

**PERCUTANEOUS
CORONARY
INTERVENTIONS
(PCI)
in
New York State
*2004-2006***

**New York State Department of Health
July 2009**

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MESSAGE FROM COMMISSIONER DAINES

July 2009

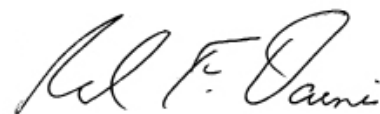
I am pleased to provide the information contained in this booklet for use by health care providers, patients and families of patients who are considering treatment options for cardiovascular disease. The report provides data on risk factors associated with in-hospital/30-day mortality following percutaneous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

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

I encourage doctors to discuss this information with their patients and colleagues as they develop treatment plans. While these statistics are an important tool in making informed health care choices, doctors and patients must make individual treatment plans together after careful consideration of all pertinent factors. It is also important to keep in mind that the information in this booklet does not include data after 2006. Important changes may have taken place in some hospitals since that time.

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

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



Richard F. Daines, M.D.
Commissioner

INTRODUCTION

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

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

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

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

The analyses contained in this report are based on the information collected on each of the 167,752 patients who underwent PCI in NYS hospitals and were discharged between January 1, 2004, and December 31, 2006. The number of PCI cases per year has increased during that period from 53,659 in 2004 to 57,944 in 2006. Analyses of risk-adjusted mortality rates and associated risk factors are provided for 2006 and for the three-year period from 2004 through 2006. Analyses of all cases, non-emergency cases (which represent the majority of procedures) and emergency cases are included.

DEPARTMENT OF HEALTH PROGRAM

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

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

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

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

PATIENT POPULATION

This report is based on data for patients discharged between January 1, 2004, and December 31, 2006, provided by all 51 non-federal hospitals in NYS where PCI is performed. Beginning with patients discharged in 2006, the Department of Health, with the advice of the Cardiac Advisory Committee, began a trial period of excluding any patients meeting the NYS Cardiac Data System definition of pre-operative cardiogenic shock from publicly-released reports and analyses. Cardiogenic shock is a condition associated with severe hypotension (very low blood pressure); the technical definition used in this report can be found on page 43. Patients in cardiogenic shock are extremely high-risk, but for some, PCI may be their best chance for survival. Furthermore, the magnitude of the risk is not always easily determined using registry data. These cases were excluded after careful deliberation and input from NYS providers and others in an effort to assure that physicians could accept these cases where appropriate without concern over a detrimental impact on their reported outcomes.

Cases with shock were also excluded from the 2004 and 2005 data in the three-year analyses. This was done to allow for accurate risk assessments across the entire time period. In total, 299 cases with cardiogenic shock were removed from 2004-2006 data. This accounts for 0.18 percent of all PCI cases in the three years.

In addition, thirty-day follow-up for patients residing outside NYS is only available through December 31, 2006. Therefore, 169 records corresponding to patients residing outside NYS undergoing PCI in December of 2006 were excluded from analysis because these patients could not be followed for 30 days.

In NYS, PCI is limited to centers with cardiac surgery on-site. However, beginning in 2000, a process was put in place to allow time-limited waivers to this policy for centers participating in a special study for heart attack patients. After extensive training and review, hospitals meeting specific conditions may now be allowed to perform PCI on patients with an ST segment elevation myocardial infarction (a specific kind of heart attack also known as STEMI). One hospital began performing PCI under these conditions in 2000, nine were added between 2001 and 2005, and one more began in 2006. Seven of these hospitals have now also been granted permission to perform PCI on patients not having a STEMI. This project began in 2006, with four hospitals performing Primary and Elective PCI without cardiac surgery on site. The four hospitals appearing in this report are: Elmhurst Hospital Center, Glens Falls Hospital, South Nassau Communities Hospital and Southside Hospital. All hospitals currently performing Primary and/or Elective PCI without cardiac surgery on site are listed on the final page of this report.

RISK ADJUSTMENT FOR ASSESSING PROVIDER PERFORMANCE

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

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

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

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

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

Assessing Patient Risk

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

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

Predicting Patient Mortality Rates for Providers

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

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

Computing the Risk-Adjusted Mortality Rate

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

To get the RAMR, the OMR is first divided by the provider's EMR. If the resulting ratio is larger than one, the provider has a higher mortality rate than expected on the basis of its patient mix; if it is smaller than one, the provider has a lower mortality rate than expected from its patient mix. The ratio is then multiplied by the overall statewide rate (0.87 percent in-hospital/30-day in 2006) to obtain the provider's RAMR.

Interpreting the Risk-Adjusted Mortality Rate

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

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

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

How This Initiative Contributes to Quality Improvement

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

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

2006 HOSPITAL RISK-ADJUSTED MORTALITY FOR PCI

Table 1 and Figures 1 and 2 present the PCI mortality results for the 51 hospitals performing PCI in NYS in 2006. The table contains, for each hospital, the number of PCIs resulting in 2006 discharges, the number of in-hospital/30-day deaths, the OMR, the EMR based on the statistical model presented in Appendix 1, the RAMR and a 95 percent confidence interval for the RAMR. It also contains each hospital's volume of cases and RAMR for non-emergency patients. Emergency patients are defined to be patients in a state of hemodynamic instability (very low blood pressure), or patients who experienced a heart attack within 24 hours prior to undergoing PCI. The hospital RAMRs for non-emergency PCI patients are provided because many studies are confined to this group of patients and because these patients comprise the majority of all PCI patients (89.06 percent in 2006).

The overall in-hospital/30-day OMR for the 57,944 PCIs included in this report was 0.87 percent. Observed mortality rates ranged from 0.00 percent to 6.90 percent. The range in EMRs, which measure patient severity of illness, was between 0.54 percent and 4.15 percent. The RAMRs, which measure hospital performance, range from 0.00 percent to 3.89 percent. Based on confidence intervals for RAMR, two hospitals (Crouse Hospital in Syracuse and St. Vincent Catholic Medical Centers – St. Vincent's in Manhattan) had RAMRs that were significantly higher than the statewide average. One hospital (Ellis Hospital in Schenectady) had a RAMR 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 0.63 percent. The range of RAMRs was from 0.00 percent to 1.88 percent. Two hospitals (Crouse Hospital in Syracuse and St. Vincent Catholic Medical Centers – St. Vincent's in Manhattan) had RAMRs that were significantly higher than the statewide rate. One hospital (New York Hospital Medical Center of Queens in Flushing) 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. 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 2006 PCI analysis is based on in-hospital/30-day mortality and excludes shock cases, the associated mortality rates cannot be compared directly to some previous NYS publications which are based on only in-hospital mortality and include shock cases.

The observed in-hospital mortality rate for 2006 PCI discharges was 0.49 percent for the 57,944 patients included in Table 1. For the Non-Emergency analysis, there were 51,606 patients with an in-hospital mortality rate of 0.28 percent.

2004-2006 HOSPITAL DATA FOR PCI

Table 2 provides the number of PCIs, the in-hospital/30-day OMR and RAMR for 2004-2006 for each of three types of PCI patients in the 51 hospitals performing PCI during the time period. The three types of patients are: all patients, non-emergency patients and emergency patients (patients in a state of hemodynamic instability [very low blood pressure], or patients who experienced a heart attack within 24 hours prior to undergoing PCI). The statistical models that are the basis for all patients, non-emergency patients and emergency patients in 2004-2006 are presented in Appendices 3-5, respectively.

As indicated in Table 2, the three-year observed in-hospital/30-day mortality rates for all PCI patients ranged from 0.00 percent to 6.90 percent, and the RAMRs ranged from 0.00 percent to 4.08 percent. Four hospitals (Erie County Medical Center in Buffalo, St. Vincent Catholic Medical Center – St. Vincent's in Manhattan, Strong Memorial Hospital in Rochester and University Hospital SUNY Health Science Center in Syracuse) had RAMRs that were significantly higher than the statewide rate. One hospital (Winthrop University Hospital in Mineola) had a RAMR that was significantly lower than the statewide rate. It should be noted that hospitals are more likely to have results that show a statistically significant difference from the statewide rate when three years of data are used than when one year of data is used because the three-year volumes are higher.

Table 2 also presents the 3-year in-hospital/30-day RAMRs for non-emergency cases based on the model in Appendix 4. Non-emergency cases comprise 88.87 percent of cases for the period 2004-2006. The statewide in-hospital/30-day mortality rate for the 149,079 non-emergency cases during the 3-year period was 0.62 percent. Observed mortality rates for this group of patients ranged from 0.00 percent to 1.18 percent and the RAMRs ranged from 0.00 to 1.08 percent. Two hospitals (Crouse Hospital in Syracuse and St. Vincent Catholic Medical Centers – St. Vincent’s in Manhattan) had RAMRs that were significantly higher than the statewide average. No hospitals had RAMRs significantly below the statewide rate for non-emergency cases.

