<b>1.94</b>	<b>0.88</b>	<b>(0.35, 1.82)</b>	<b>463</b>	<b>0.59</b>
NYP Columbia Presby.	481	7	1.46	1.82	0.97	(0.39, 2.00)	454	0.62
NYP Westchester	18	0	0.00	4.96	0.00	(0.00, 5.01)	9	0.00
<b>Ali-Hasan S</b>	<b>224</b>	<b>6</b>	<b>2.68</b>	<b>1.25</b>	<b>2.61</b>	<b>(0.95, 5.68)</b>	<b>153</b>	<b>3.17</b>
Samaritan Hospital	125	4	3.20	0.64	6.07 *	(1.63, 15.54)	98	5.44 *
St. Peter's Hospital	99	2	2.02	2.02	1.22	(0.14, 4.41)	55	0.00
<b>Amsalem Y</b>	<b>415</b>	<b>12</b>	<b>2.89</b>	<b>1.33</b>	<b>2.65 *</b>	<b>(1.37, 4.63)</b>	<b>302</b>	<b>2.33 *</b>
Montefiore - Moses	317	9	2.84	1.25	2.76 *	(1.26, 5.25)	253	1.94
Mount Sinai Morningside	55	2	3.64	1.52	2.92	(0.33, 10.55)	29	4.81
Saratoga Hospital	26	1	3.85	0.82	5.75	(0.08, 31.97)	17	9.30
St. Barnabas Hospital	17	0	0.00	2.97	0.00	(0.00, 8.87)	3	0.00
<b>Apfelbaum M</b>	<b>87</b>	<b>1</b>	<b>1.15</b>	<b>1.19</b>	<b>1.18</b>	<b>(0.02, 6.57)</b>	<b>55</b>	<b>0.00</b>
NYP Columbia Presby.	14	0	0.00	0.43	0.00	(0.00, 74.08)	14	0.00
NYP Westchester	73	1	1.37	1.33	1.25	(0.02, 6.98)	41	0.00
<b>Aslam Ahmad</b>	<b>354</b>	<b>1</b>	<b>0.28</b>	<b>0.25</b>	<b>1.37</b>	<b>(0.02, 7.64)</b>	<b>352</b>	<b>0.88</b>
Mount Sinai Beth Israel	234	1	0.43	0.16	3.26	(0.04, 18.14)	234	1.92
NYP Brooklyn Methodist	97	0	0.00	0.46	0.00	(0.00, 10.08)	95	0.00
NYU Hospitals Center	21	0	0.00	0.32	0.00	(0.00, 66.43)	21	0.00
NYU Langone Hosp-Brooklyn	2	0	0.00	0.16	0.00	(0.00, 100.0)	2	0.00
<b>Aslam Ahmed</b>	<b>291</b>	<b>2</b>	<b>0.69</b>	<b>0.57</b>	<b>1.48</b>	<b>(0.17, 5.35)</b>	<b>275</b>	<b>0.97</b>
Mount Sinai Beth Israel	110	2	1.82	0.94	2.35	(0.26, 8.49)	96	3.68
NYP Brooklyn Methodist	181	0	0.00	0.34	0.00	(0.00, 7.36)	179	0.00
<b>Attubato M</b>	<b>1396</b>	<b>5</b>	<b>0.36</b>	<b>0.71</b>	<b>0.62</b>	<b>(0.20, 1.44)</b>	<b>1320</b>	<b>0.31</b>
Bellevue Hospital Ctr	2	0	0.00	1.16	0.00	(0.00, 100.0)	.	.
NYU Hospitals Center	1394	5	0.36	0.71	0.62	(0.20, 1.44)	1320	0.31
<b>Babaev A</b>	<b>788</b>	<b>3</b>	<b>0.38</b>	<b>0.51</b>	<b>0.91</b>	<b>(0.18, 2.66)</b>	<b>768</b>	<b>0.28</b>
Bellevue Hospital Ctr	3	1	33.33	12.95	3.14	(0.04, 17.47)	.	.
NYU Hospitals Center	785	2	0.25	0.46	0.67	(0.08, 2.43)	768	0.28
<b>Badero O</b>	<b>137</b>	<b>0</b>	<b>0.00</b>	<b>0.33</b>	<b>0.00</b>	<b>(0.00, 10.03)</b>	<b>137</b>	<b>0.00</b>
NYP Brooklyn Methodist	129	0	0.00	0.29	0.00	(0.00, 12.07)	129	0.00
Univ Hosp at Downstate	8	0	0.00	0.94	0.00	(0.00, 59.18)	8	0.00
<b>Bagga R</b>	<b>772</b>	<b>6</b>	<b>0.78</b>	<b>0.84</b>	<b>1.13</b>	<b>(0.41, 2.46)</b>	<b>675</b>	<b>1.16</b>
Huntington Hospital	583	5	0.86	0.93	1.12	(0.36, 2.62)	488	1.26
NYU Winthrop Hospital	177	1	0.56	0.58	1.19	(0.02, 6.62)	175	0.87
South Shore Univ. Hosp	12	0	0.00	0.30	0.00	(0.00, 100.0)	12	0.00
<b>Bangalore S</b>	<b>609</b>	<b>15</b>	<b>2.46</b>	<b>2.35</b>	<b>1.28</b>	<b>(0.71, 2.11)</b>	<b>507</b>	<b>0.92</b>
Bellevue Hospital Ctr	532	14	2.63	2.44	1.31	(0.72, 2.21)	443	1.02
NYU Hospitals Center	77	1	1.30	1.75	0.91	(0.01, 5.04)	64	0.00

Table 6, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Barman N</b>	<b>281</b>	<b>8</b>	<b>2.85</b>	<b>2.23</b>	<b>1.56</b>	<b>(0.67, 3.07)</b>	<b>207</b>	<b>1.14</b>
Brooklyn Hosp.Downtown	5	1	20.00	1.03	23.75	(0.31, 100.0)	.	.
Elmhurst Hospital Ctr	38	0	0.00	2.82	0.00	(0.00, 4.18)	4	0.00
Mount Sinai Hospital	238	7	2.94	2.16	1.66	(0.67, 3.43)	203	1.15
<b>Bench T</b>	<b>154</b>	<b>2</b>	<b>1.30</b>	<b>1.48</b>	<b>1.07</b>	<b>(0.12, 3.87)</b>	<b>108</b>	<b>1.45</b>
Long Island Comm. Hosp.	29	0	0.00	1.82	0.00	(0.00, 8.46)	10	0.00
Stony Brook Southampton	77	1	1.30	1.50	1.05	(0.01, 5.87)	60	0.00
Univ. Hosp-Stony Brook	48	1	2.08	1.23	2.07	(0.03, 11.51)	38	2.67
<b>Bishop G</b>	<b>306</b>	<b>6</b>	<b>1.96</b>	<b>1.88</b>	<b>1.27</b>	<b>(0.47, 2.77)</b>	<b>186</b>	<b>0.60</b>
Samaritan Hospital	26	0	0.00	1.36	0.00	(0.00, 12.66)	10	0.00
St. Peter's Hospital	280	6	2.14	1.92	1.36	(0.50, 2.96)	176	0.62
<b>Bliagos D</b>	<b>979</b>	<b>4</b>	<b>0.41</b>	<b>0.96</b>	<b>0.52</b>	<b>(0.14, 1.32)</b>	<b>870</b>	<b>0.13 **</b>
Montefiore - Moses	169	0	0.00	0.80	0.00	(0.00, 3.29)	164	0.00
Mount Sinai Hospital	21	0	0.00	1.10	0.00	(0.00, 19.39)	21	0.00
NYP Columbia Presby.	4	0	0.00	0.18	0.00	(0.00, 100.0)	4	0.00
White Plains Hospital	785	4	0.51	1.00	0.62	(0.17, 1.59)	681	0.17
<b>Blumenthal S</b>	<b>81</b>	<b>0</b>	<b>0.00</b>	<b>0.40</b>	<b>0.00</b>	<b>(0.00, 13.79)</b>	<b>81</b>	<b>0.00</b>
NYU Winthrop Hospital	1	0	0.00	0.40	0.00	(0.00, 100.0)	1	0.00
North Shore Univ Hosp	80	0	0.00	0.40	0.00	(0.00, 13.97)	80	0.00
<b>Bortnick A</b>	<b>345</b>	<b>5</b>	<b>1.45</b>	<b>1.74</b>	<b>1.02</b>	<b>(0.33, 2.37)</b>	<b>258</b>	<b>0.55</b>
Montefiore - Moses	37	1	2.70	1.62	2.03	(0.03, 11.29)	29	0.00
Montefiore - Weiler	305	4	1.31	1.76	0.91	(0.24, 2.33)	228	0.60
St. Barnabas Hospital	1	0	0.00	0.17	0.00	(0.00, 100.0)	1	0.00
White Plains Hospital	2	0	0.00	1.58	0.00	(0.00, 100.0)	.	.
<b>Boutis L</b>	<b>1050</b>	<b>10</b>	<b>0.95</b>	<b>1.12</b>	<b>1.03</b>	<b>(0.50, 1.90)</b>	<b>873</b>	<b>0.86</b>
Long Island Jewish MC	22	0	0.00	3.20	0.00	(0.00, 6.35)	3	0.00
North Shore Univ Hosp	1028	10	0.97	1.08	1.10	(0.53, 2.02)	870	0.86
<b>Caselnova R</b>	<b>523</b>	<b>4</b>	<b>0.76</b>	<b>1.12</b>	<b>0.83</b>	<b>(0.22, 2.12)</b>	<b>480</b>	<b>0.72</b>
Good Sam Univ Hosp	487	4	0.82	1.08	0.93	(0.25, 2.38)	466	0.74
NYU Winthrop Hospital	9	0	0.00	0.60	0.00	(0.00, 82.58)	8	0.00
South Shore Univ. Hosp	27	0	0.00	2.10	0.00	(0.00, 7.88)	6	0.00
<b>Castillo R</b>	<b>301</b>	<b>7</b>	<b>2.33</b>	<b>1.81</b>	<b>1.56</b>	<b>(0.63, 3.22)</b>	<b>192</b>	<b>1.15</b>
Brookdale Univ Hosp MC	274	6	2.19	1.40	1.91	(0.70, 4.16)	190	1.41
Univ Hosp at Downstate	27	1	3.70	6.03	0.75	(0.01, 4.17)	2	0.00
<b>Celaj S</b>	<b>708</b>	<b>5</b>	<b>0.71</b>	<b>1.06</b>	<b>0.81</b>	<b>(0.26, 1.90)</b>	<b>577</b>	<b>0.60</b>
BronxCare Health System	49	0	0.00	2.12	0.00	(0.00, 4.31)	6	0.00
Montefiore - Moses	314	1	0.32	0.94	0.42	(0.01, 2.31)	272	0.41
St. Barnabas Hospital	340	4	1.18	0.99	1.45	(0.39, 3.72)	298	0.80
White Plains Hospital	5	0	0.00	3.50	0.00	(0.00, 25.59)	1	0.00
<b>Chadow H</b>	<b>196</b>	<b>2</b>	<b>1.02</b>	<b>1.86</b>	<b>0.67</b>	<b>(0.08, 2.41)</b>	<b>129</b>	<b>0.00</b>
Brookdale Univ Hosp MC	180	1	0.56	1.63	0.41	(0.01, 2.31)	128	0.00
Univ Hosp at Downstate	16	1	6.25	4.43	1.72	(0.02, 9.57)	1	0.00
<b>Charney R</b>	<b>321</b>	<b>8</b>	<b>2.49</b>	<b>1.01</b>	<b>3.00 *</b>	<b>(1.29, 5.91)</b>	<b>291</b>	<b>2.21 *</b>
Montefiore - Moses	7	0	0.00	0.43	0.00	(0.00, 100.0)	6	0.00
Montefiore - Weiler	67	3	4.48	1.29	4.23	(0.85, 12.35)	67	2.52
Westchester Med Ctr	8	0	0.00	0.35	0.00	(0.00, 100.0)	6	0.00
White Plains Hospital	239	5	2.09	0.98	2.62	(0.84, 6.10)	212	2.03
<b>Chaudhry E</b>	<b>159</b>	<b>2</b>	<b>1.26</b>	<b>1.23</b>	<b>1.25</b>	<b>(0.14, 4.52)</b>	<b>116</b>	<b>1.14</b>
Mercy Hospital-Buffalo	128	2	1.56	1.30	1.47	(0.16, 5.29)	91	1.30
Niagara Falls Memorial	31	0	0.00	0.92	0.00	(0.00, 15.64)	25	0.00

Table 6, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Chavarria N</b>	<b>274</b>	<b>3</b>	<b>1.09</b>	<b>1.12</b>	<b>1.19</b>	<b>(0.24, 3.48)</b>	<b>189</b>	<b>1.38</b>
Glens Falls Hospital	3	0	0.00	0.84	0.00	(0.00, 100.0)	2	0.00
Montefiore - Moses	258	2	0.78	1.12	0.84	(0.09, 3.05)	184	1.41
St. Barnabas Hospital	13	1	7.69	1.25	7.52	(0.10, 41.84)	3	0.00
<b>Chen O</b>	<b>295</b>	<b>6</b>	<b>2.03</b>	<b>1.60</b>	<b>1.55</b>	<b>(0.57, 3.38)</b>	<b>183</b>	<b>1.40</b>
Maimonides Medical Ctr	14	0	0.00	0.19	0.00	(0.00, 100.0)	13	0.00
Stony Brook Southampton	1	0	0.00	0.96	0.00	(0.00, 100.0)	.	.
Univ. Hosp-Stony Brook	280	6	2.14	1.67	1.56	(0.57, 3.40)	170	1.42
<b>Chengot T</b>	<b>253</b>	<b>4</b>	<b>1.58</b>	<b>1.32</b>	<b>1.46</b>	<b>(0.39, 3.73)</b>	<b>213</b>	<b>1.42</b>
Good Sam Univ Hosp	198	3	1.52	1.34	1.38	(0.28, 4.02)	171	1.66
NYU Winthrop Hospital	48	1	2.08	1.38	1.84	(0.02, 10.26)	36	0.00
South Shore Univ. Hosp	3	0	0.00	0.63	0.00	(0.00, 100.0)	2	0.00
St. Francis Hospital	4	0	0.00	0.26	0.00	(0.00, 100.0)	4	0.00
<b>Chockalingam S</b>	<b>221</b>	<b>3</b>	<b>1.36</b>	<b>1.73</b>	<b>0.96</b>	<b>(0.19, 2.80)</b>	<b>147</b>	<b>1.32</b>
Olean General Hosp.	36	0	0.00	3.20	0.00	(0.00, 3.88)	19	0.00
Rochester General Hosp	132	1	0.76	1.19	0.77	(0.01, 4.30)	108	0.91
Unity Hospital	53	2	3.77	2.05	2.25	(0.25, 8.11)	20	5.35
<b>Conley J</b>	<b>763</b>	<b>8</b>	<b>1.05</b>	<b>0.66</b>	<b>1.94</b>	<b>(0.83, 3.82)</b>	<b>643</b>	<b>0.65</b>
Buffalo General Med Ctr	509	7	1.38	0.77	2.19	(0.88, 4.51)	407	0.94
Mercy Hospital-Buffalo	107	0	0.00	0.35	0.00	(0.00, 12.02)	106	0.00
Niagara Falls Memorial	147	1	0.68	0.52	1.60	(0.02, 8.90)	130	0.00
<b>Coppola J</b>	<b>229</b>	<b>4</b>	<b>1.75</b>	<b>1.11</b>	<b>1.93</b>	<b>(0.52, 4.93)</b>	<b>193</b>	<b>0.95</b>
Bellevue Hospital Ctr	135	4	2.96	1.48	2.45	(0.66, 6.27)	108	1.19
NYU Hospitals Center	94	0	0.00	0.57	0.00	(0.00, 8.31)	85	0.00
<b>Coven D</b>	<b>156</b>	<b>4</b>	<b>2.56</b>	<b>1.23</b>	<b>2.54</b>	<b>(0.68, 6.50)</b>	<b>75</b>	<b>2.45</b>
Jamaica Hosp Med Ctr	120	4	3.33	1.35	3.00	(0.81, 7.69)	48	3.12
Lenox Hill Hospital	35	0	0.00	0.84	0.00	(0.00, 15.26)	26	0.00
South Shore Univ. Hosp	1	0	0.00	0.28	0.00	(0.00, 100.0)	1	0.00
<b>Cuomo L</b>	<b>257</b>	<b>1</b>	<b>0.39</b>	<b>1.34</b>	<b>0.35</b>	<b>(0.00, 1.97)</b>	<b>152</b>	<b>0.71</b>
Garnet Health Med Ctr	254	1	0.39	1.32	0.36	(0.00, 2.02)	150	0.71
Montefiore St. Lukes	3	0	0.00	3.35	0.00	(0.00, 44.55)	2	0.00
<b>Dalal K</b>	<b>275</b>	<b>5</b>	<b>1.82</b>	<b>1.26</b>	<b>1.76</b>	<b>(0.57, 4.10)</b>	<b>189</b>	<b>0.98</b>
Buffalo General Med Ctr	203	5	2.46	1.37	2.20	(0.71, 5.13)	133	1.32
Niagara Falls Memorial	72	0	0.00	0.97	0.00	(0.00, 6.40)	56	0.00
<b>Dashkoff N</b>	<b>414</b>	<b>2</b>	<b>0.48</b>	<b>1.16</b>	<b>0.51</b>	<b>(0.06, 1.84)</b>	<b>295</b>	<b>0.00</b>
Buffalo General Med Ctr	270	2	0.74	1.04	0.87	(0.10, 3.14)	206	0.00
Niagara Falls Memorial	144	0	0.00	1.37	0.00	(0.00, 2.26)	89	0.00
<b>David M</b>	<b>401</b>	<b>1</b>	<b>0.25</b>	<b>0.26</b>	<b>1.19</b>	<b>(0.02, 6.61)</b>	<b>401</b>	<b>0.75</b>
NYP Queens	19	0	0.00	0.20	0.00	(0.00, 100.0)	19	0.00
NYU Hospitals Center	382	1	0.26	0.26	1.23	(0.02, 6.87)	382	0.78
<b>Delago A</b>	<b>477</b>	<b>15</b>	<b>3.14</b>	<b>1.65</b>	<b>2.32 *</b>	<b>(1.30, 3.82)</b>	<b>372</b>	<b>1.85 *</b>
Albany Med. Ctr	434	13	3.00	1.40	2.61 *	(1.39, 4.47)	368	1.87 *
Samaritan Hospital	22	1	4.55	3.02	1.83	(0.02, 10.20)	1	0.00
St. Peter's Hospital	21	1	4.76	5.52	1.05	(0.01, 5.85)	3	0.00
<b>Depta J</b>	<b>233</b>	<b>3</b>	<b>1.29</b>	<b>1.29</b>	<b>1.22</b>	<b>(0.25, 3.56)</b>	<b>165</b>	<b>0.48</b>
Rochester General Hosp	194	2	1.03	1.23	1.02	(0.11, 3.68)	146	0.55
Unity Hospital	39	1	2.56	1.56	2.00	(0.03, 11.12)	19	0.00
<b>Deutsch E</b>	<b>798</b>	<b>7</b>	<b>0.88</b>	<b>0.71</b>	<b>1.51</b>	<b>(0.60, 3.10)</b>	<b>730</b>	<b>1.17</b>
Good Sam Univ Hosp	634	4	0.63	0.60	1.28	(0.34, 3.27)	602	1.06
South Shore Univ. Hosp	64	1	1.56	1.31	1.45	(0.02, 8.09)	48	0.00
St. Catherine of Siena	96	2	2.08	1.06	2.41	(0.27, 8.69)	76	2.66
St. Francis Hospital	4	0	0.00	0.08	0.00	(0.00, 100.0)	4	0.00

Table 6, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Dhama B</b>	<b>81</b>	<b>0</b>	<b>0.00</b>	<b>0.44</b>	<b>0.00</b>	<b>(0.00, 12.63)</b>	<b>78</b>	<b>0.00</b>
Long Island Jewish MC	62	0	0.00	0.40	0.00	(0.00, 18.25)	61	0.00
NYU Winthrop Hospital	3	0	0.00	0.50	0.00	(0.00, 100.0)	3	0.00
North Shore Univ Hosp	16	0	0.00	0.59	0.00	(0.00, 47.45)	14	0.00
<b>Doling M</b>	<b>229</b>	<b>2</b>	<b>0.87</b>	<b>0.98</b>	<b>1.09</b>	<b>(0.12, 3.93)</b>	<b>178</b>	<b>1.09</b>
Arnot Ogden Med Ctr	8	0	0.00	0.69	0.00	(0.00, 81.01)	8	0.00
Strong Memorial Hosp	221	2	0.90	0.99	1.12	(0.13, 4.03)	170	1.13
<b>Dominguez Alvaro</b>	<b>280</b>	<b>0</b>	<b>0.00</b>	<b>0.41</b>	<b>0.00</b>	<b>(0.00, 3.86)</b>	<b>279</b>	<b>0.00</b>
Lenox Hill Hospital	254	0	0.00	0.37	0.00	(0.00, 4.75)	253	0.00
Mount Sinai Hospital	6	0	0.00	0.56	0.00	(0.00, 100.0)	6	0.00
NYP Brooklyn Methodist	5	0	0.00	1.16	0.00	(0.00, 77.15)	5	0.00
NYU Langone Hosp-Brooklyn	15	0	0.00	0.83	0.00	(0.00, 35.90)	15	0.00
<b>Duvvuri S</b>	<b>295</b>	<b>2</b>	<b>0.68</b>	<b>0.62</b>	<b>1.33</b>	<b>(0.15, 4.80)</b>	<b>265</b>	<b>1.20</b>
Mount Sinai Hospital	19	0	0.00	0.20	0.00	(0.00, 100.0)	19	0.00
Richmond Univ Med Cntr	153	1	0.65	0.75	1.06	(0.01, 5.89)	128	1.19
Staten Island Univ Hosp	123	1	0.81	0.53	1.88	(0.02, 10.49)	118	1.29
<b>Esper D</b>	<b>518</b>	<b>9</b>	<b>1.74</b>	<b>1.25</b>	<b>1.69</b>	<b>(0.77, 3.21)</b>	<b>426</b>	<b>0.71</b>
Albany Med. Ctr	226	6	2.65	1.39	2.33	(0.85, 5.08)	191	1.05
Samaritan Hospital	21	1	4.76	2.11	2.76	(0.04, 15.33)	4	0.00
St. Peter's Hospital	271	2	0.74	1.08	0.83	(0.09, 3.01)	231	0.44
<b>Farhi E</b>	<b>677</b>	<b>6</b>	<b>0.89</b>	<b>1.36</b>	<b>0.80</b>	<b>(0.29, 1.74)</b>	<b>460</b>	<b>0.47</b>
Buffalo General Med Ctr	672	6	0.89	1.35	0.81	(0.29, 1.76)	460	0.47
Niagara Falls Memorial	1	0	0.00	2.51	0.00	(0.00, 100.0)	.	.
Olean General Hosp.	4	0	0.00	2.12	0.00	(0.00, 52.63)	.	.
<b>Farid A</b>	<b>189</b>	<b>0</b>	<b>0.00</b>	<b>0.26</b>	<b>0.00</b>	<b>(0.00, 8.98)</b>	<b>187</b>	<b>0.00</b>
NYU Hospitals Center	158	0	0.00	0.27	0.00	(0.00, 10.41)	158	0.00
NYU Langone Hosp-Brooklyn	2	0	0.00	0.60	0.00	(0.00, 100.0)	.	.
Richmond Univ Med Cntr	3	0	0.00	0.21	0.00	(0.00, 100.0)	3	0.00
Staten Island Univ Hosp	26	0	0.00	0.19	0.00	(0.00, 89.25)	26	0.00
<b>Fernaine G</b>	<b>308</b>	<b>3</b>	<b>0.97</b>	<b>1.14</b>	<b>1.04</b>	<b>(0.21, 3.04)</b>	<b>260</b>	<b>1.19</b>
NYU Hospitals Center	47	0	0.00	0.40	0.00	(0.00, 23.69)	47	0.00
NYU Langone Hosp-Brooklyn	261	3	1.15	1.27	1.10	(0.22, 3.22)	213	1.30
<b>Fox J</b>	<b>1199</b>	<b>10</b>	<b>0.83</b>	<b>1.03</b>	<b>0.98</b>	<b>(0.47, 1.81)</b>	<b>1092</b>	<b>0.61</b>
Mount Sinai Beth Israel	1198	10	0.83	1.03	0.99	(0.47, 1.81)	1091	0.61
Mount Sinai Morningside	1	0	0.00	1.49	0.00	(0.00, 100.0)	1	0.00
<b>Franco J</b>	<b>86</b>	<b>1</b>	<b>1.16</b>	<b>0.37</b>	<b>3.83</b>	<b>(0.05, 21.31)</b>	<b>79</b>	<b>0.00</b>
Long Island Comm. Hosp.	71	1	1.41	0.36	4.81	(0.06, 26.77)	66	0.00
NYU Winthrop Hospital	3	0	0.00	0.79	0.00	(0.00, 100.0)	3	0.00
St. Catherine of Siena	6	0	0.00	0.27	0.00	(0.00, 100.0)	6	0.00
Stony Brook Southampton	2	0	0.00	0.95	0.00	(0.00, 100.0)	.	.
Univ. Hosp-Stony Brook	4	0	0.00	0.14	0.00	(0.00, 100.0)	4	0.00
<b>Friedman G</b>	<b>427</b>	<b>3</b>	<b>0.70</b>	<b>0.92</b>	<b>0.93</b>	<b>(0.19, 2.73)</b>	<b>405</b>	<b>0.78</b>
North Shore Univ Hosp	82	1	1.22	0.37	4.02	(0.05, 22.35)	82	2.71
St. Francis Hospital	345	2	0.58	1.05	0.67	(0.08, 2.43)	323	0.58
<b>Fuschetto D</b>	<b>165</b>	<b>1</b>	<b>0.61</b>	<b>1.26</b>	<b>0.59</b>	<b>(0.01, 3.28)</b>	<b>133</b>	<b>0.00</b>
Long Island Jewish MC	98	0	0.00	0.51	0.00	(0.00, 8.91)	95	0.00
Maimonides Medical Ctr	1	0	0.00	0.97	0.00	(0.00, 100.0)	1	0.00
NYU Langone Hosp-Brooklyn	37	1	2.70	3.75	0.88	(0.01, 4.88)	9	0.00
North Shore Univ Hosp	29	0	0.00	0.59	0.00	(0.00, 26.31)	28	0.00
<b>Fuschetto O</b>	<b>130</b>	<b>1</b>	<b>0.77</b>	<b>1.87</b>	<b>0.50</b>	<b>(0.01, 2.80)</b>	<b>94</b>	<b>0.00</b>
Long Island Jewish MC	41	0	0.00	0.62	0.00	(0.00, 17.70)	40	0.00
Maimonides Medical Ctr	3	0	0.00	0.16	0.00	(0.00, 100.0)	3	0.00
NYU Langone Hosp-Brooklyn	68	1	1.47	2.91	0.62	(0.01, 3.43)	34	0.00
North Shore Univ Hosp	18	0	0.00	1.05	0.00	(0.00, 23.59)	17	0.00



Table 6, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Gacioch G</b>	<b>176</b>	<b>3</b>	<b>1.70</b>	<b>1.12</b>	<b>1.85</b>	<b>(0.37, 5.40)</b>	<b>120</b>	<b>0.00</b>
Rochester General Hosp	145	2	1.38	1.10	1.54	(0.17, 5.54)	104	0.00
Unity Hospital	31	1	3.23	1.26	3.12	(0.04, 17.38)	16	0.00
<b>Gala B</b>	<b>158</b>	<b>3</b>	<b>1.90</b>	<b>1.40</b>	<b>1.65</b>	<b>(0.33, 4.82)</b>	<b>125</b>	<b>1.84</b>
Richmond Univ Med Cntr	135	2	1.48	1.55	1.17	(0.13, 4.22)	103	1.07
Staten Island Univ Hosp	23	1	4.35	0.57	9.36	(0.12, 52.07)	22	6.71
<b>Galler B</b>	<b>71</b>	<b>0</b>	<b>0.00</b>	<b>0.48</b>	<b>0.00</b>	<b>(0.00, 13.03)</b>	<b>69</b>	<b>0.00</b>
NYU Winthrop Hospital	70	0	0.00	0.47	0.00	(0.00, 13.52)	68	0.00
South Shore Univ. Hosp	1	0	0.00	1.24	0.00	(0.00, 100.0)	1	0.00
<b>Gambino A</b>	<b>637</b>	<b>6</b>	<b>0.94</b>	<b>1.16</b>	<b>0.99</b>	<b>(0.36, 2.16)</b>	<b>553</b>	<b>0.21</b>
Long Island Comm. Hosp.	17	0	0.00	0.40	0.00	(0.00, 65.54)	16	0.00
NYU Winthrop Hospital	620	6	0.97	1.18	1.00	(0.36, 2.18)	537	0.21
<b>Gandotra P</b>	<b>645</b>	<b>10</b>	<b>1.55</b>	<b>1.09</b>	<b>1.74</b>	<b>(0.83, 3.20)</b>	<b>576</b>	<b>1.33</b>
Good Sam Univ Hosp	43	1	2.33	1.29	2.19	(0.03, 12.19)	42	1.50
South Shore Univ. Hosp	602	9	1.50	1.07	1.70	(0.78, 3.23)	534	1.30
<b>Garyali S</b>	<b>63</b>	<b>1</b>	<b>1.59</b>	<b>1.13</b>	<b>1.72</b>	<b>(0.02, 9.56)</b>	<b>47</b>	<b>0.00</b>
Brooklyn Hosp.Downtown	59	1	1.69	1.19	1.74	(0.02, 9.66)	43	0.00
Maimonides Medical Ctr	4	0	0.00	0.19	0.00	(0.00, 100.0)	4	0.00
<b>Gelormini J</b>	<b>568</b>	<b>5</b>	<b>0.88</b>	<b>1.29</b>	<b>0.83</b>	<b>(0.27, 1.94)</b>	<b>439</b>	<b>0.81</b>
Mercy Hospital-Buffalo	561	5	0.89	1.29	0.84	(0.27, 1.97)	437	0.82
Niagara Falls Memorial	7	0	0.00	1.26	0.00	(0.00, 50.56)	2	0.00
<b>George Anil</b>	<b>477</b>	<b>12</b>	<b>2.52</b>	<b>1.64</b>	<b>1.87</b>	<b>(0.96, 3.26)</b>	<b>374</b>	<b>1.67</b>
Crouse Hospital	476	12	2.52	1.64	1.87	(0.96, 3.27)	373	1.68
St. Josephs Hospital	1	0	0.00	0.71	0.00	(0.00, 100.0)	1	0.00
<b>Gill K</b>	<b>241</b>	<b>11</b>	<b>4.56</b>	<b>1.41</b>	<b>3.95 *</b>	<b>(1.97, 7.07)</b>	<b>181</b>	<b>2.58 *</b>
Arnot Ogden Med Ctr	175	9	5.14	1.52	4.12 *	(1.88, 7.82)	122	2.47
Long Island Comm. Hosp.	48	0	0.00	0.77	0.00	(0.00, 12.04)	41	0.00
Univ. Hosp-Stony Brook	18	2	11.11	2.00	6.76	(0.76, 24.42)	18	4.80
<b>Gotsis W</b>	<b>1025</b>	<b>7</b>	<b>0.68</b>	<b>1.06</b>	<b>0.79</b>	<b>(0.32, 1.62)</b>	<b>857</b>	<b>0.71</b>
Garnet Health Med Ctr	813	6	0.74	0.99	0.90	(0.33, 1.97)	660	0.91
Good Sam - Suffern	1	0	0.00	1.00	0.00	(0.00, 100.0)	1	0.00
Montefiore - Moses	205	0	0.00	1.27	0.00	(0.00, 1.72)	191	0.00
Montefiore - Weiler	2	1	50.00	1.12	54.30	(0.71, 100.0)	2	36.86
Montefiore St. Lukes	1	0	0.00	11.27	0.00	(0.00, 39.68)	.	.
Mount Sinai Morningside	3	0	0.00	0.31	0.00	(0.00, 100.0)	3	0.00
<b>Gowda R</b>	<b>506</b>	<b>8</b>	<b>1.58</b>	<b>1.30</b>	<b>1.48</b>	<b>(0.64, 2.92)</b>	<b>401</b>	<b>1.17</b>
Mount Sinai Beth Israel	461	5	1.08	1.22	1.08	(0.35, 2.53)	375	1.09
Mount Sinai Morningside	45	3	6.67	2.12	3.83	(0.77, 11.20)	26	1.88
<b>Green P</b>	<b>343</b>	<b>7</b>	<b>2.04</b>	<b>1.14</b>	<b>2.19</b>	<b>(0.88, 4.51)</b>	<b>298</b>	<b>1.49</b>
Garnet Health Med Ctr	2	0	0.00	2.26	0.00	(0.00, 98.83)	2	0.00
NYP Columbia Presby.	310	7	2.26	1.04	2.64	(1.06, 5.44)	277	1.56
NYP Westchester	31	0	0.00	2.00	0.00	(0.00, 7.21)	19	0.00
<b>Greenberg M</b>	<b>666</b>	<b>7</b>	<b>1.05</b>	<b>0.85</b>	<b>1.50</b>	<b>(0.60, 3.10)</b>	<b>564</b>	<b>0.94</b>
Montefiore - Moses	268	0	0.00	0.59	0.00	(0.00, 2.85)	256	0.00
Montefiore - Weiler	138	2	1.45	0.68	2.58	(0.29, 9.33)	129	1.99
St. Barnabas Hospital	2	0	0.00	0.95	0.00	(0.00, 100.0)	1	0.00
White Plains Hospital	258	5	1.94	1.22	1.94	(0.62, 4.52)	178	1.14
<b>Grella R</b>	<b>244</b>	<b>8</b>	<b>3.28</b>	<b>1.53</b>	<b>2.62</b>	<b>(1.13, 5.16)</b>	<b>165</b>	<b>1.69</b>
Arnot Ogden Med Ctr	45	1	2.22	1.26	2.15	(0.03, 11.95)	36	0.00
Saratoga Hospital	199	7	3.52	1.59	2.70	(1.08, 5.57)	129	2.15