The last three columns in Table 2 present data on emergency cases based on the model in Appendix 5. Emergency cases represented 11.13 percent of cases for the period 2004-2006. The statewide in-hospital/30-day mortality rate for the 18,673 emergency PCI cases during the 3-year period was 2.83 percent. Observed mortality rates for this group ranged from 0.00 percent to 8.60 percent and the RAMRs ranged from 0.00 percent to 14.91 percent. Two hospitals (Buffalo General Hospital and Erie County Medical Center, both in Buffalo) had RAMRs that were significantly above the statewide average and one hospital (North Shore University Hospital in Manhasset) had a RAMR that was significantly below the statewide average for emergency cases.

The observed in-hospital mortality rate for all 167,752 cases included in Table 2 is 0.50 percent. The in-hospital mortality rate was 0.28 percent for the 149,079 non-emergency cases and 2.27 percent for the 18,673 emergency cases. As stated above, cases with shock are excluded from these analyses. Therefore, volume and mortality rates for the all cases and emergency cases analyses are not directly comparable to those previously published by the Department of Health.

Note on Hospitals Not Performing PCI During Entire 2004-2006 Period

Several hospitals began performing PCI during the 2004 - 2006 time period on which this report is based. These hospitals and the month of the first PCI are listed below. Hospitals marked with “#” were allowed to perform PCI only on STEMI (heart attack) patients in 2004-2006. New York Methodist - April 2004; #St. Catherine of Siena - October 2004; #Huntington Hospital - November 2004; Champlain Valley Physicians Hospital - January 2005; #Long Island College Hospital - September 2005; #Jamaica Hospital Medical Center – May 2006.

Definitions of key terms are as follows:

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

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

The **risk-adjusted mortality rate (RAMR)** is the best estimate, based on the statistical model, of what the provider’s mortality rate would have been if the provider had a mix of patients similar to the statewide mix. It is obtained by first dividing the OMR by the EMR, and then multiplying that quotient by the statewide mortality rate (0.87 percent in-hospital/30-day mortality for all PCI patients discharged in 2006).

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

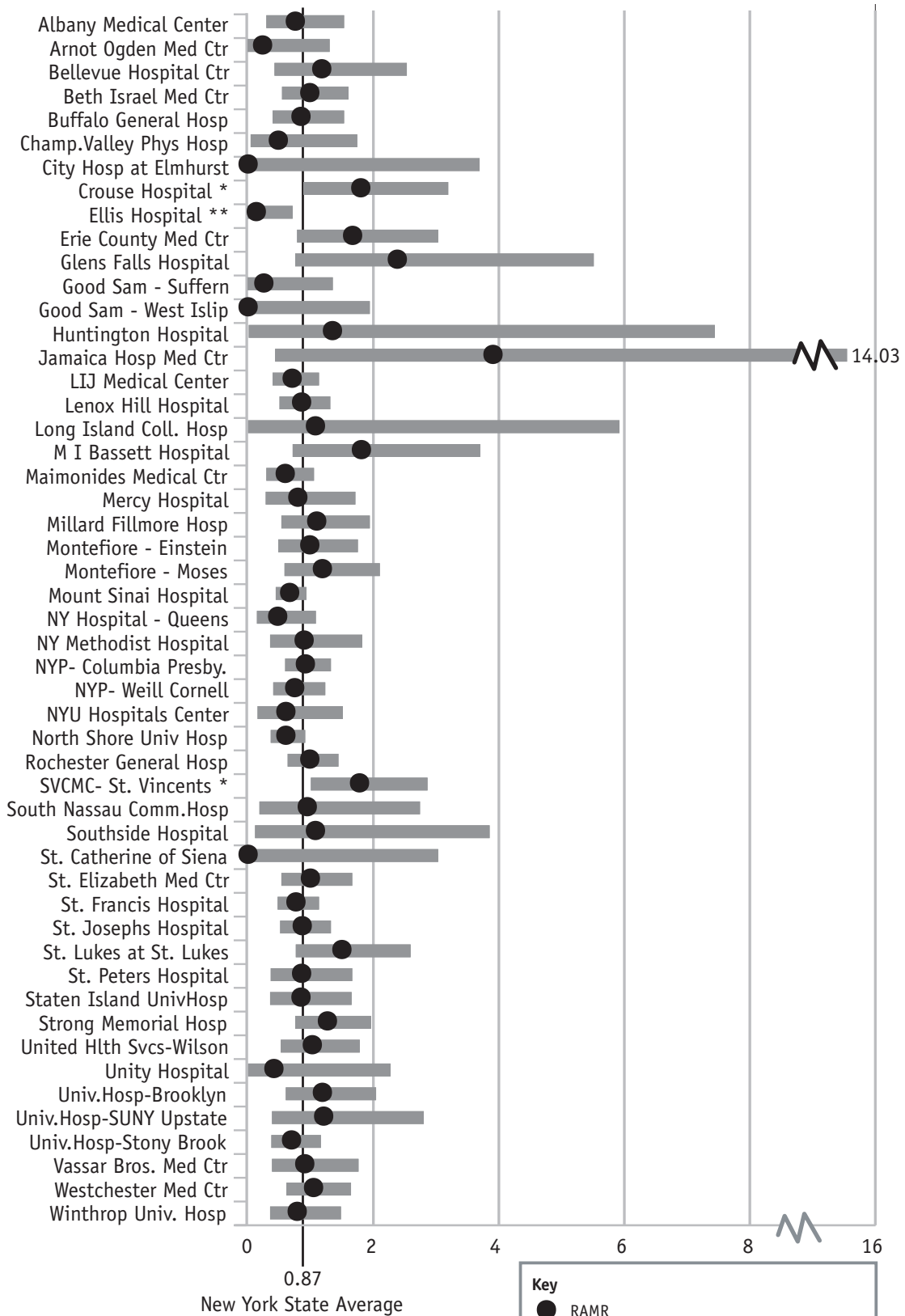
Table 1 In-Hospital/30-Day Observed, Expected and Risk-Adjusted Mortality Rates for PCI in New York State, 2006 Discharges. (Listed Alphabetically by Hospital)

Hospital	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Albany Medical Center	1127	7	0.62	0.72	0.75	(0.30, 1.54)	973	0.46
Arnot Ogden Med Ctr	342	1	0.29	1.08	0.23	(0.00, 1.31)	229	0.00
Bellevue Hospital Ctr	579	6	1.04	0.77	1.17	(0.43, 2.54)	527	0.56
Beth Israel Med Ctr	1831	15	0.82	0.73	0.98	(0.55, 1.61)	1763	0.77
Buffalo General Hosp	1580	10	0.63	0.66	0.84	(0.40, 1.54)	1508	0.49
Champ.Valley Phys Hosp	293	2	0.68	1.22	0.48	(0.05, 1.75)	222	0.41
City Hosp at Elmhurst	68	0	0.00	1.27	0.00	(0.00, 3.70)	14	0.00
Crouse Hospital	715	11	1.54	0.75	1.79 *	(0.89, 3.20)	639	1.88 *
Ellis Hospital	697	1	0.14	0.97	0.13 **	(0.00, 0.72)	542	0.00
Erie County Med Ctr	367	10	2.72	1.43	1.66	(0.79, 3.04)	248	0.44
Glens Falls Hospital	83	5	6.02	2.21	2.37	(0.76, 5.52)	9	0.00
Good Sam - Suffern	104	1	0.96	3.40	0.25	(0.00, 1.36)	.	.
Good Sam - West Islip	93	0	0.00	1.75	0.00	(0.00, 1.95)	.	.
Huntington Hospital	49	1	2.04	1.32	1.34	(0.02, 7.45)	.	.
Jamaica Hosp Med Ctr	29	2	6.90	1.54	3.89	(0.44, 14.03)	.	.
LIJ Medical Center	1916	16	0.84	1.03	0.70	(0.40, 1.14)	1689	0.53
Lenox Hill Hospital	2792	19	0.68	0.70	0.85	(0.51, 1.32)	2634	0.60
Long Island Coll. Hosp	32	1	3.13	2.54	1.07	(0.01, 5.93)	.	.
M I Bassett Hospital	378	7	1.85	0.89	1.80	(0.72, 3.71)	316	0.84
Maimonides Medical Ctr	1536	11	0.72	1.05	0.59	(0.30, 1.06)	1335	0.33
Mercy Hospital	699	6	0.86	0.94	0.79	(0.29, 1.72)	556	0.73
Millard Fillmore Hosp	988	11	1.11	0.89	1.09	(0.54, 1.95)	907	0.96
Montefiore - Einstein	975	11	1.13	1.00	0.98	(0.49, 1.76)	842	0.76
Montefiore - Moses	900	11	1.22	0.90	1.18	(0.59, 2.11)	797	0.73
Mount Sinai Hospital	4786	31	0.65	0.85	0.66	(0.45, 0.94)	4624	0.50
NY Hospital - Queens	1264	5	0.40	0.74	0.47	(0.15, 1.09)	1164	0.00 **
NY Methodist Hospital	1137	7	0.62	0.60	0.89	(0.36, 1.83)	1095	0.63
NYP- Columbia Presby.	3386	27	0.80	0.76	0.91	(0.60, 1.33)	3259	0.68
NYP- Weill Cornell	1748	14	0.80	0.94	0.74	(0.41, 1.24)	1580	0.72
NYU Hospitals Center	801	4	0.50	0.73	0.60	(0.16, 1.52)	747	0.17
North Shore Univ Hosp	3617	21	0.58	0.84	0.60	(0.37, 0.92)	3280	0.50
Rochester General Hosp	2553	25	0.98	0.86	0.98	(0.64, 1.45)	2276	0.63
SVCMC- St. Vincents	1459	16	1.10	0.54	1.77 *	(1.01, 2.87)	1376	1.38 *
South Nassau Comm.Hosp	113	3	2.65	2.45	0.94	(0.19, 2.75)	51	0.00
Southside Hospital	153	2	1.31	1.06	1.07	(0.12, 3.86)	84	0.00
St. Catherine of Siena	52	0	0.00	2.02	0.00	(0.00, 3.04)	.	.
St. Elizabeth Med Ctr	1296	14	1.08	0.94	0.99	(0.54, 1.67)	1141	0.76
St. Francis Hospital	3327	23	0.69	0.79	0.76	(0.48, 1.14)	3141	0.47
St. Josephs Hospital	2054	20	0.97	0.98	0.86	(0.52, 1.33)	1797	0.77
St. Lukes at St. Lukes	608	12	1.97	1.15	1.49	(0.77, 2.60)	530	0.84
St. Peters Hospital	954	8	0.84	0.86	0.85	(0.37, 1.67)	774	0.79
Staten Island UnivHosp	1306	8	0.61	0.63	0.84	(0.36, 1.66)	1178	0.49
Strong Memorial Hosp	1335	19	1.42	0.98	1.26	(0.76, 1.97)	1080	0.97
United Hlth Svcs-Wilson	903	12	1.33	1.13	1.02	(0.53, 1.79)	733	0.70
Unity Hospital	51	1	1.96	4.15	0.41	(0.01, 2.28)	.	.
Univ.Hosp-Brooklyn	1116	12	1.08	0.79	1.18	(0.61, 2.05)	1080	0.85
Univ.Hosp-SUNY Upstate	308	5	1.62	1.17	1.20	(0.39, 2.81)	225	0.34
Univ.Hosp-Stony Brook	1783	14	0.79	0.98	0.69	(0.38, 1.17)	1481	0.66
Vassar Bros. Med Ctr	802	8	1.00	0.96	0.90	(0.39, 1.77)	659	0.50
Westchester Med Ctr	1634	18	1.10	0.92	1.04	(0.62, 1.65)	1414	0.92
Winthrop Univ. Hosp	1225	9	0.73	0.81	0.78	(0.36, 1.49)	1087	0.67
Statewide Total	57944	503	0.87				51606	0.63

* 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 1 In-Hospital/30-Day Risk-Adjusted Mortality Rates for PCI in New York State, 2006 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, 2006 Discharges (Non-Emergency Cases)

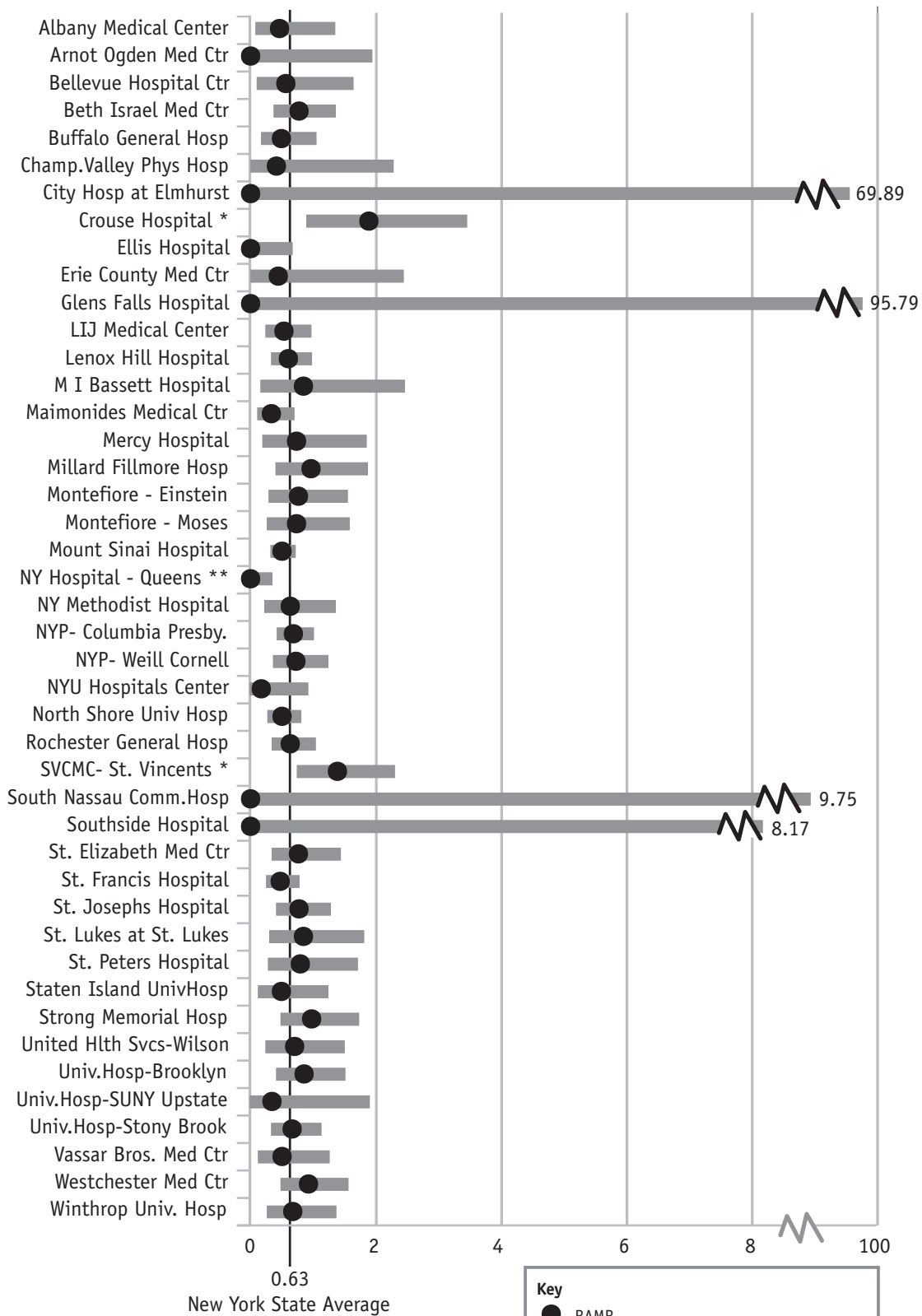


Table 2 In-Hospital/30-Day Observed and Risk-Adjusted Mortality Rates for PCI in New York State, 2004 - 2006 Discharges