Table 6, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Gruberg L</b>	<b>442</b>	<b>7</b>	<b>1.58</b>	<b>1.37</b>	<b>1.40</b>	<b>(0.56, 2.89)</b>	<b>341</b>	<b>0.70</b>
Peconic Bay Med Ctr	22	0	0.00	1.48	0.00	(0.00, 13.77)	7	0.00
South Shore Univ. Hosp	230	2	0.87	0.97	1.10	(0.12, 3.97)	200	0.00
Univ. Hosp-Stony Brook	190	5	2.63	1.86	1.73	(0.56, 4.03)	134	1.31
<b>Grunwald A</b>	<b>221</b>	<b>3</b>	<b>1.36</b>	<b>1.02</b>	<b>1.62</b>	<b>(0.33, 4.75)</b>	<b>171</b>	<b>1.66</b>
NYP Queens	43	1	2.33	1.28	2.21	(0.03, 12.28)	28	3.18
NYU Hospitals Center	2	0	0.00	0.31	0.00	(0.00, 100.0)	2	0.00
NYU Winthrop Hospital	11	1	9.09	1.88	5.90	(0.08, 32.81)	11	3.99
St. Francis Hospital	165	1	0.61	0.90	0.82	(0.01, 4.56)	130	0.00
<b>Gujja K</b>	<b>198</b>	<b>1</b>	<b>0.51</b>	<b>0.66</b>	<b>0.93</b>	<b>(0.01, 5.15)</b>	<b>197</b>	<b>0.64</b>
Lenox Hill Hospital	4	0	0.00	4.41	0.00	(0.00, 25.34)	4	0.00
Mount Sinai Hospital	194	1	0.52	0.59	1.07	(0.01, 5.95)	193	0.71
<b>Gupta R</b>	<b>99</b>	<b>3</b>	<b>3.03</b>	<b>0.77</b>	<b>4.78</b>	<b>(0.96, 13.96)</b>	<b>96</b>	<b>3.13</b>
Jamaica Hosp Med Ctr	11	1	9.09	1.28	8.65	(0.11, 48.13)	11	4.90
Long Island Jewish MC	33	1	3.03	0.51	7.20	(0.09, 40.05)	33	4.34
NYP Queens	55	1	1.82	0.83	2.68	(0.03, 14.90)	52	1.91
<b>Hall C</b>	<b>652</b>	<b>20</b>	<b>3.07</b>	<b>1.60</b>	<b>2.34 *</b>	<b>(1.43, 3.61)</b>	<b>477</b>	<b>1.02</b>
Rochester General Hosp	565	15	2.65	1.48	2.19 *	(1.22, 3.61)	419	0.99
Unity Hospital	87	5	5.75	2.39	2.94	(0.95, 6.85)	58	1.24
<b>Happes M</b>	<b>524</b>	<b>6</b>	<b>1.15</b>	<b>1.15</b>	<b>1.21</b>	<b>(0.44, 2.64)</b>	<b>449</b>	<b>0.42</b>
Good Sam Univ Hosp	264	3	1.14	1.30	1.07	(0.21, 3.12)	241	0.38
North Shore Univ Hosp	3	0	0.00	0.12	0.00	(0.00, 100.0)	3	0.00
South Shore Univ. Hosp	79	0	0.00	1.49	0.00	(0.00, 3.80)	58	0.00
St. Catherine of Siena	178	3	1.69	0.80	2.57	(0.52, 7.52)	147	0.82
<b>Haq N</b>	<b>534</b>	<b>5</b>	<b>0.94</b>	<b>1.30</b>	<b>0.88</b>	<b>(0.28, 2.04)</b>	<b>405</b>	<b>0.00</b>
Mercy Hospital-Buffalo	531	5	0.94	1.31	0.88	(0.28, 2.05)	405	0.00
Niagara Falls Memorial	3	0	0.00	0.95	0.00	(0.00, 100.0)	.	.
<b>Hegde S</b>	<b>189</b>	<b>4</b>	<b>2.12</b>	<b>2.05</b>	<b>1.26</b>	<b>(0.34, 3.23)</b>	<b>134</b>	<b>0.49</b>
Bellevue Hospital Ctr	43	1	2.33	0.98	2.88	(0.04, 16.02)	40	1.94
Univ Hosp at Downstate	146	3	2.05	2.36	1.06	(0.21, 3.10)	94	0.00
<b>Heller L</b>	<b>37</b>	<b>1</b>	<b>2.70</b>	<b>1.45</b>	<b>2.27</b>	<b>(0.03, 12.65)</b>	<b>21</b>	<b>0.00</b>
Peconic Bay Med Ctr	8	1	12.50	0.64	23.73	(0.31, 100.0)	3	0.00
Westchester Med Ctr	29	0	0.00	1.67	0.00	(0.00, 9.22)	18	0.00
<b>Hjemdahl-Monsen C</b>	<b>401</b>	<b>2</b>	<b>0.50</b>	<b>1.05</b>	<b>0.58</b>	<b>(0.07, 2.10)</b>	<b>353</b>	<b>0.00</b>
NYP Columbia Presby.	27	0	0.00	0.84	0.00	(0.00, 19.75)	26	0.00
NYP Westchester	355	2	0.56	1.08	0.63	(0.07, 2.29)	310	0.00
White Plains Hospital	19	0	0.00	0.70	0.00	(0.00, 33.78)	17	0.00
<b>Hormozi S</b>	<b>1043</b>	<b>8</b>	<b>0.77</b>	<b>0.66</b>	<b>1.41</b>	<b>(0.61, 2.78)</b>	<b>958</b>	<b>1.43</b>
Good Sam Univ Hosp	454	4	0.88	0.72	1.49	(0.40, 3.80)	419	1.52
Mount Sinai South Nassau	1	0	0.00	18.97	0.00	(0.00, 23.58)	.	.
North Shore Univ Hosp	1	0	0.00	4.96	0.00	(0.00, 90.22)	1	0.00
South Shore Univ. Hosp	474	3	0.63	0.45	1.70	(0.34, 4.98)	444	1.67
St. Catherine of Siena	112	1	0.89	1.10	0.99	(0.01, 5.53)	94	0.90
Stony Brook Southampton	1	0	0.00	1.30	0.00	(0.00, 100.0)	.	.
<b>Hoyek W</b>	<b>299</b>	<b>2</b>	<b>0.67</b>	<b>1.16</b>	<b>0.70</b>	<b>(0.08, 2.55)</b>	<b>231</b>	<b>1.52</b>
NYP Brooklyn Methodist	42	1	2.38	0.21	14.14	(0.18, 78.69)	42	8.63
NYU Langone Hosp-Brooklyn	86	0	0.00	2.35	0.00	(0.00, 2.21)	52	0.00
Staten Island Univ Hosp	171	1	0.58	0.79	0.90	(0.01, 5.03)	137	1.89
<b>Htun W</b>	<b>285</b>	<b>1</b>	<b>0.35</b>	<b>0.37</b>	<b>1.16</b>	<b>(0.02, 6.43)</b>	<b>283</b>	<b>0.76</b>
Lenox Hill Hospital	15	0	0.00	0.37	0.00	(0.00, 81.06)	15	0.00
Mount Sinai Beth Israel	270	1	0.37	0.37	1.22	(0.02, 6.79)	268	0.81

Table 6, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Husain S I</b>	<b>92</b>	<b>2</b>	<b>2.17</b>	<b>1.10</b>	<b>2.41</b>	<b>(0.27, 8.71)</b>	<b>90</b>	<b>1.62</b>
Long Island Jewish MC	87	2	2.30	1.00	2.79	(0.31, 10.09)	85	1.93
North Shore Univ Hosp	5	0	0.00	2.77	0.00	(0.00, 32.31)	5	0.00
<b>Husain S S</b>	<b>17</b>	<b>0</b>	<b>0.00</b>	<b>0.88</b>	<b>0.00</b>	<b>(0.00, 29.84)</b>	<b>14</b>	<b>0.00</b>
Arnot Ogden Med Ctr	4	0	0.00	2.61	0.00	(0.00, 42.84)	1	0.00
Mount Sinai Morningside	13	0	0.00	0.35	0.00	(0.00, 98.39)	13	0.00
<b>Iqbal S</b>	<b>232</b>	<b>4</b>	<b>1.72</b>	<b>1.70</b>	<b>1.24</b>	<b>(0.33, 3.17)</b>	<b>173</b>	<b>1.43</b>
Bellevue Hospital Ctr	216	4	1.85	1.67	1.36	(0.36, 3.47)	165	1.59
NYU Hospitals Center	16	0	0.00	2.15	0.00	(0.00, 13.01)	8	0.00
<b>Irobunda C</b>	<b>126</b>	<b>3</b>	<b>2.38</b>	<b>0.95</b>	<b>3.06</b>	<b>(0.62, 8.95)</b>	<b>98</b>	<b>0.00</b>
NYP Columbia Presby.	114	2	1.75	0.76	2.80	(0.31, 10.12)	98	0.00
NYP Westchester	12	1	8.33	2.70	3.76	(0.05, 20.91)	.	.
<b>Iyer S</b>	<b>13</b>	<b>0</b>	<b>0.00</b>	<b>0.36</b>	<b>0.00</b>	<b>(0.00, 94.82)</b>	<b>13</b>	<b>0.00</b>
Lenox Hill Hospital	12	0	0.00	0.38	0.00	(0.00, 97.11)	12	0.00
Olean General Hosp.	1	0	0.00	0.11	0.00	(0.00, 100.0)	1	0.00
<b>Iyer V</b>	<b>679</b>	<b>11</b>	<b>1.62</b>	<b>1.72</b>	<b>1.15</b>	<b>(0.57, 2.05)</b>	<b>507</b>	<b>0.61</b>
Buffalo General Med Ctr	650	11	1.69	1.70	1.21	(0.60, 2.17)	493	0.63
Olean General Hosp.	29	0	0.00	2.15	0.00	(0.00, 7.16)	14	0.00
<b>Jain S</b>	<b>387</b>	<b>3</b>	<b>0.78</b>	<b>1.06</b>	<b>0.89</b>	<b>(0.18, 2.60)</b>	<b>293</b>	<b>1.26</b>
Jamaica Hosp Med Ctr	194	3	1.55	1.56	1.21	(0.24, 3.53)	102	2.90
Lenox Hill Hospital	192	0	0.00	0.56	0.00	(0.00, 4.17)	190	0.00
Long Island Jewish MC	1	0	0.00	0.26	0.00	(0.00, 100.0)	1	0.00
<b>Jasty B</b>	<b>101</b>	<b>0</b>	<b>0.00</b>	<b>0.67</b>	<b>0.00</b>	<b>(0.00, 6.65)</b>	<b>100</b>	<b>0.00</b>
Brooklyn Hosp.Downtown	1	0	0.00	0.19	0.00	(0.00, 100.0)	1	0.00
NYP Brooklyn Methodist	100	0	0.00	0.67	0.00	(0.00, 6.67)	99	0.00
<b>Jauhar R</b>	<b>1684</b>	<b>21</b>	<b>1.25</b>	<b>1.01</b>	<b>1.51</b>	<b>(0.93, 2.30)</b>	<b>1416</b>	<b>0.94</b>
Long Island Jewish MC	21	0	0.00	2.18	0.00	(0.00, 9.79)	3	0.00
North Shore Univ Hosp	1663	21	1.26	0.99	1.55	(0.96, 2.37)	1413	0.95
<b>Jayasundera T</b>	<b>201</b>	<b>1</b>	<b>0.50</b>	<b>0.23</b>	<b>2.60</b>	<b>(0.03, 14.47)</b>	<b>201</b>	<b>1.65</b>
Mount Sinai Hospital	1	0	0.00	0.08	0.00	(0.00, 100.0)	1	0.00
NYU Hospitals Center	200	1	0.50	0.23	2.61	(0.03, 14.49)	200	1.65
<b>Jeremias A</b>	<b>607</b>	<b>2</b>	<b>0.33</b>	<b>1.71</b>	<b>0.24 **</b>	<b>(0.03, 0.85)</b>	<b>522</b>	<b>0.27</b>
St. Francis Hospital	577	2	0.35	1.68	0.25 **	(0.03, 0.91)	510	0.27
Univ. Hosp-Stony Brook	30	0	0.00	2.28	0.00	(0.00, 6.52)	12	0.00
<b>Johnson M</b>	<b>447</b>	<b>3</b>	<b>0.67</b>	<b>0.99</b>	<b>0.83</b>	<b>(0.17, 2.41)</b>	<b>404</b>	<b>0.00</b>
Montefiore - Moses	431	2	0.46	0.99	0.57	(0.06, 2.07)	398	0.00
Montefiore - Weiler	1	0	0.00	0.14	0.00	(0.00, 100.0)	1	0.00
St. Barnabas Hospital	9	0	0.00	1.28	0.00	(0.00, 38.83)	3	0.00
White Plains Hospital	6	1	16.67	1.08	18.87	(0.25, 100.0)	2	0.00
<b>Jones M</b>	<b>79</b>	<b>1</b>	<b>1.27</b>	<b>1.10</b>	<b>1.40</b>	<b>(0.02, 7.82)</b>	<b>73</b>	<b>1.10</b>
Brooklyn Hosp.Downtown	5	0	0.00	1.63	0.00	(0.00, 54.92)	.	.
Maimonides Medical Ctr	71	1	1.41	1.08	1.59	(0.02, 8.84)	70	1.13
NYP Brooklyn Methodist	3	0	0.00	0.63	0.00	(0.00, 100.0)	3	0.00
<b>Joseph S</b>	<b>142</b>	<b>2</b>	<b>1.41</b>	<b>0.93</b>	<b>1.86</b>	<b>(0.21, 6.70)</b>	<b>133</b>	<b>0.69</b>
Long Island Comm. Hosp.	63	1	1.59	0.75	2.59	(0.03, 14.42)	54	0.00
NYU Winthrop Hospital	8	0	0.00	0.10	0.00	(0.00, 100.0)	8	0.00
North Shore Univ Hosp	7	0	0.00	0.21	0.00	(0.00, 100.0)	7	0.00
Univ. Hosp-Stony Brook	64	1	1.56	1.28	1.49	(0.02, 8.27)	64	0.90
<b>Kakkar A</b>	<b>362</b>	<b>4</b>	<b>1.10</b>	<b>1.21</b>	<b>1.11</b>	<b>(0.30, 2.85)</b>	<b>317</b>	<b>0.94</b>
Montefiore - Moses	146	0	0.00	1.10	0.00	(0.00, 2.79)	133	0.00
Montefiore - Weiler	216	4	1.85	1.29	1.76	(0.47, 4.50)	184	1.38

Table 6, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Kalapatapu K</b>	<b>816</b>	<b>6</b>	<b>0.74</b>	<b>1.00</b>	<b>0.89</b>	<b>(0.33, 1.95)</b>	<b>756</b>	<b>0.52</b>
Garnet Health Med Ctr	361	2	0.55	1.18	0.57	(0.06, 2.07)	352	0.00
NYP Columbia Presby.	13	0	0.00	0.35	0.00	(0.00, 99.41)	13	0.00
NYP Westchester	396	4	1.01	0.92	1.34	(0.36, 3.42)	348	1.43
White Plains Hospital	46	0	0.00	0.51	0.00	(0.00, 18.97)	43	0.00
<b>Kandala J</b>	<b>344</b>	<b>7</b>	<b>2.03</b>	<b>1.91</b>	<b>1.30</b>	<b>(0.52, 2.68)</b>	<b>251</b>	<b>1.19</b>
Arnot Ogden Med Ctr	112	3	2.68	2.00	1.64	(0.33, 4.78)	71	4.70
Bassett Medical Center	232	4	1.72	1.87	1.13	(0.30, 2.88)	180	0.68
<b>Kandov R</b>	<b>776</b>	<b>4</b>	<b>0.52</b>	<b>1.01</b>	<b>0.62</b>	<b>(0.17, 1.60)</b>	<b>653</b>	<b>0.59</b>
NYU Langone Hosp-Brooklyn	37	0	0.00	4.27	0.00	(0.00, 2.83)	4	0.00
Staten Island Univ Hosp	739	4	0.54	0.84	0.78	(0.21, 2.00)	649	0.59
<b>Kanei Y</b>	<b>368</b>	<b>6</b>	<b>1.63</b>	<b>1.86</b>	<b>1.07</b>	<b>(0.39, 2.33)</b>	<b>265</b>	<b>0.00</b>
Mount Sinai Beth Israel	367	6	1.63	1.85	1.08	(0.39, 2.34)	264	0.00
Mount Sinai Morningside	1	0	0.00	4.18	0.00	(0.00, 100.0)	1	0.00
<b>Kaplan B</b>	<b>2069</b>	<b>21</b>	<b>1.01</b>	<b>1.09</b>	<b>1.14</b>	<b>(0.70, 1.74)</b>	<b>1835</b>	<b>0.64</b>
Long Island Jewish MC	22	0	0.00	2.29	0.00	(0.00, 8.89)	5	0.00
North Shore Univ Hosp	2047	21	1.03	1.08	1.16	(0.72, 1.78)	1830	0.65
<b>Kapur V</b>	<b>187</b>	<b>2</b>	<b>1.07</b>	<b>2.21</b>	<b>0.59</b>	<b>(0.07, 2.13)</b>	<b>155</b>	<b>0.37</b>
Mount Sinai Hospital	127	2	1.57	2.48	0.77	(0.09, 2.79)	100	0.57
Mount Sinai Morningside	60	0	0.00	1.64	0.00	(0.00, 4.56)	55	0.00
<b>Katz S</b>	<b>187</b>	<b>3</b>	<b>1.60</b>	<b>1.05</b>	<b>1.86</b>	<b>(0.37, 5.45)</b>	<b>143</b>	<b>1.04</b>
Long Island Jewish MC	5	0	0.00	3.00	0.00	(0.00, 29.80)	.	.
North Shore Univ Hosp	35	0	0.00	1.85	0.00	(0.00, 6.90)	28	0.00
Peconic Bay Med Ctr	145	3	2.07	0.80	3.15	(0.63, 9.22)	113	1.56
South Shore Univ. Hosp	2	0	0.00	0.22	0.00	(0.00, 100.0)	2	0.00
<b>Kesanakurthy S</b>	<b>693</b>	<b>2</b>	<b>0.29</b>	<b>0.77</b>	<b>0.46</b>	<b>(0.05, 1.66)</b>	<b>637</b>	<b>0.23</b>
Brooklyn Hosp.Downtown	310	1	0.32	0.96	0.41	(0.01, 2.28)	259	0.00
Mount Sinai Hospital	378	1	0.26	0.62	0.52	(0.01, 2.91)	373	0.47
NYP NY Weill Cornell	5	0	0.00	0.15	0.00	(0.00, 100.0)	5	0.00
<b>Khan Abdullah</b>	<b>132</b>	<b>2</b>	<b>1.52</b>	<b>1.17</b>	<b>1.58</b>	<b>(0.18, 5.71)</b>	<b>79</b>	<b>1.29</b>
Brookdale Univ Hosp MC	127	2	1.57	1.12	1.72	(0.19, 6.21)	77	1.33
Richmond Univ Med Cntr	5	0	0.00	2.46	0.00	(0.00, 36.41)	2	0.00
<b>Khan S</b>	<b>222</b>	<b>5</b>	<b>2.25</b>	<b>1.34</b>	<b>2.05</b>	<b>(0.66, 4.78)</b>	<b>193</b>	<b>1.51</b>
St. Catherine of Siena	102	3	2.94	1.51	2.37	(0.48, 6.93)	76	3.09
Univ. Hosp-Stony Brook	120	2	1.67	1.19	1.70	(0.19, 6.14)	117	0.59
<b>Khan W</b>	<b>789</b>	<b>8</b>	<b>1.01</b>	<b>1.09</b>	<b>1.14</b>	<b>(0.49, 2.24)</b>	<b>602</b>	<b>1.40</b>
Long Island Comm. Hosp.	763	8	1.05	1.09	1.17	(0.50, 2.30)	576	1.51
NYU Winthrop Hospital	26	0	0.00	0.90	0.00	(0.00, 19.16)	26	0.00
<b>Khanna N</b>	<b>91</b>	<b>3</b>	<b>3.30</b>	<b>1.57</b>	<b>2.56</b>	<b>(0.51, 7.47)</b>	<b>61</b>	<b>0.00</b>
Garnet Health Med Ctr	8	0	0.00	0.83	0.00	(0.00, 67.38)	7	0.00
Montefiore St. Lukes	83	3	3.61	1.64	2.68	(0.54, 7.83)	54	0.00
<b>Khullar P</b>	<b>265</b>	<b>1</b>	<b>0.38</b>	<b>1.05</b>	<b>0.44</b>	<b>(0.01, 2.44)</b>	<b>249</b>	<b>0.00</b>
Mount Sinai Beth Israel	7	0	0.00	0.21	0.00	(0.00, 100.0)	7	0.00
Mount Sinai Morningside	258	1	0.39	1.07	0.44	(0.01, 2.46)	242	0.00
<b>Khurana D</b>	<b>114</b>	<b>0</b>	<b>0.00</b>	<b>1.88</b>	<b>0.00</b>	<b>(0.00, 2.08)</b>	<b>87</b>	<b>0.00</b>
Arnot Ogden Med Ctr	17	0	0.00	1.19	0.00	(0.00, 22.04)	10	0.00
Lenox Hill Hospital	83	0	0.00	2.26	0.00	(0.00, 2.39)	64	0.00
Long Island Jewish MC	10	0	0.00	0.47	0.00	(0.00, 94.67)	9	0.00
NYU Winthrop Hospital	2	0	0.00	0.10	0.00	(0.00, 100.0)	2	0.00
North Shore Univ Hosp	2	0	0.00	0.97	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>Kim M</b>	<b>1357</b>	<b>5</b>	<b>0.37</b>	<b>0.73</b>	<b>0.62</b>	<b>(0.20, 1.44)</b>	<b>1299</b>	<b>0.29</b>
Lenox Hill Hospital	1327	5	0.38	0.74	0.62	(0.20, 1.45)	1269	0.30
North Shore Univ Hosp	30	0	0.00	0.37	0.00	(0.00, 39.84)	30	0.00
<b>Korlipara G</b>	<b>303</b>	<b>4</b>	<b>1.32</b>	<b>0.83</b>	<b>1.93</b>	<b>(0.52, 4.95)</b>	<b>284</b>	<b>1.06</b>
South Shore Univ. Hosp	34	0	0.00	0.35	0.00	(0.00, 37.94)	34	0.00
Univ. Hosp-Stony Brook	269	4	1.49	0.89	2.03	(0.55, 5.19)	250	1.12
<b>Koss J</b>	<b>338</b>	<b>3</b>	<b>0.89</b>	<b>0.78</b>	<b>1.40</b>	<b>(0.28, 4.08)</b>	<b>313</b>	<b>1.14</b>
Long Island Jewish MC	132	1	0.76	0.63	1.46	(0.02, 8.10)	125	1.27
NYP Queens	14	0	0.00	1.82	0.00	(0.00, 17.53)	3	0.00
North Shore Univ Hosp	186	2	1.08	0.78	1.69	(0.19, 6.10)	180	1.13
St. Francis Hospital	6	0	0.00	1.41	0.00	(0.00, 52.93)	5	0.00
<b>Krim N</b>	<b>605</b>	<b>4</b>	<b>0.66</b>	<b>1.13</b>	<b>0.71</b>	<b>(0.19, 1.83)</b>	<b>411</b>	<b>0.51</b>
BronxCare Health System	578	4	0.69	1.09	0.78	(0.21, 1.99)	384	0.61
Mount Sinai Morningside	27	0	0.00	2.02	0.00	(0.00, 8.20)	27	0.00
<b>Kruger A</b>	<b>160</b>	<b>2</b>	<b>1.25</b>	<b>1.03</b>	<b>1.48</b>	<b>(0.17, 5.34)</b>	<b>152</b>	<b>1.04</b>
Long Island Comm. Hosp.	43	0	0.00	0.77	0.00	(0.00, 13.42)	39	0.00
North Shore Univ Hosp	113	2	1.77	1.16	1.86	(0.21, 6.73)	109	1.31
Univ. Hosp-Stony Brook	4	0	0.00	0.18	0.00	(0.00, 100.0)	4	0.00
<b>Kukar A</b>	<b>227</b>	<b>3</b>	<b>1.32</b>	<b>0.84</b>	<b>1.91</b>	<b>(0.38, 5.59)</b>	<b>215</b>	<b>0.73</b>
Lenox Hill Hospital	87	2	2.30	1.52	1.85	(0.21, 6.67)	76	0.00
Mount Sinai Hospital	140	1	0.71	0.42	2.06	(0.03, 11.49)	139	1.36
<b>Kumar P</b>	<b>76</b>	<b>0</b>	<b>0.00</b>	<b>1.15</b>	<b>0.00</b>	<b>(0.00, 5.13)</b>	<b>66</b>	<b>0.00</b>
St. Elizabeth Med Ctr	21	0	0.00	1.28	0.00	(0.00, 16.68)	19	0.00
St. Josephs Hospital	55	0	0.00	1.10	0.00	(0.00, 7.42)	47	0.00
<b>Lasic Z</b>	<b>364</b>	<b>1</b>	<b>0.27</b>	<b>0.89</b>	<b>0.37</b>	<b>(0.00, 2.09)</b>	<b>271</b>	<b>0.00</b>
Jamaica Hosp Med Ctr	144	1	0.69	1.60	0.53	(0.01, 2.94)	57	0.00
Lenox Hill Hospital	220	0	0.00	0.43	0.00	(0.00, 4.75)	214	0.00
<b>Lederman S</b>	<b>177</b>	<b>4</b>	<b>2.26</b>	<b>0.98</b>	<b>2.81</b>	<b>(0.76, 7.20)</b>	<b>144</b>	<b>2.17</b>
Peconic Bay Med Ctr	76	2	2.63	0.74	4.34	(0.49, 15.66)	51	4.31
South Shore Univ. Hosp	37	2	5.41	1.25	5.27	(0.59, 19.03)	37	3.33
Stony Brook Southampton	20	0	0.00	1.27	0.00	(0.00, 17.66)	16	0.00
Univ. Hosp-Stony Brook	44	0	0.00	1.04	0.00	(0.00, 9.81)	40	0.00
<b>Lee A</b>	<b>679</b>	<b>5</b>	<b>0.74</b>	<b>1.36</b>	<b>0.66</b>	<b>(0.21, 1.54)</b>	<b>508</b>	<b>0.73</b>
Long Island Jewish MC	608	5	0.82	1.17	0.85	(0.28, 1.99)	488	0.86
North Shore Univ Hosp	71	0	0.00	2.92	0.00	(0.00, 2.16)	20	0.00
<b>Lee P C</b>	<b>58</b>	<b>0</b>	<b>0.00</b>	<b>0.71</b>	<b>0.00</b>	<b>(0.00, 10.82)</b>	<b>53</b>	<b>0.00</b>
NYP Brooklyn Methodist	29	0	0.00	0.32	0.00	(0.00, 48.89)	29	0.00
NYU Langone Hosp-Brooklyn	27	0	0.00	0.84	0.00	(0.00, 19.77)	23	0.00
South Shore Univ. Hosp	2	0	0.00	4.79	0.00	(0.00, 46.73)	1	0.00
<b>Lee P J</b>	<b>1144</b>	<b>10</b>	<b>0.87</b>	<b>0.55</b>	<b>1.94</b>	<b>(0.93, 3.57)</b>	<b>1087</b>	<b>1.59</b>
Good Sam Univ Hosp	871	8	0.92	0.55	2.03	(0.87, 4.00)	831	1.65
South Shore Univ. Hosp	273	2	0.73	0.54	1.65	(0.18, 5.94)	256	1.38
<b>Madiraju S</b>	<b>484</b>	<b>8</b>	<b>1.65</b>	<b>1.95</b>	<b>1.04</b>	<b>(0.45, 2.04)</b>	<b>317</b>	<b>0.50</b>
Albany Med. Ctr	3	0	0.00	13.72	0.00	(0.00, 10.86)	2	0.00
Ellis Hospital	481	8	1.66	1.87	1.08	(0.47, 2.13)	315	0.50
<b>Mangla A</b>	<b>418</b>	<b>1</b>	<b>0.24</b>	<b>1.84</b>	<b>0.16 **</b>	<b>(0.00, 0.88)</b>	<b>319</b>	<b>0.50</b>
Jamaica Hosp Med Ctr	210	0	0.00	3.23	0.00 **	(0.00, 0.66)	115	0.00
Lenox Hill Hospital	208	1	0.48	0.44	1.32	(0.02, 7.34)	204	1.12
<b>Marchant D</b>	<b>124</b>	<b>2</b>	<b>1.61</b>	<b>1.73</b>	<b>1.13</b>	<b>(0.13, 4.09)</b>	<b>72</b>	<b>2.05</b>
Long Island Jewish MC	16	0	0.00	2.42	0.00	(0.00, 11.54)	2	0.00
North Shore Univ Hosp	108	2	1.85	1.63	1.38	(0.16, 4.99)	70	2.10

Table 6, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Maroney J</b>	<b>680</b>	<b>15</b>	<b>2.21</b>	<b>1.13</b>	<b>2.38 *</b>	<b>(1.33, 3.92)</b>	<b>521</b>	<b>2.05 *</b>
Albany Med. Ctr	426	10	2.35	1.03	2.79 *	(1.33, 5.12)	355	2.11
Samaritan Hospital	48	1	2.08	1.55	1.64	(0.02, 9.12)	14	0.00
St. Peter's Hospital	206	4	1.94	1.25	1.90	(0.51, 4.86)	152	2.13
<b>Martinelli M</b>	<b>525</b>	<b>10</b>	<b>1.90</b>	<b>1.14</b>	<b>2.04</b>	<b>(0.97, 3.74)</b>	<b>431</b>	<b>1.25</b>
Samaritan Hospital	12	1	8.33	1.95	5.20	(0.07, 28.92)	4	0.00
St. Peter's Hospital	513	9	1.75	1.12	1.91	(0.87, 3.62)	427	1.26
<b>Masud Ali</b>	<b>482</b>	<b>14</b>	<b>2.90</b>	<b>1.65</b>	<b>2.15</b>	<b>(1.17, 3.60)</b>	<b>341</b>	<b>1.13</b>
Mercy Hospital-Buffalo	472	14	2.97	1.65	2.19	(1.20, 3.68)	335	1.14
Niagara Falls Memorial	10	0	0.00	1.55	0.00	(0.00, 28.90)	6	0.00
<b>McGlynn S</b>	<b>69</b>	<b>3</b>	<b>4.35</b>	<b>2.10</b>	<b>2.53</b>	<b>(0.51, 7.38)</b>	<b>30</b>	<b>0.00</b>
Stony Brook Southampton	68	3	4.41	2.12	2.53	(0.51, 7.40)	29	0.00
Univ. Hosp-Stony Brook	1	0	0.00	0.36	0.00	(0.00, 100.0)	1	0.00
<b>McNulty P</b>	<b>168</b>	<b>3</b>	<b>1.79</b>	<b>2.18</b>	<b>1.00</b>	<b>(0.20, 2.92)</b>	<b>86</b>	<b>0.00</b>
Bassett Medical Center	31	0	0.00	2.15	0.00	(0.00, 6.70)	18	0.00
Saratoga Hospital	137	3	2.19	2.18	1.22	(0.25, 3.58)	68	0.00
<b>Meltser H</b>	<b>916</b>	<b>18</b>	<b>1.97</b>	<b>1.36</b>	<b>1.77</b>	<b>(1.05, 2.79)</b>	<b>683</b>	<b>1.48</b>
Mercy Hospital-Buffalo	915	18	1.97	1.36	1.77	(1.05, 2.79)	682	1.48
Niagara Falls Memorial	1	0	0.00	0.29	0.00	(0.00, 100.0)	1	0.00
<b>Menegus M</b>	<b>537</b>	<b>7</b>	<b>1.30</b>	<b>1.20</b>	<b>1.33</b>	<b>(0.53, 2.74)</b>	<b>429</b>	<b>0.91</b>
Montefiore - Weiler	535	7	1.31	1.19	1.34	(0.54, 2.77)	429	0.91
White Plains Hospital	2	0	0.00	3.49	0.00	(0.00, 64.00)	.	.
<b>Meraj P</b>	<b>891</b>	<b>9</b>	<b>1.01</b>	<b>1.40</b>	<b>0.88</b>	<b>(0.40, 1.67)</b>	<b>734</b>	<b>0.52</b>
Long Island Jewish MC	16	0	0.00	1.61	0.00	(0.00, 17.33)	4	0.00
North Shore Univ Hosp	875	9	1.03	1.40	0.90	(0.41, 1.71)	730	0.52
<b>Messinger D</b>	<b>205</b>	<b>6</b>	<b>2.93</b>	<b>1.59</b>	<b>2.24</b>	<b>(0.82, 4.87)</b>	<b>164</b>	<b>1.48</b>
Montefiore - Weiler	7	0	0.00	9.55	0.00	(0.00, 6.69)	6	0.00
Westchester Med Ctr	6	0	0.00	0.26	0.00	(0.00, 100.0)	6	0.00
White Plains Hospital	192	6	3.13	1.35	2.83	(1.03, 6.16)	152	2.23
<b>Mignatti A</b>	<b>183</b>	<b>3</b>	<b>1.64</b>	<b>2.53</b>	<b>0.79</b>	<b>(0.16, 2.31)</b>	<b>140</b>	<b>1.08</b>
Lenox Hill Hospital	131	2	1.53	3.13	0.59	(0.07, 2.15)	91	0.87
North Shore Univ Hosp	52	1	1.92	1.03	2.29	(0.03, 12.72)	49	1.44
<b>Monrad E</b>	<b>278</b>	<b>3</b>	<b>1.08</b>	<b>1.48</b>	<b>0.89</b>	<b>(0.18, 2.60)</b>	<b>196</b>	<b>0.81</b>
Montefiore - Weiler	275	3	1.09	1.48	0.90	(0.18, 2.62)	194	0.81
St. Barnabas Hospital	2	0	0.00	1.69	0.00	(0.00, 100.0)	1	0.00
White Plains Hospital	1	0	0.00	0.62	0.00	(0.00, 100.0)	1	0.00
<b>Moreno P</b>	<b>920</b>	<b>6</b>	<b>0.65</b>	<b>0.89</b>	<b>0.89</b>	<b>(0.32, 1.94)</b>	<b>888</b>	<b>0.64</b>
Mount Sinai Hospital	8	0	0.00	1.74	0.00	(0.00, 32.07)	8	0.00
Mount Sinai Morningside	912	6	0.66	0.89	0.90	(0.33, 1.97)	880	0.66
<b>Morris W</b>	<b>637</b>	<b>7</b>	<b>1.10</b>	<b>1.11</b>	<b>1.21</b>	<b>(0.48, 2.49)</b>	<b>524</b>	<b>0.44</b>
Buffalo General Med Ctr	626	7	1.12	1.10	1.24	(0.50, 2.56)	520	0.44
Mercy Hospital-Buffalo	1	0	0.00	0.07	0.00	(0.00, 100.0)	1	0.00
Niagara Falls Memorial	3	0	0.00	0.94	0.00	(0.00, 100.0)	.	.
Olean General Hosp.	7	0	0.00	2.49	0.00	(0.00, 25.64)	3	0.00
<b>Moses J</b>	<b>1059</b>	<b>10</b>	<b>0.94</b>	<b>0.56</b>	<b>2.07</b>	<b>(0.99, 3.80)</b>	<b>1056</b>	<b>1.31</b>
NYP Columbia Presby.	958	9	0.94	0.56	2.05	(0.94, 3.89)	956	1.29
St. Francis Hospital	101	1	0.99	0.54	2.23	(0.03, 12.40)	100	1.52
<b>Motivala A</b>	<b>37</b>	<b>2</b>	<b>5.41</b>	<b>1.16</b>	<b>5.70</b>	<b>(0.64, 20.58)</b>	<b>33</b>	<b>2.13</b>
Garnet Health Med Ctr	10	1	10.00	1.60	7.62	(0.10, 42.41)	6	0.00
NYP Columbia Presby.	27	1	3.70	0.99	4.55	(0.06, 25.34)	27	2.63