Hospital	All Cases			Non-Emergency Cases			Emergency Cases		
	Cases	OMR	RAMR	Cases	OMR	RAMR	Cases	OMR	RAMR
Albany Medical Center	3616	1.00	1.14	3077	0.62	0.83	539	3.15	3.95
Arnot Ogden Med Ctr	1016	0.49	0.48	757	0.40	0.47	259	0.77	1.18
Bellevue Hospital Ctr	1506	0.73	0.72	1361	0.29	0.30	145	4.83	3.90
Beth Israel Med Ctr	4560	0.90	0.96	4370	0.69	0.75	190	5.79	2.87
Buffalo General Hosp	4843	0.70	0.96	4633	0.47	0.55	210	5.71	5.85 *
Champ.Valley Phys Hosp	493	0.81	0.67	374	0.80	0.94	119	0.84	0.95
City Hosp at Elmhurst	197	2.03	1.09	14	0.00	0.00	183	2.19	3.82
Crouse Hospital	2308	1.08	1.20	2071	0.92	1.08 *	237	2.53	2.50
Ellis Hospital	2379	0.71	0.62	1884	0.48	0.47	495	1.62	1.91
Erie County Med Ctr	1152	2.08	1.56 *	881	0.57	0.69	271	7.01	5.96 *
Glens Falls Hospital	198	3.54	1.38	9	0.00	0.00	189	3.70	4.18
Good Sam - Suffern	294	2.38	0.56	.	.	.	294	2.38	1.82
Good Sam - West Islip	265	2.26	0.92	.	.	.	265	2.26	2.95
Huntington Hospital	89	3.37	1.70	.	.	.	89	3.37	5.59
Jamaica Hosp Med Ctr	29	6.90	4.08	.	.	.	29	6.90	14.91
LIJ Medical Center	5462	0.77	0.69	4816	0.64	0.56	646	1.70	1.79
Lenox Hill Hospital	8088	0.78	0.90	7683	0.66	0.66	405	2.96	2.98
Long Island Coll. Hosp	46	2.17	0.70	.	.	.	46	2.17	2.15
M I Bassett Hospital	732	1.64	1.41	581	0.86	0.88	151	4.64	5.16
Maimonides Medical Ctr	4678	1.00	0.76	4214	0.83	0.56	464	2.59	2.98
Mercy Hospital	1955	0.61	0.54	1543	0.39	0.34	412	1.46	2.00
Millard Fillmore Hosp	2955	0.88	0.87	2684	0.67	0.67	271	2.95	2.21
Montefiore - Einstein	2725	1.06	1.16	2439	0.74	0.81	286	3.85	3.87
Montefiore - Moses	2445	0.90	0.96	2199	0.45	0.48	246	4.88	4.65
Mount Sinai Hospital	11833	0.74	0.74	11306	0.62	0.56	527	3.42	1.94
NY Hospital - Queens	3821	0.94	0.94	3502	0.60	0.65	319	4.70	3.41
NY Methodist Hospital	2780	1.01	1.20	2687	0.74	0.72	93	8.60	6.24
NYP- Columbia Presby.	7575	0.83	0.89	7235	0.70	0.66	340	3.53	2.58
NYP- Weill Cornell	5199	0.81	0.68	4711	0.53	0.48	488	3.48	2.07
NYU Hospitals Center	2460	0.57	0.68	2307	0.39	0.46	153	3.27	2.48
North Shore Univ Hosp	11091	0.66	0.74	9969	0.53	0.59	1122	1.78	1.83 **
Rochester General Hosp	7661	0.86	0.88	6761	0.53	0.55	900	3.33	3.28
SVCMC- St. Vincents	4725	0.95	1.26 *	4342	0.78	0.99 *	383	2.87	3.62
South Nassau Comm.Hosp	211	2.37	0.87	51	0.00	0.00	160	3.13	3.07
Southside Hospital	273	1.10	0.87	84	0.00	0.00	189	1.59	2.89
St. Catherine of Siena	99	0.00	0.00	.	.	.	99	0.00	0.00
St. Elizabeth Med Ctr	4185	1.19	1.06	3695	0.84	0.76	490	3.88	3.42
St. Francis Hospital	10637	0.73	0.82	10042	0.57	0.57	595	3.53	2.83
St. Josephs Hospital	6279	0.84	0.80	5458	0.62	0.61	821	2.31	2.39
St. Lukes at St. Lukes	2242	1.29	1.22	2011	0.75	0.72	231	6.06	5.14
St. Peters Hospital	3189	0.82	0.82	2565	0.58	0.62	624	1.76	2.65
Staten Island UnivHosp	4011	0.65	0.95	3634	0.44	0.65	377	2.65	3.06
Strong Memorial Hosp	4119	1.24	1.26 *	3325	0.84	0.82	794	2.90	4.40
United Hlth Svcs-Wilson	2698	1.00	0.73	2209	0.72	0.66	489	2.25	1.83
Unity Hospital	153	1.31	0.36	.	.	.	153	1.31	0.99
Univ.Hosp-Brooklyn	3569	0.78	0.89	3428	0.70	0.69	141	2.84	2.95
Univ.Hosp-SUNY Upstate	819	2.32	1.46 *	593	1.18	0.90	226	5.31	5.32
Univ.Hosp-Stony Brook	4897	0.84	0.76	4048	0.62	0.53	849	1.88	2.41
Vassar Bros. Med Ctr	2472	0.65	0.61	1956	0.36	0.35	516	1.74	2.57
Westchester Med Ctr	4772	0.80	0.74	4007	0.52	0.54	765	2.22	2.29
Winthrop Univ. Hosp	3951	0.51	0.55 **	3563	0.42	0.43	388	1.29	1.59
Statewide Total	167752	0.86		149079	0.62		18673	2.83	

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

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

2004-2006 HOSPITAL AND CARDIOLOGIST DATA FOR PCI

Table 3 provides the number of PCIs, number of PCI patients who died in the hospital or after discharge but within 30 days, OMR, EMR, RAMR, and the 95 percent confidence interval for the RAMR for 2004-2006 for cardiologists in each of the 51 hospitals performing PCI during the time period and for each of the hospitals. Table 3 also contains the volume and RAMR for cardiologists and hospitals for non-emergency cases.

This information is presented for each cardiologist who (a) performed 200 or more PCIs during 2004-2006, and/or (b) performed at least one PCI in each of the years 2004-2006. 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 2004-2006.

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

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

Table 3 Cardiologist In-Hospital/30-Day Observed, Expected and Risk-Adjusted Mortality Rates for PCI in New York State, 2004 - 2006 Discharges

	ALL CASES						NON-EMERGENCY	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Statewide Total	167752	1447	0.86				149079	0.62
Albany Medical Center Hospital								
#Bishop G	17	0	0.00	0.54	0.00	(0.00,34.73)	16	0.00
##Brady S	599	7	1.17	0.88	1.14	(0.46, 2.36)	486	1.03
##Delago A	1402	9	0.64	0.58	0.95	(0.44, 1.81)	1267	0.59
##Esper D	231	4	1.73	1.22	1.22	(0.33, 3.13)	170	1.47
##Hogan R	348	1	0.29	0.44	0.57	(0.01, 3.16)	345	0.40
Houghton J	360	7	1.94	0.73	2.29 *	(0.92, 4.72)	295	1.34
#Macina A	106	0	0.00	1.52	0.00	(0.00, 1.97)	48	0.00
#Mani A	208	4	1.92	1.17	1.41	(0.38, 3.62)	160	1.22
#Marmulstein M	1	0	0.00	0.06	0.00	(0.00,100.0)	1	0.00
##Papaleo R	293	4	1.37	0.65	1.80	(0.48, 4.61)	260	1.11
##Papandrea L	46	0	0.00	1.38	0.00	(0.00, 4.99)	25	0.00
#Roccario E	3	0	0.00	3.11	0.00	(0.00,33.86)	2	0.00
All Others	2	0	0.00	0.26	0.00	(0.00,100.0)	2	0.00
TOTAL	3616	36	1.00	0.75	1.14	(0.80, 1.58)	3077	0.83