Table 6, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Mousa T</b>	<b>145</b>	<b>0</b>	<b>0.00</b>	<b>0.22</b>	<b>0.00</b>	<b>(0.00, 13.89)</b>	<b>145</b>	<b>0.00</b>
Lenox Hill Hospital	93	0	0.00	0.19	0.00	(0.00, 25.55)	93	0.00
NYU Winthrop Hospital	52	0	0.00	0.28	0.00	(0.00, 30.45)	52	0.00
<b>Munshi M</b>	<b>40</b>	<b>1</b>	<b>2.50</b>	<b>0.99</b>	<b>3.08</b>	<b>(0.04, 17.16)</b>	<b>27</b>	<b>0.00</b>
Bassett Medical Center	4	0	0.00	1.67	0.00	(0.00, 66.97)	2	0.00
St. Josephs Hospital	1	0	0.00	0.36	0.00	(0.00, 100.0)	1	0.00
Univ. Hosp-Upstate	35	1	2.86	0.93	3.75	(0.05, 20.87)	24	0.00
<b>Naidu S</b>	<b>198</b>	<b>3</b>	<b>1.52</b>	<b>2.04</b>	<b>0.90</b>	<b>(0.18, 2.64)</b>	<b>128</b>	<b>1.26</b>
NYU Winthrop Hospital	17	0	0.00	0.31	0.00	(0.00, 85.93)	17	0.00
Westchester Med Ctr	181	3	1.66	2.21	0.92	(0.18, 2.68)	111	1.32
<b>Nappi A</b>	<b>429</b>	<b>15</b>	<b>3.50</b>	<b>1.78</b>	<b>2.40 *</b>	<b>(1.34, 3.96)</b>	<b>328</b>	<b>1.74</b>
Albany Med. Ctr	411	15	3.65	1.73	2.57 *	(1.44, 4.24)	326	1.74
Bassett Medical Center	10	0	0.00	3.71	0.00	(0.00, 12.06)	1	0.00
Saratoga Hospital	8	0	0.00	1.59	0.00	(0.00, 35.16)	1	0.00
<b>Nazif T</b>	<b>163</b>	<b>3</b>	<b>1.84</b>	<b>2.10</b>	<b>1.07</b>	<b>(0.21, 3.12)</b>	<b>145</b>	<b>0.80</b>
NYP Columbia Presby.	158	3	1.90	2.15	1.08	(0.22, 3.14)	141	0.80
NYP Westchester	5	0	0.00	0.53	0.00	(0.00, 100.0)	4	0.00
<b>O'Hern M</b>	<b>536</b>	<b>6</b>	<b>1.12</b>	<b>1.51</b>	<b>0.90</b>	<b>(0.33, 1.96)</b>	<b>410</b>	<b>0.30</b>
St. Josephs Hospital	523	6	1.15	1.53	0.92	(0.33, 1.99)	400	0.31
Univ. Hosp-Upstate	13	0	0.00	1.04	0.00	(0.00, 33.06)	10	0.00
<b>Ong Lawrence</b>	<b>178</b>	<b>0</b>	<b>0.00</b>	<b>0.95</b>	<b>0.00</b>	<b>(0.00, 2.65)</b>	<b>161</b>	<b>0.00</b>
Huntington Hospital	101	0	0.00	1.12	0.00	(0.00, 3.96)	88	0.00
North Shore Univ Hosp	31	0	0.00	0.58	0.00	(0.00, 24.69)	31	0.00
South Shore Univ. Hosp	46	0	0.00	0.82	0.00	(0.00, 11.85)	42	0.00
<b>Ong Ling</b>	<b>1140</b>	<b>19</b>	<b>1.67</b>	<b>0.96</b>	<b>2.11 *</b>	<b>(1.27, 3.29)</b>	<b>1031</b>	<b>1.23</b>
Cayuga Med Ctr Ithaca	2	0	0.00	1.01	0.00	(0.00, 100.0)	2	0.00
Rochester General Hosp	1137	19	1.67	0.96	2.11 *	(1.27, 3.30)	1028	1.23
Unity Hospital	1	0	0.00	0.05	0.00	(0.00, 100.0)	1	0.00
<b>Palkhiwala S</b>	<b>457</b>	<b>0</b>	<b>0.00</b>	<b>0.25</b>	<b>0.00</b>	<b>(0.00, 3.95)</b>	<b>457</b>	<b>0.00</b>
Mount Sinai Hospital	80	0	0.00	0.29	0.00	(0.00, 19.35)	80	0.00
NYU Hospitals Center	377	0	0.00	0.24	0.00	(0.00, 4.96)	377	0.00
<b>Papadakos S</b>	<b>500</b>	<b>4</b>	<b>0.80</b>	<b>0.99</b>	<b>0.99</b>	<b>(0.27, 2.53)</b>	<b>455</b>	<b>1.04</b>
NYP Queens	118	2	1.69	1.94	1.07	(0.12, 3.85)	76	1.42
NYU Hospitals Center	359	2	0.56	0.63	1.08	(0.12, 3.89)	357	0.92
NYU Winthrop Hospital	17	0	0.00	1.24	0.00	(0.00, 21.15)	16	0.00
North Shore Univ Hosp	6	0	0.00	3.02	0.00	(0.00, 24.71)	6	0.00
<b>Papaleo R</b>	<b>549</b>	<b>10</b>	<b>1.82</b>	<b>0.80</b>	<b>2.78 *</b>	<b>(1.33, 5.12)</b>	<b>415</b>	<b>2.12</b>
Albany Med. Ctr	23	2	8.70	1.70	6.24	(0.70, 22.54)	5	0.00
Glens Falls Hospital	19	0	0.00	2.09	0.00	(0.00, 11.24)	1	0.00
Samaritan Hospital	496	7	1.41	0.70	2.45	(0.98, 5.06)	409	2.14
Saratoga Hospital	1	0	0.00	1.83	0.00	(0.00, 100.0)	.	.
St. Peter's Hospital	10	1	10.00	1.00	12.24	(0.16, 68.08)	.	.
<b>Park C</b>	<b>383</b>	<b>1</b>	<b>0.26</b>	<b>0.35</b>	<b>0.90</b>	<b>(0.01, 5.00)</b>	<b>375</b>	<b>0.68</b>
NYP Queens	274	0	0.00	0.27	0.00	(0.00, 6.11)	274	0.00
St. Francis Hospital	109	1	0.92	0.57	1.95	(0.03, 10.83)	101	2.03
<b>Patcha R</b>	<b>210</b>	<b>3</b>	<b>1.43</b>	<b>0.94</b>	<b>1.85</b>	<b>(0.37, 5.41)</b>	<b>177</b>	<b>0.87</b>
Huntington Hospital	184	3	1.63	1.00	1.98	(0.40, 5.78)	151	1.01
North Shore Univ Hosp	12	0	0.00	0.47	0.00	(0.00, 79.13)	12	0.00
South Shore Univ. Hosp	11	0	0.00	0.40	0.00	(0.00, 100.0)	11	0.00
St. Francis Hospital	3	0	0.00	0.80	0.00	(0.00, 100.0)	3	0.00



Table 6, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Patel Amisha</b>	<b>267</b>	<b>7</b>	<b>2.62</b>	<b>1.21</b>	<b>2.64</b>	<b>(1.06, 5.44)</b>	<b>220</b>	<b>2.35 *</b>
NYP Columbia Presby.	259	7	2.70	1.21	2.72	(1.09, 5.60)	220	2.35 *
NYP Westchester	8	0	0.00	1.20	0.00	(0.00, 46.75)	.	.
<b>Patel Neal</b>	<b>297</b>	<b>3</b>	<b>1.01</b>	<b>0.77</b>	<b>1.61</b>	<b>(0.32, 4.70)</b>	<b>272</b>	<b>0.87</b>
St. Catherine of Siena	11	0	0.00	0.48	0.00	(0.00, 84.30)	9	0.00
Univ. Hosp-Stony Brook	286	3	1.05	0.78	1.65	(0.33, 4.81)	263	0.90
<b>Patel R B</b>	<b>203</b>	<b>3</b>	<b>1.48</b>	<b>1.63</b>	<b>1.10</b>	<b>(0.22, 3.22)</b>	<b>91</b>	<b>0.00</b>
Good Sam Univ Hosp	65	2	3.08	2.01	1.87	(0.21, 6.74)	26	0.00
NYU Winthrop Hospital	2	0	0.00	0.08	0.00	(0.00, 100.0)	2	0.00
South Shore Univ. Hosp	46	1	2.17	2.32	1.14	(0.01, 6.35)	5	0.00
St. Catherine of Siena	90	0	0.00	1.05	0.00	(0.00, 4.75)	58	0.00
<b>Patel T</b>	<b>887</b>	<b>18</b>	<b>2.03</b>	<b>1.66</b>	<b>1.49</b>	<b>(0.88, 2.35)</b>	<b>680</b>	<b>0.80</b>
Rochester General Hosp	393	8	2.04	1.88	1.32	(0.57, 2.60)	292	0.74
Unity Hospital	494	10	2.02	1.48	1.66	(0.80, 3.06)	388	0.84
<b>Patel V</b>	<b>205</b>	<b>1</b>	<b>0.49</b>	<b>0.43</b>	<b>1.39</b>	<b>(0.02, 7.74)</b>	<b>201</b>	<b>0.99</b>
Mount Sinai Hospital	47	0	0.00	0.47	0.00	(0.00, 20.15)	47	0.00
NYP Brooklyn Methodist	158	1	0.63	0.41	1.86	(0.02, 10.36)	154	1.34
<b>Patrello A</b>	<b>663</b>	<b>9</b>	<b>1.36</b>	<b>1.27</b>	<b>1.31</b>	<b>(0.60, 2.48)</b>	<b>556</b>	<b>1.13</b>
Montefiore St. Lukes	362	7	1.93	1.12	2.10	(0.84, 4.33)	312	1.71
Vassar Bros. Med Ctr	301	2	0.66	1.44	0.56	(0.06, 2.03)	244	0.37
<b>Petrosian G</b>	<b>642</b>	<b>7</b>	<b>1.09</b>	<b>1.17</b>	<b>1.14</b>	<b>(0.46, 2.34)</b>	<b>636</b>	<b>0.82</b>
Mount Sinai South Nassau	24	0	0.00	0.54	0.00	(0.00, 34.61)	23	0.00
St. Francis Hospital	618	7	1.13	1.19	1.16	(0.46, 2.38)	613	0.84
<b>Phadke K</b>	<b>653</b>	<b>8</b>	<b>1.23</b>	<b>1.50</b>	<b>1.00</b>	<b>(0.43, 1.97)</b>	<b>447</b>	<b>0.90</b>
Buffalo General Med Ctr	637	8	1.26	1.49	1.03	(0.44, 2.03)	445	0.90
Mercy Hospital-Buffalo	1	0	0.00	0.08	0.00	(0.00, 100.0)	1	0.00
Niagara Falls Memorial	5	0	0.00	4.23	0.00	(0.00, 21.15)	.	.
Olean General Hosp.	10	0	0.00	0.99	0.00	(0.00, 44.95)	1	0.00
<b>Polena S</b>	<b>383</b>	<b>4</b>	<b>1.04</b>	<b>0.80</b>	<b>1.60</b>	<b>(0.43, 4.09)</b>	<b>316</b>	<b>0.45</b>
Huntington Hospital	352	4	1.14	0.80	1.74	(0.47, 4.46)	285	0.53
North Shore Univ Hosp	31	0	0.00	0.82	0.00	(0.00, 17.52)	31	0.00
<b>Poumpouridis K</b>	<b>127</b>	<b>1</b>	<b>0.79</b>	<b>0.75</b>	<b>1.27</b>	<b>(0.02, 7.09)</b>	<b>119</b>	<b>0.89</b>
North Shore Univ Hosp	118	1	0.85	0.78	1.32	(0.02, 7.36)	111	0.91
South Shore Univ. Hosp	9	0	0.00	0.40	0.00	(0.00, 100.0)	8	0.00
<b>Pucillo A</b>	<b>145</b>	<b>2</b>	<b>1.38</b>	<b>0.82</b>	<b>2.06</b>	<b>(0.23, 7.45)</b>	<b>141</b>	<b>1.54</b>
NYP Columbia Presby.	143	2	1.40	0.82	2.07	(0.23, 7.47)	139	1.55
NYP Westchester	2	0	0.00	0.15	0.00	(0.00, 100.0)	2	0.00
<b>Pulipati B</b>	<b>181</b>	<b>1</b>	<b>0.55</b>	<b>1.12</b>	<b>0.60</b>	<b>(0.01, 3.36)</b>	<b>141</b>	<b>0.89</b>
Long Island Comm. Hosp.	159	1	0.63	1.12	0.69	(0.01, 3.82)	119	1.23
Univ. Hosp-Stony Brook	22	0	0.00	1.12	0.00	(0.00, 18.18)	22	0.00
<b>Puma J</b>	<b>468</b>	<b>2</b>	<b>0.43</b>	<b>0.79</b>	<b>0.66</b>	<b>(0.07, 2.37)</b>	<b>458</b>	<b>0.25</b>
Mount Sinai Beth Israel	93	1	1.08	0.64	2.04	(0.03, 11.35)	92	0.00
Mount Sinai Morningside	320	1	0.31	0.90	0.43	(0.01, 2.37)	311	0.33
NYP Columbia Presby.	55	0	0.00	0.45	0.00	(0.00, 18.05)	55	0.00
<b>Pyo R</b>	<b>807</b>	<b>14</b>	<b>1.73</b>	<b>1.71</b>	<b>1.24</b>	<b>(0.68, 2.08)</b>	<b>639</b>	<b>0.86</b>
Elmhurst Hospital Ctr	22	1	4.55	2.45	2.27	(0.03, 12.61)	1	0.00
Montefiore - Moses	207	3	1.45	1.33	1.33	(0.27, 3.88)	174	1.15
St. Barnabas Hospital	8	0	0.00	2.06	0.00	(0.00, 27.18)	2	0.00
Univ. Hosp-Stony Brook	570	10	1.75	1.81	1.18	(0.56, 2.17)	462	0.78

Table 6, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Ratcliffe J</b>	<b>316</b>	<b>5</b>	<b>1.58</b>	<b>0.98</b>	<b>1.96</b>	<b>(0.63, 4.58)</b>	<b>298</b>	<b>1.34</b>
Mount Sinai Beth Israel	36	0	0.00	0.39	0.00	(0.00, 32.22)	36	0.00
Mount Sinai Morningside	242	5	2.07	1.16	2.17	(0.70, 5.07)	224	1.51
NYP Columbia Presby.	38	0	0.00	0.43	0.00	(0.00, 27.65)	38	0.00
<b>Rauch J</b>	<b>272</b>	<b>4</b>	<b>1.47</b>	<b>1.39</b>	<b>1.29</b>	<b>(0.35, 3.31)</b>	<b>236</b>	<b>0.29</b>
Montefiore - Moses	263	4	1.52	1.38	1.34	(0.36, 3.44)	232	0.31
Montefiore - Weiler	3	0	0.00	0.49	0.00	(0.00, 100.0)	3	0.00
St. Barnabas Hospital	6	0	0.00	2.09	0.00	(0.00, 35.67)	1	0.00
<b>Raza J</b>	<b>141</b>	<b>0</b>	<b>0.00</b>	<b>0.27</b>	<b>0.00</b>	<b>(0.00, 11.95)</b>	<b>138</b>	<b>0.00</b>
Jamaica Hosp Med Ctr	2	0	0.00	0.80	0.00	(0.00, 100.0)	.	.
Lenox Hill Hospital	139	0	0.00	0.26	0.00	(0.00, 12.49)	138	0.00
<b>Razzouk L</b>	<b>629</b>	<b>3</b>	<b>0.48</b>	<b>0.93</b>	<b>0.62</b>	<b>(0.13, 1.82)</b>	<b>541</b>	<b>0.42</b>
Bellevue Hospital Ctr	10	0	0.00	3.82	0.00	(0.00, 11.70)	1	0.00
NYU Hospitals Center	619	3	0.48	0.89	0.67	(0.13, 1.95)	540	0.42
<b>Reddy K</b>	<b>332</b>	<b>6</b>	<b>1.81</b>	<b>1.84</b>	<b>1.20</b>	<b>(0.44, 2.61)</b>	<b>281</b>	<b>1.13</b>
Mount Sinai South Nassau	8	0	0.00	0.60	0.00	(0.00, 93.54)	8	0.00
St. Francis Hospital	324	6	1.85	1.87	1.21	(0.44, 2.63)	273	1.14
<b>Rehman Asif</b>	<b>469</b>	<b>8</b>	<b>1.71</b>	<b>1.21</b>	<b>1.71</b>	<b>(0.74, 3.38)</b>	<b>330</b>	<b>1.82</b>
Mount Sinai South Nassau	468	8	1.71	1.21	1.72	(0.74, 3.38)	329	1.83
Univ Hosp at Downstate	1	0	0.00	1.13	0.00	(0.00, 100.0)	1	0.00
<b>Rehman S</b>	<b>275</b>	<b>0</b>	<b>0.00</b>	<b>1.10</b>	<b>0.00</b>	<b>(0.00, 1.47)</b>	<b>256</b>	<b>0.00</b>
NYP Brooklyn Methodist	250	0	0.00	1.06	0.00	(0.00, 1.68)	234	0.00
Univ Hosp at Downstate	25	0	0.00	1.51	0.00	(0.00, 11.83)	22	0.00
<b>Reich D</b>	<b>854</b>	<b>6</b>	<b>0.70</b>	<b>0.69</b>	<b>1.24</b>	<b>(0.45, 2.70)</b>	<b>789</b>	<b>0.83</b>
Good Sam Univ Hosp	633	3	0.47	0.63	0.91	(0.18, 2.67)	595	0.58
South Shore Univ. Hosp	221	3	1.36	0.85	1.94	(0.39, 5.68)	194	1.41
<b>Roccario E</b>	<b>539</b>	<b>6</b>	<b>1.11</b>	<b>1.14</b>	<b>1.19</b>	<b>(0.44, 2.59)</b>	<b>426</b>	<b>0.68</b>
Samaritan Hospital	3	0	0.00	0.56	0.00	(0.00, 100.0)	2	0.00
St. Peter's Hospital	536	6	1.12	1.14	1.20	(0.44, 2.60)	424	0.69
<b>Rosenband M</b>	<b>294</b>	<b>5</b>	<b>1.70</b>	<b>1.56</b>	<b>1.33</b>	<b>(0.43, 3.10)</b>	<b>269</b>	<b>0.80</b>
St. Catherine of Siena	127	1	0.79	1.46	0.66	(0.01, 3.67)	115	0.47
Univ. Hosp-Stony Brook	167	4	2.40	1.64	1.78	(0.48, 4.56)	154	1.06
<b>Rosero H</b>	<b>447</b>	<b>3</b>	<b>0.67</b>	<b>0.99</b>	<b>0.83</b>	<b>(0.17, 2.42)</b>	<b>387</b>	<b>0.38</b>
Mount Sinai Beth Israel	430	3	0.70	1.01	0.85	(0.17, 2.47)	370	0.40
NYP Brooklyn Methodist	17	0	0.00	0.58	0.00	(0.00, 45.40)	17	0.00
<b>Royzman R</b>	<b>355</b>	<b>4</b>	<b>1.13</b>	<b>1.54</b>	<b>0.89</b>	<b>(0.24, 2.28)</b>	<b>255</b>	<b>0.63</b>
NYU Langone Hosp-Brooklyn	33	0	0.00	3.14	0.00	(0.00, 4.32)	11	0.00
Staten Island Univ Hosp	322	4	1.24	1.38	1.10	(0.30, 2.82)	244	0.65
<b>Rusovici A</b>	<b>185</b>	<b>2</b>	<b>1.08</b>	<b>2.26</b>	<b>0.58</b>	<b>(0.07, 2.11)</b>	<b>141</b>	<b>0.49</b>
Mount Sinai South Nassau	154	1	0.65	2.11	0.38	(0.00, 2.09)	118	0.58
NYU Winthrop Hospital	31	1	3.23	3.01	1.31	(0.02, 7.27)	23	0.00
<b>Russell M</b>	<b>18</b>	<b>2</b>	<b>11.11</b>	<b>3.61</b>	<b>3.75</b>	<b>(0.42, 13.53)</b>	<b>4</b>	<b>0.00</b>
Brookdale Univ Hosp MC	17	2	11.76	3.73	3.84	(0.43, 13.88)	3	0.00
Univ Hosp at Downstate	1	0	0.00	1.62	0.00	(0.00, 100.0)	1	0.00
<b>Rutkin B</b>	<b>89</b>	<b>3</b>	<b>3.37</b>	<b>1.43</b>	<b>2.87</b>	<b>(0.58, 8.37)</b>	<b>48</b>	<b>0.00</b>
Long Island Jewish MC	6	0	0.00	0.68	0.00	(0.00, 100.0)	1	0.00
North Shore Univ Hosp	83	3	3.61	1.49	2.96	(0.60, 8.65)	47	0.00
<b>Sanghi P</b>	<b>108</b>	<b>0</b>	<b>0.00</b>	<b>0.19</b>	<b>0.00</b>	<b>(0.00, 21.75)</b>	<b>108</b>	<b>0.00</b>
NYP Brooklyn Methodist	32	0	0.00	0.21	0.00	(0.00, 67.79)	32	0.00
NYU Hospitals Center	76	0	0.00	0.18	0.00	(0.00, 32.02)	76	0.00

Table 6, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Schwartz R</b>	<b>1026</b>	<b>14</b>	<b>1.36</b>	<b>1.38</b>	<b>1.21</b>	<b>(0.66, 2.02)</b>	<b>916</b>	<b>0.62</b>
Long Island Comm. Hosp.	18	0	0.00	0.67	0.00	(0.00, 37.12)	18	0.00
NYU Winthrop Hospital	1008	14	1.39	1.39	1.22	(0.66, 2.04)	898	0.63
<b>Selim S</b>	<b>424</b>	<b>6</b>	<b>1.42</b>	<b>0.99</b>	<b>1.74</b>	<b>(0.64, 3.79)</b>	<b>364</b>	<b>1.23</b>
Good Sam Univ Hosp	12	0	0.00	1.06	0.00	(0.00, 35.25)	12	0.00
Long Island Jewish MC	1	0	0.00	0.09	0.00	(0.00, 100.0)	1	0.00
South Shore Univ. Hosp	411	6	1.46	0.99	1.80	(0.66, 3.91)	351	1.29
<b>Serrano-Gomez C</b>	<b>322</b>	<b>4</b>	<b>1.24</b>	<b>0.85</b>	<b>1.78</b>	<b>(0.48, 4.56)</b>	<b>284</b>	<b>1.71</b>
Bellevue Hospital Ctr	17	0	0.00	3.31	0.00	(0.00, 7.96)	3	0.00
NYU Hospitals Center	305	4	1.31	0.71	2.24	(0.60, 5.74)	281	1.73
<b>Shah Ankur</b>	<b>372</b>	<b>3</b>	<b>0.81</b>	<b>0.58</b>	<b>1.70</b>	<b>(0.34, 4.96)</b>	<b>367</b>	<b>1.24</b>
Lenox Hill Hospital	223	2	0.90	0.44	2.50	(0.28, 9.03)	221	1.86
NYP Brooklyn Methodist	149	1	0.67	0.79	1.03	(0.01, 5.76)	146	0.75
<b>Shah B</b>	<b>137</b>	<b>4</b>	<b>2.92</b>	<b>1.59</b>	<b>2.24</b>	<b>(0.60, 5.73)</b>	<b>95</b>	<b>0.00</b>
Bellevue Hospital Ctr	111	3	2.70	1.68	1.96	(0.39, 5.74)	83	0.00
NYU Hospitals Center	26	1	3.85	1.22	3.85	(0.05, 21.43)	12	0.00
<b>Shaqra H</b>	<b>223</b>	<b>4</b>	<b>1.79</b>	<b>1.87</b>	<b>1.17</b>	<b>(0.31, 2.99)</b>	<b>143</b>	<b>0.79</b>
Montefiore - Moses	51	0	0.00	2.63	0.00	(0.00, 3.33)	9	0.00
Montefiore - Weiler	158	4	2.53	1.55	1.99	(0.54, 5.10)	132	0.97
St. Barnabas Hospital	14	0	0.00	2.77	0.00	(0.00, 11.51)	2	0.00
<b>Sharma A</b>	<b>306</b>	<b>4</b>	<b>1.31</b>	<b>1.34</b>	<b>1.19</b>	<b>(0.32, 3.05)</b>	<b>255</b>	<b>0.00</b>
Bassett Medical Center	12	1	8.33	3.26	3.12	(0.04, 17.37)	7	0.00
Bellevue Hospital Ctr	4	0	0.00	0.76	0.00	(0.00, 100.0)	2	0.00
NYP NY Weill Cornell	26	0	0.00	1.71	0.00	(0.00, 10.08)	21	0.00
NYP Queens	4	1	25.00	1.37	22.32	(0.29, 100.0)	.	.
NYU Hospitals Center	143	0	0.00	1.04	0.00	(0.00, 3.02)	140	0.00
NYU Langone Hosp-Brooklyn	117	2	1.71	1.45	1.44	(0.16, 5.20)	85	0.00
<b>Sharma S</b>	<b>3853</b>	<b>19</b>	<b>0.49</b>	<b>0.73</b>	<b>0.82</b>	<b>(0.49, 1.28)</b>	<b>3832</b>	<b>0.50</b>
Mount Sinai Hospital	3835	19	0.50	0.73	0.82	(0.50, 1.29)	3814	0.50
Mount Sinai Morningside	18	0	0.00	0.26	0.00	(0.00, 94.28)	18	0.00
<b>Silverman G</b>	<b>457</b>	<b>2</b>	<b>0.44</b>	<b>1.03</b>	<b>0.52</b>	<b>(0.06, 1.87)</b>	<b>304</b>	<b>0.00</b>
Garnet Health Med Ctr	455	2	0.44	1.03	0.52	(0.06, 1.89)	304	0.00
Montefiore St. Lukes	2	0	0.00	1.92	0.00	(0.00, 100.0)	.	.
<b>Singer G</b>	<b>303</b>	<b>2</b>	<b>0.66</b>	<b>1.18</b>	<b>0.68</b>	<b>(0.08, 2.45)</b>	<b>291</b>	<b>0.63</b>
Rochester General Hosp	289	1	0.35	1.03	0.41	(0.01, 2.28)	281	0.36
Unity Hospital	14	1	7.14	4.39	1.98	(0.03, 11.04)	10	2.44
<b>Singh A</b>	<b>860</b>	<b>4</b>	<b>0.47</b>	<b>1.03</b>	<b>0.55</b>	<b>(0.15, 1.41)</b>	<b>691</b>	<b>0.47</b>
Long Island Jewish MC	701	1	0.14	0.87	0.20 **	(0.00, 1.12)	586	0.22
North Shore Univ Hosp	159	3	1.89	1.74	1.32	(0.27, 3.86)	105	1.15
<b>Singh G</b>	<b>194</b>	<b>1</b>	<b>0.52</b>	<b>1.13</b>	<b>0.56</b>	<b>(0.01, 3.10)</b>	<b>118</b>	<b>0.00</b>
Jamaica Hosp Med Ctr	145	1	0.69	1.31	0.64	(0.01, 3.58)	70	0.00
Lenox Hill Hospital	49	0	0.00	0.60	0.00	(0.00, 15.32)	48	0.00
<b>Singh T</b>	<b>165</b>	<b>0</b>	<b>0.00</b>	<b>0.21</b>	<b>0.00</b>	<b>(0.00, 13.12)</b>	<b>165</b>	<b>0.00</b>
NYP Brooklyn Methodist	87	0	0.00	0.25	0.00	(0.00, 20.71)	87	0.00
NYU Hospitals Center	78	0	0.00	0.16	0.00	(0.00, 35.84)	78	0.00
<b>Slotwiner A</b>	<b>209</b>	<b>3</b>	<b>1.44</b>	<b>1.89</b>	<b>0.93</b>	<b>(0.19, 2.71)</b>	<b>164</b>	<b>1.15</b>
NYP Brooklyn Methodist	7	0	0.00	0.34	0.00	(0.00, 100.0)	7	0.00
NYP NY Weill Cornell	22	0	0.00	2.41	0.00	(0.00, 8.44)	19	0.00
NYP Queens	8	0	0.00	7.68	0.00	(0.00, 7.28)	.	.
NYU Hospitals Center	66	1	1.52	2.06	0.90	(0.01, 4.99)	61	0.00
NYU Langone Hosp-Brooklyn	106	2	1.89	1.34	1.72	(0.19, 6.22)	77	4.51

Table 6, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Smilowitz N</b>	<b>104</b>	<b>1</b>	<b>0.96</b>	<b>1.67</b>	<b>0.70</b>	<b>(0.01, 3.91)</b>	<b>45</b>	<b>1.37</b>
Bellevue Hospital Ctr	37	1	2.70	2.25	1.46	(0.02, 8.14)	13	3.49
NYU Hospitals Center	67	0	0.00	1.34	0.00	(0.00, 4.96)	32	0.00
<b>Smyrlis A</b>	<b>365</b>	<b>10</b>	<b>2.74</b>	<b>2.09</b>	<b>1.60</b>	<b>(0.76, 2.93)</b>	<b>195</b>	<b>0.53</b>
Mount Sinai South Nassau	364	10	2.75	2.10	1.60	(0.76, 2.93)	194	0.53
NYU Winthrop Hospital	1	0	0.00	0.11	0.00	(0.00, 100.0)	1	0.00
<b>Snyder S</b>	<b>151</b>	<b>1</b>	<b>0.66</b>	<b>1.01</b>	<b>0.80</b>	<b>(0.01, 4.45)</b>	<b>113</b>	<b>0.88</b>
Richmond Univ Med Cntr	5	0	0.00	1.37	0.00	(0.00, 65.38)	.	.
Staten Island Univ Hosp	146	1	0.68	1.00	0.84	(0.01, 4.66)	113	0.88
<b>Srinivas G</b>	<b>150</b>	<b>1</b>	<b>0.67</b>	<b>0.45</b>	<b>1.81</b>	<b>(0.02, 10.08)</b>	<b>148</b>	<b>1.16</b>
Long Island Jewish MC	113	1	0.88	0.45	2.40	(0.03, 13.36)	111	1.56
North Shore Univ Hosp	37	0	0.00	0.45	0.00	(0.00, 27.09)	37	0.00
<b>Srivastava S</b>	<b>93</b>	<b>0</b>	<b>0.00</b>	<b>0.44</b>	<b>0.00</b>	<b>(0.00, 11.00)</b>	<b>91</b>	<b>0.00</b>
NYP NY Weill Cornell	13	0	0.00	0.30	0.00	(0.00, 100.0)	12	0.00
NYU Hospitals Center	22	0	0.00	0.31	0.00	(0.00, 64.89)	22	0.00
NYU Langone Hosp-Brooklyn	58	0	0.00	0.52	0.00	(0.00, 14.96)	57	0.00
<b>Stathopoulos I</b>	<b>261</b>	<b>1</b>	<b>0.38</b>	<b>0.50</b>	<b>0.93</b>	<b>(0.01, 5.18)</b>	<b>261</b>	<b>0.61</b>
Lenox Hill Hospital	39	0	0.00	0.47	0.00	(0.00, 24.53)	39	0.00
Mount Sinai Morningside	25	0	0.00	1.06	0.00	(0.00, 16.94)	25	0.00
NYP Columbia Presby.	197	1	0.51	0.44	1.41	(0.02, 7.86)	197	0.95
<b>Strizik B</b>	<b>370</b>	<b>4</b>	<b>1.08</b>	<b>1.29</b>	<b>1.02</b>	<b>(0.28, 2.62)</b>	<b>255</b>	<b>0.93</b>
Huntington Hospital	319	4	1.25	1.36	1.13	(0.30, 2.88)	204	1.29
North Shore Univ Hosp	51	0	0.00	0.85	0.00	(0.00, 10.29)	51	0.00
<b>Suleman J</b>	<b>424</b>	<b>1</b>	<b>0.24</b>	<b>0.29</b>	<b>0.99</b>	<b>(0.01, 5.52)</b>	<b>423</b>	<b>0.64</b>
Jamaica Hosp Med Ctr	2	0	0.00	1.12	0.00	(0.00, 100.0)	2	0.00
Mount Sinai Hospital	422	1	0.24	0.29	1.01	(0.01, 5.62)	421	0.66
<b>Sullivan P</b>	<b>156</b>	<b>3</b>	<b>1.92</b>	<b>2.51</b>	<b>0.93</b>	<b>(0.19, 2.73)</b>	<b>61</b>	<b>0.00</b>
Buffalo General Med Ctr	149	3	2.01	2.56	0.96	(0.19, 2.80)	57	0.00
Mercy Hospital-Buffalo	4	0	0.00	0.39	0.00	(0.00, 100.0)	4	0.00
Olean General Hosp.	3	0	0.00	2.73	0.00	(0.00, 54.64)	.	.
<b>Swamy S</b>	<b>53</b>	<b>1</b>	<b>1.89</b>	<b>1.25</b>	<b>1.84</b>	<b>(0.02, 10.23)</b>	<b>41</b>	<b>0.00</b>
Richmond Univ Med Cntr	49	1	2.04	1.32	1.89	(0.02, 10.52)	38	0.00
Staten Island Univ Hosp	4	0	0.00	0.47	0.00	(0.00, 100.0)	3	0.00
<b>Tamis-Holland J</b>	<b>192</b>	<b>2</b>	<b>1.04</b>	<b>1.53</b>	<b>0.83</b>	<b>(0.09, 2.99)</b>	<b>132</b>	<b>0.00</b>
BronxCare Health System	37	0	0.00	1.76	0.00	(0.00, 6.87)	19	0.00
Mount Sinai Morningside	155	2	1.29	1.48	1.06	(0.12, 3.84)	113	0.00
<b>Tomey M</b>	<b>171</b>	<b>3</b>	<b>1.75</b>	<b>2.20</b>	<b>0.97</b>	<b>(0.20, 2.84)</b>	<b>129</b>	<b>0.66</b>
Mount Sinai Hospital	3	0	0.00	0.17	0.00	(0.00, 100.0)	3	0.00
Mount Sinai Morningside	168	3	1.79	2.23	0.97	(0.20, 2.85)	126	0.67
<b>Vahl T</b>	<b>177</b>	<b>9</b>	<b>5.08</b>	<b>2.66</b>	<b>2.33</b>	<b>(1.06, 4.42)</b>	<b>142</b>	<b>1.69</b>
NYP Columbia Presby.	157	7	4.46	2.66	2.04	(0.82, 4.21)	136	1.83
NYP Westchester	20	2	10.00	2.66	4.58	(0.51, 16.53)	6	0.00
<b>Vales L</b>	<b>85</b>	<b>1</b>	<b>1.18</b>	<b>2.98</b>	<b>0.48</b>	<b>(0.01, 2.68)</b>	<b>63</b>	<b>0.00</b>
Bellevue Hospital Ctr	14	1	7.14	9.26	0.94	(0.01, 5.23)	6	0.00
NYU Hospitals Center	71	0	0.00	1.74	0.00	(0.00, 3.61)	57	0.00
<b>Warchol A</b>	<b>51</b>	<b>0</b>	<b>0.00</b>	<b>0.41</b>	<b>0.00</b>	<b>(0.00, 21.35)</b>	<b>50</b>	<b>0.00</b>
NYP Columbia Presby.	1	0	0.00	0.16	0.00	(0.00, 100.0)	1	0.00
Staten Island Univ Hosp	50	0	0.00	0.42	0.00	(0.00, 21.52)	49	0.00

Table 6, *continued*

	Cases	Deaths	All Cases			95% CI for RAMR	Non-Emergency	
			OMR	EMR	RAMR		CASES	RAMR
<b>Weinberg M</b>	<b>159</b>	<b>1</b>	<b>0.63</b>	<b>1.74</b>	<b>0.44</b>	<b>(0.01, 2.45)</b>	<b>89</b>	<b>0.00</b>
Lenox Hill Hospital	23	0	0.00	0.65	0.00	(0.00, 29.74)	21	0.00
Long Island Jewish MC	12	0	0.00	1.51	0.00	(0.00, 24.69)	1	0.00
North Shore Univ Hosp	124	1	0.81	1.96	0.50	(0.01, 2.79)	67	0.00
<b>Weinstein J</b>	<b>515</b>	<b>4</b>	<b>0.78</b>	<b>1.03</b>	<b>0.92</b>	<b>(0.25, 2.35)</b>	<b>474</b>	<b>0.82</b>
St. Catherine of Siena	30	0	0.00	2.30	0.00	(0.00, 6.49)	16	0.00
St. Francis Hospital	7	0	0.00	0.19	0.00	(0.00, 100.0)	7	0.00
Univ. Hosp-Stony Brook	478	4	0.84	0.96	1.06	(0.28, 2.71)	451	0.85
<b>Weisz G</b>	<b>304</b>	<b>4</b>	<b>1.32</b>	<b>0.94</b>	<b>1.70</b>	<b>(0.46, 4.35)</b>	<b>267</b>	<b>1.13</b>
Montefiore - Moses	223	2	0.90	0.85	1.29	(0.14, 4.65)	195	0.62
Montefiore - Weiler	78	2	2.56	1.10	2.85	(0.32, 10.30)	71	1.94
St. Barnabas Hospital	3	0	0.00	4.08	0.00	(0.00, 36.53)	1	0.00
<b>Wiley J</b>	<b>183</b>	<b>4</b>	<b>2.19</b>	<b>1.73</b>	<b>1.54</b>	<b>(0.41, 3.94)</b>	<b>111</b>	<b>0.00</b>
Elmhurst Hospital Ctr	40	1	2.50	3.51	0.87	(0.01, 4.84)	2	0.00
Montefiore - Moses	133	3	2.26	1.18	2.33	(0.47, 6.81)	102	0.00
Montefiore - Weiler	5	0	0.00	0.21	0.00	(0.00, 100.0)	5	0.00
St. Barnabas Hospital	5	0	0.00	3.66	0.00	(0.00, 24.43)	2	0.00
<b>Winston B</b>	<b>582</b>	<b>9</b>	<b>1.55</b>	<b>1.13</b>	<b>1.66</b>	<b>(0.76, 3.15)</b>	<b>446</b>	<b>1.77</b>
Albany Med. Ctr	92	2	2.17	1.83	1.45	(0.16, 5.23)	56	1.43
Samaritan Hospital	30	1	3.33	1.03	3.96	(0.05, 22.02)	7	0.00
St. Peter's Hospital	460	6	1.30	1.00	1.59	(0.58, 3.45)	383	1.87
<b>Yadav S</b>	<b>218</b>	<b>5</b>	<b>2.29</b>	<b>2.05</b>	<b>1.37</b>	<b>(0.44, 3.19)</b>	<b>190</b>	<b>0.40</b>
Long Island Jewish MC	3	0	0.00	0.24	0.00	(0.00, 100.0)	3	0.00
NYU Winthrop Hospital	19	0	0.00	0.39	0.00	(0.00, 60.09)	19	0.00
St. Francis Hospital	196	5	2.55	2.23	1.39	(0.45, 3.25)	168	0.42
<b>Yager N</b>	<b>311</b>	<b>9</b>	<b>2.89</b>	<b>1.88</b>	<b>1.88</b>	<b>(0.86, 3.57)</b>	<b>232</b>	<b>1.56</b>
Albany Med. Ctr	309	9	2.91	1.89	1.88	(0.86, 3.58)	231	1.56
Bassett Medical Center	2	0	0.00	0.81	0.00	(0.00, 100.0)	1	0.00
<b>Yarkoni A</b>	<b>384</b>	<b>6</b>	<b>1.56</b>	<b>1.84</b>	<b>1.04</b>	<b>(0.38, 2.26)</b>	<b>307</b>	<b>1.03</b>
Bassett Medical Center	14	1	7.14	1.91	4.55	(0.06, 25.32)	9	0.00
UHS Wilson Med Ctr	370	5	1.35	1.83	0.90	(0.29, 2.10)	298	1.06
<b>Zgheib M</b>	<b>434</b>	<b>3</b>	<b>0.69</b>	<b>0.95</b>	<b>0.89</b>	<b>(0.18, 2.60)</b>	<b>368</b>	<b>1.10</b>
Mount Sinai Hospital	1	0	0.00	1.10	0.00	(0.00, 100.0)	1	0.00
Richmond Univ Med Cntr	15	0	0.00	1.71	0.00	(0.00, 17.44)	2	0.00
Staten Island Univ Hosp	418	3	0.72	0.92	0.95	(0.19, 2.78)	365	1.11
<b>Zisfein J</b>	<b>180</b>	<b>3</b>	<b>1.67</b>	<b>0.78</b>	<b>2.59</b>	<b>(0.52, 7.57)</b>	<b>169</b>	<b>1.50</b>
Mount Sinai South Nassau	108	3	2.78	0.95	3.55	(0.71, 10.38)	97	2.39
NYU Winthrop Hospital	72	0	0.00	0.53	0.00	(0.00, 11.71)	72	0.00