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Arnot-Ogden Medical Center								
Laifer L	521	2	0.38	0.71	0.47	(0.05, 1.68)	409	0.37
Winer H	495	3	0.61	1.07	0.49	(0.10, 1.43)	348	0.53
TOTAL	1016	5	0.49	0.88	0.48	(0.15, 1.12)	757	0.47
Bellevue Hospital Center								
#Attubato M	257	2	0.78	1.24	0.54	(0.06, 1.96)	231	0.00
#Babaev A	21	1	4.76	0.93	4.43	(0.06,24.67)	10	0.00
#Feit F	277	0	0.00	0.54	0.00	(0.00, 2.12)	263	0.00
#Keller N	192	1	0.52	1.18	0.38	(0.00, 2.13)	166	0.00
#Pena Sing I	569	4	0.70	0.78	0.78	(0.21, 1.99)	523	0.45
##Slater J	141	2	1.42	0.88	1.39	(0.16, 5.00)	124	1.31
All Others	49	1	2.04	0.82	2.15	(0.03,11.98)	44	0.00
TOTAL	1506	11	0.73	0.88	0.72	(0.36, 1.28)	1361	0.30
Beth Israel Medical Center								
#Bhambhani G	405	1	0.25	0.24	0.89	(0.01, 4.93)	405	0.70
#Brown D	133	1	0.75	1.19	0.54	(0.01, 3.03)	123	0.00
Fox J	2063	15	0.73	0.92	0.68	(0.38, 1.13)	1977	0.51
#Gowda R	361	9	2.49	1.48	1.45	(0.66, 2.76)	326	1.39
##Kantrowitz N	405	4	0.99	0.58	1.46	(0.39, 3.75)	402	1.11
#Kwan T	194	0	0.00	0.31	0.00	(0.00, 5.23)	192	0.00
Nero T	374	6	1.60	1.05	1.32	(0.48, 2.88)	328	1.27
Patel R H	122	1	0.82	0.56	1.26	(0.02, 7.01)	122	0.99
#Reimers C	183	1	0.55	0.41	1.14	(0.01, 6.32)	183	0.83
#Rentrop K	20	0	0.00	0.21	0.00	(0.00,75.08)	20	0.00
#Shaknovich A	226	3	1.33	0.47	2.46	(0.49, 7.18)	226	1.92
##Wilentz J	10	0	0.00	0.29	0.00	(0.00,100.0)	9	0.00
All Others	64	0	0.00	0.85	0.00	(0.00, 5.84)	57	0.00
TOTAL	4560	41	0.90	0.81	0.96	(0.69, 1.30)	4370	0.75
Buffalo General Hospital								
Conley J	1435	5	0.35	0.53	0.56	(0.18, 1.31)	1398	0.19
##Corbelli J	4	0	0.00	1.46	0.00	(0.00,54.02)	.	.
Farhi E	1026	12	1.17	0.98	1.02	(0.53, 1.79)	935	0.61
##Haq N	1	0	0.00	0.56	0.00	(0.00,100.0)	.	.
#Masud A	317	0	0.00	0.48	0.00	(0.00, 2.08)	308	0.00
##Morris W	531	5	0.94	0.81	1.01	(0.32, 2.35)	504	0.69
#Nguyen-Ho P	2	0	0.00	1.51	0.00	(0.00,100.0)	1	0.00
Paris J	64	0	0.00	0.43	0.00	(0.00,11.50)	61	0.00
##Phadke K	2	0	0.00	1.81	0.00	(0.00,87.63)	1	0.00
#Sullivan P	99	3	3.03	0.58	4.49 *	(0.90,13.13)	96	1.47
Visco J	1362	9	0.66	0.45	1.27	(0.58, 2.41)	1329	0.91
TOTAL	4843	34	0.70	0.63	0.96	(0.66, 1.34)	4633	0.55

Table 3 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Champlain Valley Physicians Hospital								
#Garrand T	363	3	0.83	1.00	0.71	(0.14, 2.08)	270	1.04
##Giambartolomei A	1	0	0.00	9.69	0.00	(0.00,32.64)	1	0.00
All Others	129	1	0.78	1.08	0.62	(0.01, 3.44)	103	0.90
TOTAL	493	4	0.81	1.04	0.67	(0.18, 1.72)	374	0.94
City Hospital at Elmhurst								
#Kamran M	145	2	1.38	1.48	0.80	(0.09, 2.90)	14	0.00
#Kim M	25	2	8.00	1.44	4.81	(0.54,17.36)	.	.
#Krishnan P	27	0	0.00	2.42	0.00	(0.00, 4.85)	.	.
TOTAL	197	4	2.03	1.60	1.09	(0.29, 2.80)	14	0.00
Crouse Hospital								
#Alfaro-Franco C	159	1	0.63	0.42	1.28	(0.02, 7.12)	150	0.00
#Amin N	235	1	0.43	0.77	0.48	(0.01, 2.66)	211	0.51
#Battaglia J	930	12	1.29	0.63	1.78 *	(0.92, 3.10)	855	1.60 *
#Berkery W	428	6	1.40	1.19	1.01	(0.37, 2.21)	363	1.12
#Bhan R	5	0	0.00	0.21	0.00	(0.00,100.0)	5	0.00
#Caputo R	53	1	1.89	0.88	1.86	(0.02,10.32)	48	0.00
#Ford T	172	1	0.58	0.52	0.96	(0.01, 5.35)	152	0.00
##Giambartolomei A	17	0	0.00	0.30	0.00	(0.00,62.69)	14	0.00
#Iskander A	7	0	0.00	0.54	0.00	(0.00,84.09)	7	0.00
#Lozner E	182	1	0.55	1.22	0.39	(0.01, 2.16)	156	0.70
#Reger M	17	0	0.00	1.25	0.00	(0.00,14.84)	15	0.00
#Simons A	22	1	4.55	1.33	2.96	(0.04,16.44)	20	2.39
All Others	81	1	1.23	0.41	2.61	(0.03,14.51)	75	2.15
TOTAL	2308	25	1.08	0.78	1.20	(0.78, 1.78)	2071	1.08 *
Ellis Hospital								
#Card H	4	0	0.00	0.23	0.00	(0.00,100.0)	4	0.00
Cospito P	462	2	0.43	1.13	0.33	(0.04, 1.19)	359	0.00
#Dempsey S	122	1	0.82	0.61	1.15	(0.02, 6.41)	116	0.93
##Hogan R	273	0	0.00	0.56	0.00	(0.00, 2.07)	269	0.00
Jordan M	399	3	0.75	1.07	0.61	(0.12, 1.78)	261	0.93
#Kufs W	143	1	0.70	0.61	1.00	(0.01, 5.54)	136	0.79
Parkes R	623	3	0.48	1.04	0.40	(0.08, 1.16)	487	0.37
Weitz S	353	7	1.98	1.27	1.34	(0.54, 2.77)	252	1.30
TOTAL	2379	17	0.71	0.99	0.62	(0.36, 0.99)	1884	0.47
Erie County Medical Center								
##Corbelli J	5	0	0.00	0.13	0.00	(0.00,100.0)	5	0.00
Dashkoff N	740	12	1.62	0.92	1.52	(0.78, 2.65)	598	0.20
##Emerson R	61	2	3.28	2.73	1.04	(0.12, 3.74)	37	2.09
##Phadke K	234	4	1.71	0.93	1.58	(0.43, 4.06)	203	1.51

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Erie County Medical Center, <i>continued</i>								
Young H	70	5	7.14	3.29	1.87	(0.60, 4.37)	5	0.00
All Others	42	1	2.38	0.72	2.86	(0.04,15.93)	33	3.66
TOTAL	1152	24	2.08	1.15	1.56 *	(1.00, 2.32)	881	0.69
Glens Falls Hospital								
##Brady S	2	0	0.00	2.58	0.00	(0.00,61.21)	.	.
##Delago A	11	1	9.09	1.83	4.28	(0.06,23.79)	.	.
##Desantis J	36	1	2.78	2.72	0.88	(0.01, 4.90)	.	.
##Esper D	8	0	0.00	2.13	0.00	(0.00,18.57)	.	.
##Hogan R	133	5	3.76	2.11	1.54	(0.50, 3.59)	9	0.00
##Papaleo R	6	0	0.00	1.96	0.00	(0.00,26.88)	.	.
##Papandrea L	1	0	0.00	0.53	0.00	(0.00,100.0)	.	.
All Others	1	0	0.00	3.40	0.00	(0.00,93.11)	.	.
TOTAL	198	7	3.54	2.20	1.38	(0.55, 2.85)	9	0.00
Good Samaritan - Suffern								
#Brogno D	96	2	2.08	3.76	0.48	(0.05, 1.72)	.	.
Innerfield M	47	2	4.26	4.57	0.80	(0.09, 2.90)	.	.
#Kovar L	49	1	2.04	4.73	0.37	(0.00, 2.07)	.	.
Shih A C	79	2	2.53	2.90	0.75	(0.08, 2.71)	.	.
All Others	23	0	0.00	1.67	0.00	(0.00, 8.22)	.	.
TOTAL	294	7	2.38	3.66	0.56	(0.22, 1.16)	.	.
Good Samaritan Hosp Med Ctr- West Islip								
##Caselnova R	33	1	3.03	2.04	1.28	(0.02, 7.13)	.	.
##Deutsch E	26	0	0.00	1.83	0.00	(0.00, 6.66)	.	.
##Hormozi S	41	1	2.44	2.77	0.76	(0.01, 4.23)	.	.
##Lee P J	64	2	3.13	2.18	1.24	(0.14, 4.47)	.	.
##Patel R B	55	2	3.64	2.08	1.51	(0.17, 5.45)	.	.
##Reich D	42	0	0.00	1.61	0.00	(0.00, 4.69)	.	.
All Others	4	0	0.00	3.03	0.00	(0.00,26.11)	.	.
TOTAL	265	6	2.26	2.12	0.92	(0.34, 2.01)	.	.
Huntington Hospital								
##Bagga R	12	0	0.00	1.00	0.00	(0.00,26.47)	.	.
##Caselnova R	4	0	0.00	0.83	0.00	(0.00,95.08)	.	.
##Freeman J	1	0	0.00	1.65	0.00	(0.00,100.0)	.	.
##Gambino A	2	0	0.00	0.87	0.00	(0.00,100.0)	.	.
##Jauhar R	2	0	0.00	0.77	0.00	(0.00,100.0)	.	.
##Kaplan B	1	0	0.00	0.67	0.00	(0.00,100.0)	.	.
##Marchant D	1	0	0.00	0.51	0.00	(0.00,100.0)	.	.
##Park C	1	0	0.00	0.74	0.00	(0.00,100.0)	.	.
#Patcha R	31	1	3.23	1.26	2.22	(0.03,12.32)	.	.