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

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

# CRITERIA USED IN REPORTING SIGNIFICANT RISK FACTORS (2019)

Based on Documentation in Medical Record

Patient Risk Factor	Definitions
<b>Demographic</b>	
Body Mass Index	<p>Body Mass Index (BMI) is a measure of body 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>	
Cardiac Arrest	The patient had an episode of cardiac arrest within 24 hours prior to the start of the PCI.
Non-Refractory Cardiogenic Shock	Non-Refractory Cardiogenic Shock is defined as an episode of systolic blood pressure <90 mmHg and/or cardiac index < 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.
Refractory Cardiogenic Shock	Refractory Cardiogenic Shock is defined as an episode of systolic blood pressure <80 mm Hg and/or cardiac index <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).
<b>Comorbidities</b>	
Cerebrovascular Disease	<p>The patient has cerebrovascular disease, documented by any one of the following:</p> <ul style="list-style-type: none"> <li>• CVA/Stroke - acute episode of focal or global neurological dysfunction caused by brain, spinal cord, or retinal vascular injury as a result of hemorrhage or infarction, where the neurological dysfunction lasts for greater than 24 hours.</li> <li>• TIA, without history of stroke - a transient episode of focal neurological dysfunction caused by brain, spinal cord, or retinal ischemia, without acute infarction, where the neurological dysfunction resolves within 24 hours.</li> <li>• Non-invasive or invasive arterial imaging test demonstrating <math>\geq 80\%</math> stenosis of any of the major extracranial or intracranial vessels to the brain.; or</li> <li>• Previous cervical or cerebral artery revascularization surgery or percutaneous intervention.</li> </ul>

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**Comorbidities, continued**

Chronic Lung Disease	<p>The patient has chronic lung disease, and the severity level according to the following classification:</p> <ul style="list-style-type: none"><li>• Mild - FEV<sub>1</sub> 60% to 75% of predicted, and/or on chronic inhaled or oral bronchodilator therapy.</li><li>• Moderate - FEV<sub>1</sub> 50% to 59% of predicted, and/or on chronic steroid therapy aimed at lung disease.</li><li>• Severe - FEV<sub>1</sub> &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>
Heart Failure, Current	<p>Within 2 weeks prior to the procedure, the patient has a clinical diagnosis of heart failure and symptoms requiring treatment for heart failure. Note: Physician diagnosis of heart failure 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 heart failure, evidence of symptoms, and treatment for heart failure.</p>
Heart Failure, Past	<p>Between 2 weeks and 6 months prior to the procedure, the patient has a clinical diagnosis / past medical history of heart failure and ongoing treatment for heart failure. Note: Physician diagnosis of heart failure 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 heart failure and evidence of treatment for heart failure. Patient's clinical status may be compensated.</p>
High Risk of Bleeding	<p>Patient has any of the following:</p> <ul style="list-style-type: none"><li>• Blood dyscrasia as defined: thrombocytopenia (PLT &lt;100K)</li><li>• History of bleeding diathesis or coagulopathy</li><li>• Baseline Hgb &lt; 11 g/dl (or anemia requiring transfusion during the 4 weeks prior to PCI)</li><li>• Any prior intracerebral bleed</li><li>• Hospital admission for bleeding during the prior 12 months</li><li>• Planned daily NSAID (other than aspirin) or steroids ≥ 30 days after PCI</li><li>• Clinical indication for oral anticoagulation</li></ul>
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 ST-segment Elevation Myocardial Infarction (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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**Valve Assessment**

Aortic Valve Area	The most recent pre-PCI Aortic Valve Area in cm <sup>2</sup> .
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**Previous Cardiac Procedures**

Previous PCI	The patient has undergone one or more prior PCI procedures.
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## Anoxic Brain Injury

Criteria for Anoxic Brain Injury  
Mortality Exclusion

Pre-PCI Criteria

1. AMI: PCI is done for Acute Myocardial Infarction (AMI);
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”.

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## Variables in TAVR model not used in PCI models

Body Surface Area

Body surface area (BSA) is a function of height and weight and increases for larger heights and weights. The statistical formula used to calculate BSA in this report is:

$$BSA (m^2) = 0.0003207 \times H^{0.3} \times W^{(0.7285 - (0.0188 \times \text{LOG}))}$$

Where H is Height in centimeters and W is Weight in grams.

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.

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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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## 2019 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 2019 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 Heart Failure - Current is 1.852. This means that a patient with Heart Failure within two weeks is approximately 1.852 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 Heart Failure who has the same other significant risk factors. The risk factors Peripheral Vascular Disease, Left Main Disease, and Three Vessels Diseased are also interpreted in the same way.

With regard to age, the odds ratio roughly represents the number of times more likely to die a patient who is over age 55 is than another patient who is one year younger, all other significant risk factors being the same. Thus, a patient undergoing PCI who is 56 years old has approximately 1.060 times the chance of dying in the hospital or within 30 days that a 55 year-old patient has, all other risk factors being the same. All patients aged fifty-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 and is considered an indication of nutritional status of the body. In this model, BMI is divided into three groups representing various levels of BMI. The reference group is patients with BMI greater than or equal to 18.5 kg/m<sup>2</sup>. This means that odds of death are higher for patients with lower BMI, when all other significant risk factors are the same.

In this model, Hemodynamic status is represented by three groups: Patients with Non-Refractory Cardiogenic shock (with or without cardiac arrest); Patients with Cardiac Arrest that do not have Cardiogenic Shock; and Patients who have neither Non-Refractory Cardiogenic shock nor Cardiac Arrest. The last group is the reference category and the odds ratio for the other groups is compared to patients in this group.

Ejection Fraction, which is the percentage of blood in the heart's left ventricle that is expelled when it contracts (with more denoting a healthier heart), is subdivided into five ranges (less than 20 percent, 20 percent to 29 percent, 30 percent to 39 percent, 40 percent to 49 percent, and 50 percent or more). The last range is referred to as the reference category. This means that the odds ratio that appears for the other Ejection Fraction categories in the table is relative to patients with an ejection fraction of 50 percent or more. Thus, a PCI patient with an ejection fraction of less than 20 percent is about 6.010 times as likely to die in the hospital or within 30 days as a patient with an ejection fraction of 50 percent or higher, all other significant risk factors being the same.

Previous MI is subdivided into eight ranges. Six categories separate cases with MI within 24 hours by type of MI (STEMI or NSTEMI) and number of hours between the MI and the PCI. There are also groups for any MI (STEMI or NSTEMI) from 1 to 20 days prior to the procedure 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: Mild or None, Moderate and Severe. The odds ratios for patients with each of the second two levels are compared to patients

with no chronic lung disease or only 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 whose last pre-PCI creatinine value was 1.5 mg/dL or less.

Aortic Valve Area is divided into three ranges: 0.1 - 1.0 cm<sup>2</sup>, 1.1 - 2.0 cm<sup>2</sup> and greater than 2.0 cm<sup>2</sup>. Cases with no aortic valve area reported are grouped with the reference category which is aortic valve area greater than 2.0 cm<sup>2</sup>.

# Appendix 1

## Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2019 (All Cases)

Patient Risk Factors	Prevalence (%)	Regression Coefficient	P value	Odds Ratio
<b>Demographic</b>				
Age: Number of years > 55	–	0.0584	<.0001	1.060
Body Mass Index (BMI)				
< 16.5 kg/m <sup>2</sup>	0.18	1.8271	<.0001	6.216
≥ 16.5 and < 18.5 kg/m <sup>2</sup>	0.64	0.6704	0.0274	1.955
≥ 18.5 kg/m <sup>2</sup>	99.18	– Reference –		1.000
<b>Hemodynamic Status</b>				
No Non-Refractory Shock and No Cardiac Arrest	98.62	– Reference –		1.000
Cardiac Arrest without Shock	0.88	0.8988	<.0001	2.457
Non-Refractory Shock with or without Arrest	0.50	2.1018	<.0001	8.181
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 50% or greater	73.30	– Reference –		1.000
Ejection Fraction less than 20%	0.82	1.7934	<.0001	6.010
Ejection Fraction 20-29%	3.97	1.2256	<.0001	3.406
Ejection Fraction 30-39%	8.01	0.7217	<.0001	2.058
Ejection Fraction 40-49%	13.89	0.2544	0.0419	1.290
Pre-Procedural MI				
No MI within 20 Days	66.46	– Reference –		1.000
MI with ST Elevation within 24 hours				
MI < 6 hrs	9.18	2.0268	<.0001	7.590
MI 6-11 hrs	1.48	2.2324	<.0001	9.322
MI 12 – 23 hrs	0.68	2.6151	<.0001	13.668
MI without ST Elevation within 24 hours				
MI < 6 hrs	0.78	1.8876	<.0001	6.603
MI 6-11 hrs	1.60	1.1261	0.0006	3.084
MI 12 – 23 hrs	3.33	1.3218	<.0001	3.750
MI 1-20 days	16.48	1.0574	<.0001	2.879
<b>Comorbidities</b>				
Chronic Lung Disease				
None or Mild	98.74	– Reference –		1.000
Moderate	0.95	1.0794	<.0001	2.943
Severe	0.31	1.3706	<.0001	3.938
Heart Failure, Current (within 2 weeks)	8.20	0.6165	<.0001	1.852
Peripheral Vascular Disease	9.98	0.3750	0.0012	1.455
Renal Failure				
No Renal Dialysis				
Creatinine ≤1.5 mg/dL	89.47	– Reference –		1.000
Creatinine > 1.5 and ≤ 2.0 mg/dL	5.04	0.3145	0.0313	1.370
Creatinine > 2.0 and ≤ 2.5 mg/dL	1.14	0.6902	0.0055	1.994
Creatinine > 2.5 mg/dL	1.05	1.0599	<.0001	2.886
Renal Dialysis	3.30	1.0351	<.0001	2.815
<b>Vessel Diseased</b>				
Left Main Disease	4.97	0.4448	0.0010	1.560
Three Vessels Diseased	12.92	0.2925	0.0051	1.340
<b>Valve Assessment</b>				
Aortic Valve Area				
>2.0 cm <sup>2</sup> or missing	93.84	– Reference –		1.000
0.1-1.0 cm <sup>2</sup>	2.02	0.8251	<.0001	2.282
1.1-2.0 cm <sup>2</sup>	4.15	0.3743	0.0129	1.454

Intercept = -7.0919  
C Statistic = 0.866

## Appendix 2

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### 2019 Risk Factors For In-Hospital/30-Day Mortality For Non-Emergency PCI

Appendix 2 contains the significant pre-procedural risk factors for 2019 New York State PCI patients who were not emergency patients (were not hemodynamically unstable and who did not suffer a heart attack or cardiac arrest within 24 hours prior to the PCI being performed).

The interpretation for Age, Body Mass Index, Ejection Fraction, Chronic Lung Disease, Heart Failure (Current), Three Vessels Diseased and Aortic Valve Area are the same as presented in Appendix 1.

Renal Failure and Previous MI are also interpreted in the same way as Appendix 1, although the number of categories for each of these risks differs in this model. Malignant Ventricular Arrhythmia is interpreted in the same way as Heart Failure in Appendix 1.



## Appendix 2

### Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2019 (Non-Emergency Cases)

Patient Risk Factors	Prevalence (%)	Regression Coefficient	P value	Odds Ratio
<b>Demographic</b>				
Age: number of years > 55	–	0.0529	<.0001	1.054
Body Mass Index (BMI)				
< 16.5 kg/m <sup>2</sup>	0.19	2.0339	<.0001	7.644
≥ 16.5 and < 18.5 kg/m <sup>2</sup>	0.66	0.8292	0.0235	2.291
≥ 18.5 kg/m <sup>2</sup>	99.15	— Reference —		1.000
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 50% or greater	77.51	— Reference —		1.000
Ejection Fraction less than 20%	0.72	1.7572	<.0001	5.796
Ejection Fraction 20-29%	3.42	1.0529	<.0001	2.866
Ejection Fraction 30-39%	6.69	0.8112	<.0001	2.251
Ejection Fraction 40-49%	11.66	0.6477	<.0001	1.911
Pre-Procedural MI				
No MI within 14 Days	80.77	— Reference —		1.000
MI 1-7 Days	17.87	1.0659	<.0001	2.903
MI 8-14 Days	1.37	1.0423	<.0001	2.836
<b>Comorbidities</b>				
Chronic Lung Disease				
None or Mild	98.70	— Reference —		1.000
Moderate	0.98	0.7676	0.0234	2.155
Severe	0.32	1.0715	0.0159	2.920
Heart Failure, Current (within 2 wks)	8.59	0.7117	<.0001	2.038
Malignant Ventricular Arrhythmia	0.37	1.1220	0.0112	3.071
Renal Failure				
No Renal Dialysis				
Creatinine ≤ 2.0 mg/dL	94.09	— Reference —		1.000
Creatinine > 2.0 and ≤ 2.5 mg/dL	1.19	0.7058	0.0241	2.026
Creatinine > 2.5 mg/dL	1.05	0.8926	0.0034	2.441
Renal Dialysis	3.68	0.9730	<.0001	2.646
<b>Vessels</b>				
Three Vessels Diseased	12.84	0.4092	0.0027	1.506
<b>Valve Assessment</b>				
Aortic Valve Area				
Missing or >2.0 cm <sup>2</sup>	93.52	— Reference —		1.000
0.1-1.0 cm <sup>2</sup>	2.31	0.8291	<.0001	2.291
1.1-2.0 cm <sup>2</sup>	4.17	0.4146	0.0307	1.514

Intercept = -7.1953

C Statistic = 0.824

## Appendix 3

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### 2019 Risk Factors For 30-Day Readmission For PCI

The significant pre-procedural risk factors for 30-day readmissions following PCI in 2019 are presented in the table that follows. The interpretation for age is the same as described in Appendix 1 and 2 except in this model, all patients age 65 and younger have the same risk of readmission if their other significant risk factors are identical. For Ejection Fraction, Previous MI, Chronic Lung Disease, Renal Failure, and Aortic Valve Area, the interpretation is generally the same as Appendix 1 or 2, but the groups may be constructed differently in this model.

The interpretation for Female Sex at Birth, Body Mass Index < 16.5 kg/m<sup>2</sup>, Diabetes with Insulin Treatment, High Risk of Bleeding, Peripheral Vascular Disease, and Stroke or TIA are similar to that described for Heart Failure-Current in Appendix 1.

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

In this model, Number of Vessels Diseased is split into three groups: Fewer than Two Vessels Diseased, Two Vessels Diseased; and Three Vessels Diseased. The odds ratio for two and three vessels diseased are relative to patients with fewer than two vessels diseased.

## Appendix 3

### Multivariate Risk-Factor Equation for 30-Day Readmission Following PCI, 2019

Patient Risk Factors	Prevalence (%)	Regression Coefficient	P value	Odds Ratio
<b>Demographic</b>				
Age: Number of years greater than 65	–	0.0211	<.0001	1.021
Female Sex at Birth	29.23	0.2525	<.0001	1.287
Body Mass Index < 16.5 kg/m <sup>2</sup>	0.17	0.6514	0.0216	1.918
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 40% or greater	87.57	— Reference —		1.000
Ejection Fraction less than 30%	4.52	0.2565	0.0002	1.292
Ejection Fraction 30-39%	7.91	0.1703	0.0020	1.186
Pre-Procedural MI				
No MI	49.92	— Reference —		1.000
MI with ST Elevation within 24 hours	11.29	0.5064	<.0001	1.659
MI without ST Elevation within 24 hours	5.92	0.2223	0.0029	1.249
MI 1-7 Days	15.26	0.4927	<.0001	1.637
MI 8-20 Days	1.15	0.3553	0.0024	1.427
MI >20 Days	16.46	0.1054	0.0293	1.111
<b>Comorbidities</b>				
Cerebrovascular Disease: Stroke or TIA	8.77	0.3137	<.0001	1.368
Chronic Lung Disease				
None	93.44	— Reference —		1.000
Mild	5.29	0.3028	<.0001	1.354
Moderate	0.96	0.7635	<.0001	2.146
Severe	0.31	0.7889	<.0001	2.201
Diabetes with Insulin Treatment	15.78	0.3404	<.0001	1.405
Heart Failure				
No Heart Failure within 6 months	86.05	— Reference —		1.000
Current (within 2 weeks)	8.07	0.4084	<.0001	1.504
Past but not Current (2 wks - 6 mon)	5.89	0.2913	<.0001	1.338
High Risk of Bleeding	12.52	0.3933	<.0001	1.482
Peripheral Vascular Disease	9.86	0.2586	<.0001	1.295
Renal Failure				
No Renal Dialysis				
Creatinine < 1.2 mg/dL	71.17	— Reference —		1.000
Creatinine ≥ 1.2 and ≤ 2.5 mg/dL	24.63	0.1583	<.0001	1.171
Creatinine >2.5 mg/dL	0.99	0.5977	<.0001	1.818
Renal Dialysis	3.21	0.9971	<.0001	2.710
<b>Vessels Diseased</b>				
Number of Vessels Diseased				
Fewer than Two Vessels Diseased	55.79	— Reference —		1.000
Two Vessels Diseased	31.34	0.1298	0.0004	1.139
Three Vessels Diseased	12.87	0.2257	<.0001	1.253
<b>Valve Assessment</b>				
Aortic Valve Area				
≥ 3.0 cm <sup>2</sup> or missing	89.82	— Reference —		1.000
0.1-1.0 cm <sup>2</sup>	2.03	0.4002	<.0001	1.492
1.1-2.9 cm <sup>2</sup>	8.15	0.1769	0.0010	1.193

Intercept = -3.2730

C Statistic = 0.683

## Appendix 4

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### **2017-2019 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 2017-2019 time period are presented in the table that follows. The interpretation of this table is similar to the interpretation of Appendices 1-3. Most variables are interpreted in the same way as previously described although in some cases the levels of the variable are divided differently.