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Huntington Hospital, <i>continued</i>								
##Schwartz R	1	0	0.00	0.67	0.00	(0.00,100.0)	.	.
##Strizik B	30	2	6.67	2.81	2.04	(0.23, 7.38)	.	.
All Others	3	0	0.00	2.04	0.00	(0.00,51.78)	.	.
TOTAL	89	3	3.37	1.71	1.70	(0.34, 4.97)	.	.
Jamaica Hospital Medical Center								
#Halkin A	1	0	0.00	1.66	0.00	(0.00,100.0)	.	.
#Lasic Z	11	0	0.00	1.17	0.00	(0.00,24.67)	.	.
#Soffer D	1	0	0.00	0.67	0.00	(0.00,100.0)	.	.
##Suleman J	7	2	28.57	2.50	9.85 *	(1.11,35.56)	.	.
All Others	9	0	0.00	1.06	0.00	(0.00,33.02)	.	.
TOTAL	29	2	6.90	1.46	4.08	(0.46,14.74)	.	.
Lenox Hill Hospital								
Cohen H	487	5	1.03	0.75	1.18	(0.38, 2.76)	460	0.94
#Collins M	275	1	0.36	0.81	0.39	(0.01, 2.14)	264	0.00
#Colombo A	12	0	0.00	0.35	0.00	(0.00,76.40)	12	0.00
#Dangas G	226	4	1.77	0.83	1.85	(0.50, 4.73)	213	1.39
#Dominguez A	484	8	1.65	0.92	1.55	(0.67, 3.05)	480	1.15
Garratt K	604	7	1.16	0.72	1.38	(0.55, 2.85)	556	1.13
##Geizhals M	93	1	1.08	0.51	1.82	(0.02,10.14)	93	1.21
#Halkin A	344	3	0.87	0.95	0.79	(0.16, 2.31)	312	0.53
Iyer S	585	1	0.17	0.78	0.19	(0.00, 1.05)	550	0.19
##Jayasundera T	77	0	0.00	0.48	0.00	(0.00, 8.50)	76	0.00
#Kesanakurthy S	208	0	0.00	0.64	0.00	(0.00, 2.39)	205	0.00
#Kreps E	168	2	1.19	0.96	1.07	(0.12, 3.86)	161	0.63
#Lasic Z	422	1	0.24	0.81	0.25	(0.00, 1.40)	385	0.00
#Leon M	178	1	0.56	0.52	0.93	(0.01, 5.15)	174	0.70
#Mehran R	30	0	0.00	1.35	0.00	(0.00, 7.83)	28	0.00
#Moses J	484	4	0.83	0.53	1.36	(0.36, 3.47)	484	0.98
#Moussa I	329	2	0.61	0.73	0.72	(0.08, 2.59)	322	0.56
#Puma A	216	0	0.00	0.62	0.00	(0.00, 2.37)	210	0.00
#Reimers C	1114	11	0.99	0.73	1.17	(0.58, 2.09)	1058	0.66
Roubin G	817	6	0.73	0.70	0.91	(0.33, 1.97)	773	0.70
#Soffer D	383	3	0.78	0.77	0.88	(0.18, 2.56)	361	0.75
#Stone G	120	0	0.00	0.96	0.00	(0.00, 2.74)	108	0.00
#Teirstein P	35	0	0.00	0.70	0.00	(0.00,12.83)	35	0.00
##Wilentz J	66	1	1.52	0.48	2.75	(0.04,15.28)	65	2.60
All Others	331	2	0.60	0.75	0.70	(0.08, 2.51)	298	0.76
TOTAL	8088	63	0.78	0.75	0.90	(0.69, 1.15)	7683	0.66

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Long Island College Hospital								
#Gowda R	2	0	0.00	1.94	0.00	(0.00,81.44)	.	.
##Kantrowitz N	44	1	2.27	2.72	0.72	(0.01, 4.02)	.	.
TOTAL	46	1	2.17	2.68	0.70	(0.01, 3.89)	.	.
Long Island Jewish Medical Center								
##Bagga R	81	0	0.00	0.42	0.00	(0.00, 9.35)	81	0.00
##Freeman J	30	0	0.00	2.21	0.00	(0.00, 4.78)	5	0.00
##Friedman G	452	5	1.11	0.97	0.99	(0.32, 2.30)	415	0.87
#Green S	15	0	0.00	2.44	0.00	(0.00, 8.66)	1	0.00
##Grunwald A	558	4	0.72	0.92	0.67	(0.18, 1.72)	517	0.32
Hameedi A	209	0	0.00	0.20	0.00	(0.00, 7.72)	207	0.00
##Hormozi S	3	0	0.00	0.36	0.00	(0.00,100.0)	3	0.00
##Jauhar R	1147	8	0.70	0.91	0.66	(0.28, 1.30)	991	0.67
##Kaplan B	1354	10	0.74	0.97	0.65	(0.31, 1.20)	1231	0.57
#Katz S	17	0	0.00	1.23	0.00	(0.00,15.13)	3	0.00
Kim B	46	0	0.00	0.28	0.00	(0.00,24.59)	46	0.00
##Koss J	507	3	0.59	0.86	0.59	(0.12, 1.73)	469	0.38
#Lee A	24	0	0.00	2.40	0.00	(0.00, 5.50)	2	0.00
##Lee P J	11	1	9.09	0.52	14.98	(0.20,83.34)	11	8.31
##Marchant D	28	0	0.00	1.67	0.00	(0.00, 6.79)	1	0.00
#Musso J	6	0	0.00	0.58	0.00	(0.00,90.87)	5	0.00
#Ong L Y	17	0	0.00	2.84	0.00	(0.00, 6.55)	2	0.00
#Padmanabhan V	7	0	0.00	1.07	0.00	(0.00,42.22)	7	0.00
##Park C	679	10	1.47	1.26	1.00	(0.48, 1.85)	557	0.67
##Park J	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
##Reich D	146	0	0.00	1.13	0.00	(0.00, 1.91)	144	0.00
##Strizik B	47	0	0.00	1.22	0.00	(0.00, 5.52)	46	0.00
##Suleman J	37	0	0.00	0.54	0.00	(0.00,15.72)	34	0.00
All Others	40	1	2.50	0.57	3.77	(0.05,20.98)	37	3.11
TOTAL	5462	42	0.77	0.96	0.69	(0.50, 0.93)	4816	0.56
Maimonides Medical Center								
Borgen E	1096	12	1.09	1.38	0.68	(0.35, 1.20)	925	0.59
Frankel R	692	6	0.87	0.98	0.76	(0.28, 1.66)	655	0.70
Friedman M	334	5	1.50	1.24	1.04	(0.34, 2.43)	284	0.46
Malik B	1155	15	1.30	1.26	0.89	(0.50, 1.47)	966	0.57
#Sacchi T	79	1	1.27	0.45	2.42	(0.03,13.47)	79	1.74
Shani J	1320	8	0.61	0.92	0.57	(0.25, 1.12)	1303	0.46
All Others	2	0	0.00	0.25	0.00	(0.00,100.0)	2	0.00
TOTAL	4678	47	1.00	1.13	0.76	(0.56, 1.02)	4214	0.56