One or More Previous PCI and Cerebrovascular Disease - are interpreted in the same way as Heart Failure - Current in Appendix 1.

# Appendix 4

## Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2017-2019 (All Cases)

Patient Risk Factors	Prevalence (%)	Regression Coefficient	P value	Odds Ratio
<b>Demographic</b>				
Age: Number of years greater than 50	–	0.0504	<.0001	1.052
Female Sex at Birth	28.98	0.2372	<.0001	1.268
Body Mass Index (BMI)				
< 16.5 kg/m <sup>2</sup>	0.19	1.2691	<.0001	3.557
≥ 16.5 and < 18.5 kg/m <sup>2</sup>	0.66	0.6460	0.0002	1.908
≥ 18.5 and ≤ 40.0 kg/m <sup>2</sup>	93.53	— Reference —	—	1.000
> 40.0 kg/m <sup>2</sup>	5.62	0.3506	0.0009	1.420
<b>Hemodynamic Status</b>				
No Non-Refractory Shock and No Cardiac Arrest	98.72	— Reference —	—	1.000
Cardiac Arrest without Shock	0.77	0.8697	<.0001	2.386
Non-Refractory Shock with or without Arrest	0.51	1.9120	<.0001	6.767
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 50% or greater	72.66	— Reference —	—	1.000
Ejection Fraction less than 20%	0.87	1.5793	<.0001	4.851
Ejection Fraction 20-29%	4.07	1.0984	<.0001	2.999
Ejection Fraction 30-39%	8.01	0.7120	<.0001	2.038
Ejection Fraction 40-49%	14.39	0.2965	<.0001	1.345
Pre-Procedural MI				
No Previous MI	48.27	— Reference —	—	1.000
MI with ST Elevation				
MI < 6 hrs	9.33	1.9635	<.0001	7.124
MI 6-11 hrs	1.51	2.1712	<.0001	8.769
MI 12 – 23 hrs	0.78	2.2113	<.0001	9.128
MI without ST Elevation				
MI < 6 hrs	0.82	1.7057	<.0001	5.505
MI 6-11 hrs	1.54	1.4490	<.0001	4.259
MI 12 –23hrs	3.39	1.1492	<.0001	3.156
MI 1-7 Days	15.44	1.1663	<.0001	3.210
MI 8-14 Days	1.17	1.0173	<.0001	2.766
MI 15-20 Days	0.36	0.8565	0.0058	2.355
MI > 20 Days	17.39	0.2477	0.0141	1.281
<b>Comorbidities</b>				
Cerebrovascular Disease (not TIA only)	8.19	0.1615	0.0255	1.175
Chronic Lung Disease				
None	93.65	— Reference —	—	1.000
Mild	5.09	0.3783	<.0001	1.460
Moderate	0.87	0.6563	<.0001	1.928
Severe	0.39	1.0715	<.0001	2.920
Heart Failure, Current (within 2 weeks)	8.10	0.6201	<.0001	1.859
Malignant Ventricular Arrhythmia	0.64	0.4362	0.0050	1.547
Peripheral Vascular Disease	9.57	0.4131	<.0001	1.511
Renal Failure				
No Renal Dialysis				
Creatinine < 1.2 mg/dL	70.55	— Reference —	—	1.000
Creatinine ≥ 1.2 and ≤ 1.5 mg/dL	18.91	0.2059	0.0012	1.229
Creatinine > 1.5 and ≤ 2.0 mg/dL	5.07	0.6944	<.0001	2.003
Creatinine > 2.0 and ≤ 2.5 mg/dL	1.12	0.8441	<.0001	2.326
Creatinine > 2.5 and ≤ 3.0 mg/dL	0.46	1.1595	<.0001	3.188
Creatinine > 3.0 mg/dL	0.64	1.3176	<.0001	3.735
Renal Dialysis	3.25	1.1808	<.0001	3.257
<b>Vessels</b>				
Left Main Disease	4.77	0.4307	<.0001	1.538
Number of Vessels Diseased				
Fewer than Two Vessels Diseased	55.50	— Reference —	—	1.000
Two Vessels Diseased	31.65	0.1422	0.0112	1.153
Three Vessels Diseased	12.86	0.4016	<.0001	1.494
<b>Valve Assessment</b>				
Aortic Valve Area				
>2.0 cm <sup>2</sup> or missing	93.98	— Reference —	—	1.000
0.1-1.0 cm <sup>2</sup>	1.99	0.6925	<.0001	1.999
1.1-2.0 cm <sup>2</sup>	4.03	0.2099	0.0193	1.234
<b>Previous Procedures</b>				
One or More Previous PCI	44.20	-0.3393	<.0001	0.712

Intercept = -7.2967

C Statistic = 0.869

## Appendix 5

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### **2017-2019 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 2017-2019 time period are presented in the Appendix 5 table that follows. 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, 2017-2019 (Non-Emergency Cases)

Patient Risk Factors	Prevalence (%)	Regression Coefficient	P value	Odds Ratio
<b>Demographic</b>				
Age: Number of years greater than 50	–	0.0462	<.0001	1.047
Body Mass Index (BMI)				
< 16.5 kg/m <sup>2</sup>	0.19	1.6162	<.0001	5.034
≥ 16.5 and < 18.5 kg/m <sup>2</sup>	0.66	0.8753	<.0001	2.400
≥ 18.5 and < 25.0 kg/m <sup>2</sup>	20.57	0.2376	0.0011	1.268
≥ 25.0 and ≤ 40.0 kg/m <sup>2</sup>	72.87	— Reference —		1.000
> 40.0 kg/m <sup>2</sup>	5.71	0.4297	0.0018	1.537
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 50% or greater	77.03	— Reference —		1.000
Ejection Fraction less than 20%	0.75	1.3049	<.0001	3.687
Ejection Fraction 20-29%	3.47	0.9158	<.0001	2.499
Ejection Fraction 30-39%	6.65	0.7029	<.0001	2.020
Ejection Fraction 40-49%	12.10	0.4357	<.0001	1.546
Pre-Procedural MI				
No Previous MI	58.52	— Reference —		1.000
MI 1-14 Days	19.97	1.1783	<.0001	3.249
MI 15-20 Days	0.43	0.8801	0.0062	2.411
MI > 20 Days	21.08	0.2409	0.0213	1.272
<b>Comorbidities</b>				
Cerebrovascular Disease (not TIA only)	8.80	0.2814	0.0011	1.325
Chronic Lung Disease				
None	93.29	— Reference —		1.000
Mild	5.37	0.3121	0.0041	1.366
Moderate	0.91	0.6903	0.0003	1.994
Severe	0.43	1.0165	<.0001	2.764
Heart Failure, Current (within 2 weeks)	8.47	0.6986	<.0001	2.011
Malignant Ventricular Arrhythmia	0.47	0.8752	0.0001	2.399
Peripheral Vascular Disease	10.52	0.3183	<.0001	1.375
Renal Failure				
No Renal Dialysis				
Creatinine ≤ 1.5 mg/dL	88.92	— Reference —		1.000
Creatinine >1.5 and ≤ 2.0 mg/dL	5.18	0.5422	<.0001	1.720
Creatinine > 2.0 and ≤ 2.5 mg/dL	1.14	0.5986	0.0016	1.820
Creatinine > 2.5 and ≤ 3.0 mg/dL	0.47	0.9288	0.0001	2.532
Creatinine > 3.0 mg/dL	0.65	1.1350	<.0001	3.111
Renal Dialysis	3.64	1.0004	<.0001	2.719
<b>Vessels Diseased</b>				
Left Main Disease	5.07	0.4971	<.0001	1.644
Three Vessels Diseased	12.75	0.3105	<.0001	1.364
<b>Valve Assessment</b>				
Aortic Valve Area				
>2.0 cm <sup>2</sup> or missing	93.62	— Reference —		1.000
0.1-1.0 cm <sup>2</sup>	2.28	0.7589	<.0001	2.136
1.1-2.0 cm <sup>2</sup>	4.10	0.2453	0.0271	1.278
<b>Previous Procedures</b>				
One or More Previous PCI	48.86	-0.3439	<.0001	0.709

Intercept = -7.0849

C Statistic = 0.846



## Appendix 6

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### **2017-2019 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 2017-2019 time period are presented in the Appendix 6 table that follows. The interpretation of this table is similar to the interpretation of Appendices 1-5. The Sum of Risk Factors Squared term is merely the square of the number of risk factors in Appendix 6 that a patient has (not counting age) and is used to improve the ability of the model to predict mortality.

## Appendix 6

### Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI, 2017-2019 (Emergency Cases)

Patient Risk Factors	Prevalence (%)	Regression Coefficient	P value	Odds Ratio
<b>Demographic</b>				
Age: Number of years greater than 50	–	0.0509	<.0001	1.052
Female Sex at Birth	27.40	0.9848	<.0001	2.677
<b>Hemodynamic Status</b>				
No Non-Refractory Shock and No Cardiac Arrest	92.75	— Reference —		1.000
Cardiac Arrest without Shock	4.36	1.5199	<.0001	4.572
Non-Refractory Shock with or without Arrest	2.88	2.4825	<.0001	11.972
<b>Ventricular Function</b>				
Ejection Fraction				
Ejection Fraction 40% or greater	77.35	— Reference —		1.000
Ejection Fraction less than 20%	1.42	2.3304	<.0001	10.282
Ejection Fraction 20-29%	6.88	1.7788	<.0001	5.923
Ejection Fraction 30-39%	14.34	1.2537	<.0001	3.503
Pre-Procedural MI				
MI with ST Elevation within 24 hrs	65.97	1.2891	<.0001	3.629
<b>Comorbidities</b>				
Chronic Lung Disease				
None	95.31	— Reference —		1.000
Mild or Moderate	4.46	1.1839	<.0001	3.267
Severe	0.24	1.8411	<.0001	6.303
Heart Failure, Current (within 2 weeks)	6.36	1.3073	<.0001	3.696
Peripheral Vascular Disease	5.13	1.3237	<.0001	3.757
Renal Failure				
No Renal Dialysis				
Creatinine < 1.2 mg/dL	72.64	— Reference —		1.000
Creatinine ≥ 1.2 and ≤ 1.5 mg/dL	19.35	0.9345	<.0001	2.546
Creatinine > 1.5 and ≤ 2.0 mg/dL	4.54	1.4735	<.0001	4.364
Creatinine > 2.0 and ≤ 2.5 mg/dL	1.03	1.6475	<.0001	5.194
Creatinine >2.5 mg/dL	1.02	1.9940	<.0001	7.345
Renal Dialysis	1.42	1.9091	<.0001	6.747
<b>Vessels Diseased</b>				
Number of Vessels Diseased				
Fewer than Two Vessels Diseased	54.74	— Reference —		1.000
Two Vessels Diseased	31.91	0.7920	<.0001	2.208
Three Vessels Diseased	13.35	1.0550	<.0001	2.872
<b>Valve Assessment</b>				
Aortic Valve Area 0.1-1.0 cm <sup>2</sup>	0.66	1.2966	<.0001	3.657
<b>Sum of Risk Factors Squared</b>	–	-0.0921	<.0001	–

Intercept = -6.9302

C Statistic = 0.855

## Appendix 7

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### Risk Factors for TAVR In-Hospital/30-Day Mortality in New York State 2017-2019

Most of the significant pre-procedural risk factors for in-hospital/30-day mortality following TAVR in the 2017-2019 time period presented in the table that follows have been previously described.

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 this statistical model reflects the fact that patients with very high or 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.

Extensive Aortic Atherosclerosis is interpreted in the same way as Heart Failure-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 2017-2019.

Patient Risk Factors	Prevalence (%)	Regression Coefficient	P value	Odds Ratio
<b>Demographic</b>				
Age: Number of years greater than 70	–	0.0349	<.0001	1.035
Female Sex at Birth	47.87	0.4438	.0008	1.559
Body Surface Area in 0.1m <sup>2</sup>	–	-0.4864	.0029	–
Body Surface Area, squared in 0.01m <sup>4</sup>	–	0.0110	.0073	–
<b>Ventricular Function</b>				
Ejection Fraction < 30%	4.77	0.5765	.0035	1.780
<b>Hemodynamic State</b>				
Non-Refractory Shock	0.12	2.5004	<.0001	12.188
<b>Comorbidities</b>				
Cerebrovascular Disease (not TIA only)	14.81	0.4297	.0016	1.537
Chronic Lung Disease, Moderate or Severe	11.04	0.5486	.0003	1.731
Extensive Aortic Atherosclerosis	2.12	0.6858	.0089	1.985
<b>Renal Failure</b>				
No Renal Failure	69.25	– Reference –		1.000
Creatinine 1.3 - 1.5 mg/dl	14.38	0.6106	.0001	1.842
Creatinine 1.6 - 2.0 mg/dl	8.32	0.8286	<.0001	2.290
Creatinine >2.0 mg/dl	3.83	1.3777	<.0001	3.966
Renal Dialysis	4.22	1.3866	<.0001	4.001
<b>Vessels Diseased</b>				
No Coronary Artery Disease	74.15	– Reference –		1.000
One Vessel Diseased	17.17	0.4328	.0017	1.542
Two or More Vessels Diseased	8.68	0.4482	.0098	1.565

Intercept = -0.0066

C Statistic = 0.710

# NEW YORK STATE PERCUTANEOUS CORONARY INTERVENTION CENTERS

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**Albany Medical Center**

47 New Scotland Avenue  
Albany, New York 12208

**Arnot Ogden Medical Center**

600 Roe Avenue  
Elmira, New York 14905

**Bassett Medical Center**

1 Atwell Road  
Cooperstown, New York 13326

**Bellevue Hospital Center**

462 1st Avenue  
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

**The Brooklyn Hospital Center - Downtown\***

121 DeKalb Avenue  
Brooklyn, New York 11201

**Buffalo General Medical Center**

100 High Street  
Buffalo, New York 14203

**Cayuga Medical Center\***

101 Dates Drive  
Ithaca, New York 14850

**Coney Island Hospital\*+**

2601 Ocean Parkway  
Brooklyn, New York 11235

**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

**Garnet Health Medical Center\***

707 East Main Street  
Middletown, New York 10940

**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

**Health Alliance Hospital****Broadway Campus\*+**

396 Broadway  
Kingston, New York 12401

**Huntington Hospital\***

270 Park Avenue  
Huntington, New York 11743

**Jacobi Medical Center\*+**

Pelham Parkway & Eastchester Road  
Bronx, New York 10461

**Jamaica Hospital Medical Center\***

89th Avenue and Van Wyck Expressway  
Jamaica, New York 11418

**John T. Mather Memorial Hospital\*+**

75 North Country Road  
Port Jefferson, New York 11777

**Lenox Hill Hospital**

100 East 77th Street  
New York, New York 10021

**Long Island Community Hospital at NYU****Langone Health\***

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 10th Avenue  
Brooklyn, New York 11219

**Mercy Hospital of Buffalo**

565 Abbott Road  
Buffalo, New York 14220

**Mercy Medical Center\*+**

1000 North Village Avenue  
Rockville Centre, New York 11570

**Montefiore Medical Center @ Henry & Lucy Moses Division**  
111 East 210th Street  
Bronx, New York 10467

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

**Montefiore Nyack Hospital\*+**  
160 North Midland Avenue  
Nyack, New York 10960

**Montefiore St. Luke's\***  
70 Dubois Street  
Newburgh, New York 12550

**Mount Sinai Beth Israel\***  
1st Avenue at 16th Street  
New York, New York 10003

**Mount Sinai Hospital**  
One Gustave L. Levy Place  
New York, New York 10029

**Mount Sinai Morningside**  
1111 Amsterdam Avenue  
New York, New York 10025

**Mount Sinai South Nassau\***  
One Healthy Way  
Oceanside, New York 11572

**Mount Sinai - Queens\*+**  
25-10 30th Avenue  
Long Island City, NY 11102

**NY Presbyterian Brooklyn Methodist Hospital**  
506 6th Street  
Brooklyn, New York 11215

**NY Presbyterian Columbia Presbyterian Center**  
630 W 168th Street  
New York, New York 10032

**NY Presbyterian Hudson Valley Hospital\*+**  
1980 Crompond Road  
Cortlandt Manor, NY 10567

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

**NY Presbyterian Westchester\***  
55 Palmer Avenue  
Bronxville, New York 10708

**NY Presbyterian Weill Cornell College**  
525 East 68th Street  
New York, New York 10065

**NYU Langone Hospitals**  
550 1st Avenue  
New York, New York 10016

**NYU Langone Hospital - Brooklyn\***  
150 55th Street  
Brooklyn, New York 11220

**NYU Langone Hospital - Winthrop**  
259 First Street  
Mineola, New York 11501

**Niagara Falls Memorial Medical Center\***  
621 10th Street  
Niagara Falls, New York 14302

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

**Northern Westchester Hospital\*+**  
400 East Main Street  
Mount Kisco, New York 10549

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

**Peconic Bay Medical Center\***  
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 Shore University 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 13501

**St. Francis Hospital & Heart Center**

100 Port Washington Boulevard  
Roslyn, New York 11576

**St. Joseph Hospital\*+**

4295 Hempstead Turnpike  
Bethpage, NY 11714

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

301 Prospect Avenue  
Syracuse, New York 13203

**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

**Stony Brook Southampton Hospital\***

240 Meeting House Lane  
Southampton, New York 11968

**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 Downstate\***

450 Clarkson Road  
Brooklyn, New York 11203

**University Hospital at Stony Brook**

33 Research Way  
Stony Brook, New York 11794-8410

**Upstate University Hospital**

**SUNY Health Science Center**

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**

100 Woods Rd.  
Valhalla, New York 10595

**White Plains Hospital**

41 East Post Road  
White Plains, New York 10601

**Wyckoff Heights Medical Center\*+**

374 Stockholm Street  
Brooklyn, New York 11237

\* Hospital performs PCI without cardiac surgery on-site

+ Hospital began performing PCI after November 30, 2019.

Additional copies of this report may be obtained through the Department of Health web site at <http://www.nyhealth.gov>

or by writing to:

Cardiac  
Box 2000  
New York State Department of Health  
Albany, New York 12220



# REVISION NOTICE (MAY 2023)

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Two records in the 2018 dataset were initially attributed to the incorrect physician. The physician attribution has been corrected in this revised report (page 32 and page 48). The change had no meaningful impact on the reported results for either physician.