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Mary Imogene Bassett Hospital								
Clark V	335	6	1.79	0.85	1.82	(0.67, 3.97)	271	1.76
#Irobunda C	1	0	0.00	0.06	0.00	(0.00,100.0)	1	0.00
#Menzies D	195	3	1.54	1.03	1.29	(0.26, 3.78)	160	0.50
All Others	201	3	1.49	1.24	1.04	(0.21, 3.04)	149	0.00
TOTAL	732	12	1.64	1.00	1.41	(0.73, 2.47)	581	0.88
Mercy Hospital								
#Calandra S	422	2	0.47	0.84	0.49	(0.05, 1.75)	330	0.60
##Emerson R	301	1	0.33	1.02	0.28	(0.00, 1.56)	198	0.00
#Gelormini J	349	4	1.15	1.03	0.96	(0.26, 2.46)	286	0.31
##Haq N	410	2	0.49	0.88	0.48	(0.05, 1.73)	342	0.24
##Morris W	360	2	0.56	1.15	0.42	(0.05, 1.50)	290	0.30
All Others	113	1	0.88	1.11	0.69	(0.01, 3.81)	97	0.92
TOTAL	1955	12	0.61	0.98	0.54	(0.28, 0.94)	1543	0.34
Millard Fillmore Hospital								
#Calandra S	256	0	0.00	0.64	0.00	(0.00, 1.92)	249	0.00
##Corbelli J	681	9	1.32	0.93	1.23	(0.56, 2.33)	620	1.19
##Emerson R	1	0	0.00	0.12	0.00	(0.00,100.0)	1	0.00
#Gelormini J	211	1	0.47	0.82	0.50	(0.01, 2.76)	195	0.47
##Haq N	71	0	0.00	0.60	0.00	(0.00, 7.45)	67	0.00
#Masud A	304	4	1.32	0.92	1.23	(0.33, 3.16)	278	0.92
##Morris W	337	2	0.59	0.85	0.61	(0.07, 2.19)	323	0.62
#Nguyen-Ho P	200	3	1.50	1.26	1.03	(0.21, 3.00)	177	0.39
##Phadke K	893	7	0.78	0.85	0.79	(0.32, 1.63)	773	0.59
#Sullivan P	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
TOTAL	2955	26	0.88	0.88	0.87	(0.57, 1.27)	2684	0.67
Montefiore Medical Center - Einstein								
Gotsis W	847	9	1.06	0.56	1.64	(0.75, 3.12)	791	1.45 *
Monrad E	576	6	1.04	0.85	1.05	(0.38, 2.29)	501	0.94
Silverman G	579	4	0.69	0.79	0.75	(0.20, 1.92)	498	0.68
Srinivas V	626	7	1.12	0.99	0.98	(0.39, 2.01)	566	0.33
All Others	97	3	3.09	1.24	2.16	(0.43, 6.30)	83	0.00
TOTAL	2725	29	1.06	0.79	1.16	(0.77, 1.66)	2439	0.81
Montefiore Medical Center - Moses								
#Goldman A Y	418	6	1.44	0.87	1.43	(0.52, 3.12)	398	0.54
Greenberg M	771	6	0.78	0.75	0.90	(0.33, 1.95)	690	0.47
#Grose R	167	2	1.20	0.75	1.38	(0.15, 4.98)	153	0.00
#Johnson M	295	2	0.68	0.64	0.91	(0.10, 3.28)	280	0.83
Menegus M	763	6	0.79	0.91	0.74	(0.27, 1.62)	648	0.44

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Montefiore Medical Center - Moses, <i>continued</i>								
#Sehhat K	9	0	0.00	1.30	0.00	(0.00,26.96)	8	0.00
All Others	22	0	0.00	0.85	0.00	(0.00,17.02)	22	0.00
TOTAL	2445	22	0.90	0.81	0.96	(0.60, 1.45)	2199	0.48
Mt. Sinai Hospital								
##Jayasundera T	525	2	0.38	0.51	0.64	(0.07, 2.32)	514	0.52
#Kamran M	576	0	0.00	0.54	0.00	(0.00, 1.03)	554	0.00
#Kim M	1492	15	1.01	1.12	0.78	(0.43, 1.28)	1416	0.69
Kini A	2473	11	0.44	0.84	0.45 **	(0.23, 0.81)	2336	0.30 **
#Krishnan P	478	11	2.30	1.15	1.72	(0.86, 3.08)	435	1.67 *
#Lee J	289	2	0.69	0.54	1.10	(0.12, 3.97)	288	0.77
Mittal N	400	1	0.25	0.34	0.63	(0.01, 3.50)	399	0.46
Moreno P	933	11	1.18	1.32	0.77	(0.38, 1.38)	834	0.64
Sharma S	3502	25	0.71	0.80	0.77	(0.50, 1.14)	3416	0.58
#Sherman W	188	0	0.00	0.91	0.00	(0.00, 1.84)	183	0.00
##Suleman J	866	9	1.04	0.86	1.04	(0.47, 1.98)	826	0.77
All Others	111	1	0.90	0.92	0.85	(0.01, 4.70)	105	0.85
TOTAL	11833	88	0.74	0.86	0.74	(0.59, 0.91)	11306	0.56
NY Methodist Hospital								
#Afflu E	17	0	0.00	0.22	0.00	(0.00,83.08)	17	0.00
#Badero O	84	0	0.00	0.28	0.00	(0.00,13.38)	84	0.00
##Palta S	44	0	0.00	0.86	0.00	(0.00, 8.38)	44	0.00
#Puma A	591	11	1.86	0.86	1.86 *	(0.93, 3.33)	579	1.24
#Reddy C	348	2	0.57	0.86	0.58	(0.06, 2.08)	338	0.44
#Sacchi T	1364	14	1.03	0.72	1.24	(0.67, 2.07)	1294	0.71
#Shaknovich A	91	0	0.00	0.39	0.00	(0.00, 8.94)	91	0.00
#Tai Z	63	0	0.00	0.37	0.00	(0.00,13.53)	63	0.00
All Others	178	1	0.56	0.56	0.87	(0.01, 4.81)	177	0.63
TOTAL	2780	28	1.01	0.72	1.20	(0.80, 1.74)	2687	0.72
NYP Hospital - Columbia Presbyterian								
Apfelbaum M	209	1	0.48	0.88	0.47	(0.01, 2.62)	183	0.00
#Brogno D	8	0	0.00	1.12	0.00	(0.00,35.32)	7	0.00
#Collins M	706	7	0.99	0.92	0.93	(0.37, 1.91)	688	0.55
#Colombo A	35	0	0.00	0.76	0.00	(0.00,11.88)	35	0.00
#Dangas G	604	2	0.33	0.87	0.33	(0.04, 1.18)	569	0.33
#Grose R	284	2	0.70	0.73	0.83	(0.09, 3.00)	278	0.64
#Irobunda C	123	1	0.81	0.63	1.11	(0.01, 6.16)	111	1.11
#Johnson M	110	0	0.00	0.49	0.00	(0.00, 5.84)	107	0.00
#Kesanakurthy S	144	1	0.69	0.69	0.87	(0.01, 4.86)	143	0.65
#Kovar L	3	0	0.00	0.26	0.00	(0.00,100.0)	3	0.00
#Kreps E	334	6	1.80	1.25	1.24	(0.45, 2.70)	318	0.73

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
NYP Hospital - Columbia Presbyterian, <i>continued</i>								
#Leon M	327	5	1.53	0.81	1.63	(0.53, 3.81)	320	1.29
#Mehran R	212	3	1.42	0.65	1.89	(0.38, 5.52)	198	0.68
#Menzies D	2	0	0.00	3.77	0.00	(0.00,41.98)	2	0.00
#Moses J	1499	7	0.47	0.55	0.73	(0.29, 1.50)	1499	0.53
#Moussa I	615	4	0.65	0.80	0.71	(0.19, 1.81)	589	0.61
#Perry-Bottinger L	49	0	0.00	0.35	0.00	(0.00,18.56)	48	0.00
Rabbani L	466	1	0.21	0.77	0.24	(0.00, 1.34)	416	0.28
Reison D	35	0	0.00	0.37	0.00	(0.00,24.12)	34	0.00
#Sherman W	211	2	0.95	0.95	0.86	(0.10, 3.11)	191	0.90
#Singh V	292	2	0.68	0.44	1.35	(0.15, 4.86)	287	0.98
#Stone G	220	3	1.36	0.89	1.32	(0.27, 3.87)	207	0.81
#Teirstein P	62	1	1.61	1.35	1.03	(0.01, 5.75)	61	0.81
Weinberger J	203	5	2.46	1.09	1.95	(0.63, 4.54)	186	1.75
Weisz G	342	7	2.05	0.95	1.87	(0.75, 3.85)	327	1.52
All Others	480	3	0.63	1.16	0.46	(0.09, 1.35)	428	0.20
TOTAL	7575	63	0.83	0.80	0.89	(0.69, 1.14)	7235	0.66
NYP Hospital - Weill Cornell								
Bergman G	793	7	0.88	1.00	0.76	(0.31, 1.57)	712	0.39
#Charney R	292	2	0.68	0.81	0.73	(0.08, 2.63)	282	0.35
##Geizhals M	46	1	2.17	0.71	2.66	(0.03,14.79)	44	2.14
#Hong M	400	6	1.50	1.83	0.71	(0.26, 1.54)	350	0.53
Iacovone F	285	2	0.70	0.94	0.64	(0.07, 2.31)	262	0.65
#Messinger D	232	0	0.00	1.01	0.00	(0.00, 1.35)	221	0.00
Minutello R	544	3	0.55	1.45	0.33	(0.07, 0.96)	437	0.18
#Naidu S	485	11	2.27	1.33	1.47	(0.73, 2.63)	415	0.94
Parikh M	1242	5	0.40	0.72	0.48	(0.15, 1.12)	1174	0.38
#Reddy C	38	0	0.00	0.48	0.00	(0.00,17.37)	38	0.00
Wong S	713	4	0.56	0.60	0.81	(0.22, 2.07)	656	0.82
All Others	129	1	0.78	1.87	0.36	(0.00, 1.99)	120	0.00
TOTAL	5199	42	0.81	1.02	0.68	(0.49, 0.92)	4711	0.48
NYU Hospitals Center								
##Angelopoulos P	7	0	0.00	0.44	0.00	(0.00,100.0)	7	0.00
#Attubato M	795	7	0.88	0.86	0.89	(0.36, 1.83)	732	0.74
#Babaev A	354	1	0.28	0.65	0.38	(0.00, 2.09)	346	0.00
#Feit F	820	1	0.12	0.58	0.18	(0.00, 1.01)	774	0.17
#Keller N	8	0	0.00	2.11	0.00	(0.00,18.75)	4	0.00
#Pena Sing I	155	1	0.65	1.27	0.44	(0.01, 2.45)	143	0.00
##Slater J	302	4	1.32	0.57	2.00	(0.54, 5.12)	283	1.11
#Staniloae C	5	0	0.00	0.12	0.00	(0.00,100.0)	5	0.00
All Others	14	0	0.00	0.52	0.00	(0.00,43.58)	13	0.00
TOTAL	2460	14	0.57	0.72	0.68	(0.37, 1.14)	2307	0.46

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
New York Hospital Medical Ctr of Queens								
#Chang J	1034	7	0.68	0.88	0.66	(0.26, 1.36)	930	0.35
#Chiu S	147	0	0.00	0.32	0.00	(0.00, 6.77)	145	0.00
David M	135	2	1.48	0.51	2.48	(0.28, 8.97)	132	1.96
##Friedman G	20	0	0.00	0.74	0.00	(0.00,21.35)	18	0.00
##Geizhals M	360	3	0.83	0.58	1.25	(0.25, 3.65)	355	1.02
##Grunwald A	21	0	0.00	0.92	0.00	(0.00,16.38)	20	0.00
Gustafson G	971	13	1.34	0.85	1.36	(0.72, 2.33)	906	1.08
##Koss J	8	0	0.00	0.34	0.00	(0.00,100.0)	8	0.00
Papadakos S	1103	11	1.00	1.09	0.79	(0.39, 1.41)	966	0.39
##Park J	11	0	0.00	0.18	0.00	(0.00,100.0)	11	0.00
#Perry-Bottinger L	11	0	0.00	0.65	0.00	(0.00,44.14)	11	0.00
TOTAL	3821	36	0.94	0.87	0.94	(0.66, 1.30)	3502	0.65
North Shore University Hospital								
##Angelopoulos P	27	0	0.00	0.49	0.00	(0.00,23.92)	24	0.00
##Bagga R	117	0	0.00	0.55	0.00	(0.00, 4.90)	116	0.00
##Balchandani R	5	0	0.00	0.41	0.00	(0.00,100.0)	5	0.00
##Caselnova R	664	6	0.90	0.65	1.20	(0.44, 2.60)	636	0.98
#Chang J	2	0	0.00	0.27	0.00	(0.00,100.0)	1	0.00
##Dervan J	3	0	0.00	0.14	0.00	(0.00,100.0)	3	0.00
##Deutsch E	561	3	0.53	0.52	0.88	(0.18, 2.58)	556	0.67
##Freeman J	1064	10	0.94	1.00	0.81	(0.39, 1.50)	887	1.04
##Friedman G	109	5	4.59	0.79	5.01 *	(1.61,11.69)	98	3.41 *
##Gambino A	107	1	0.93	0.40	2.00	(0.03,11.15)	105	1.61
#Green S	807	8	0.99	1.00	0.85	(0.37, 1.68)	660	0.31
##Grella R	5	0	0.00	0.18	0.00	(0.00,100.0)	5	0.00
##Grunwald A	90	1	1.11	1.46	0.66	(0.01, 3.65)	77	0.80
##Hormozi S	380	2	0.53	0.47	0.97	(0.11, 3.49)	374	0.68
##Jauhar R	34	1	2.94	1.58	1.61	(0.02, 8.95)	3	0.00
##Kaplan B	47	0	0.00	1.92	0.00	(0.00, 3.50)	4	0.00
#Katz S	764	4	0.52	0.75	0.60	(0.16, 1.53)	684	0.51
##Koss J	78	1	1.28	1.07	1.03	(0.01, 5.72)	66	0.00
##Lederman S	233	3	1.29	0.65	1.70	(0.34, 4.96)	225	1.54
#Lee A	708	7	0.99	1.15	0.74	(0.30, 1.53)	561	0.53
##Lee P J	668	2	0.30	0.51	0.50	(0.06, 1.81)	661	0.41
##Marchant D	520	5	0.96	0.97	0.85	(0.27, 1.99)	404	0.88
#Musso J	72	0	0.00	0.34	0.00	(0.00,12.93)	71	0.00
#Ong L Y	914	1	0.11	0.93	0.10 **	(0.00, 0.56)	817	0.00 **
#Padmanabhan V	197	1	0.51	0.89	0.49	(0.01, 2.75)	176	0.00
##Park C	63	1	1.59	1.79	0.76	(0.01, 4.25)	14	0.00
##Park J	179	0	0.00	0.41	0.00	(0.00, 4.29)	175	0.00
#Patcha R	355	1	0.28	0.54	0.45	(0.01, 2.51)	335	0.00
##Patel R B	347	1	0.29	0.51	0.49	(0.01, 2.72)	334	0.40

Table 3 *continued*

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
North Shore University Hospital, <i>continued</i>								
##Rehman A	3	0	0.00	0.85	0.00	(0.00,100.0)	3	0.00
##Reich D	365	1	0.27	0.52	0.46	(0.01, 2.54)	359	0.36
##Rosenband M	45	0	0.00	0.45	0.00	(0.00,15.48)	44	0.00
#Sassower M	34	0	0.00	0.37	0.00	(0.00,25.23)	34	0.00
##Schwartz R	217	0	0.00	0.49	0.00	(0.00, 3.00)	212	0.00
##Strizik B	483	3	0.62	0.83	0.65	(0.13, 1.89)	443	0.59
#Wachsman D	189	0	0.00	0.72	0.00	(0.00, 2.32)	181	0.00
#Witkes D	234	0	0.00	0.42	0.00	(0.00, 3.21)	231	0.00
##Zisfein J	209	3	1.44	0.68	1.82	(0.37, 5.31)	201	1.69
All Others	192	2	1.04	0.48	1.89	(0.21, 6.82)	184	1.64
TOTAL	11091	73	0.66	0.77	0.74	(0.58, 0.93)	9969	0.59
Rochester General Hospital								
Berlowitz M	524	7	1.34	1.02	1.13	(0.45, 2.33)	411	0.70
##Chockalingam S	522	4	0.77	0.87	0.76	(0.20, 1.94)	452	0.60
##Doling M	6	0	0.00	0.38	0.00	(0.00,100.0)	6	0.00
Fitzpatrick P	383	1	0.26	0.84	0.27	(0.00, 1.49)	281	0.00
#Gacioch G	436	6	1.38	0.90	1.32	(0.48, 2.87)	323	0.00
Mathew T M	577	9	1.56	0.88	1.53	(0.70, 2.90)	524	1.97 *
##Ong L S	2953	17	0.58	0.66	0.75	(0.44, 1.21)	2793	0.41
##Patel T	896	8	0.89	1.02	0.76	(0.33, 1.49)	838	0.55
Scortichini D	339	3	0.88	0.66	1.15	(0.23, 3.36)	326	0.90
#Stuver T	1025	11	1.07	1.11	0.83	(0.41, 1.49)	807	0.37
TOTAL	7661	66	0.86	0.84	0.88	(0.68, 1.12)	6761	0.55
SVCMC - St. Vincents								
#Acuna D	132	2	1.52	0.89	1.47	(0.17, 5.31)	104	1.12
#Bhambhani G	959	5	0.52	0.36	1.25	(0.40, 2.92)	957	1.04
Braff R	92	1	1.09	0.94	0.99	(0.01, 5.53)	71	1.51
#Chiu S	1	0	0.00	0.10	0.00	(0.00,100.0)	1	0.00
Chokshi A	345	0	0.00	0.36	0.00	(0.00, 2.54)	345	0.00
Coppola J	474	4	0.84	0.77	0.95	(0.26, 2.43)	404	0.93
#Dominguez A	123	2	1.63	0.99	1.42	(0.16, 5.13)	121	1.18
Elmqvist T	94	2	2.13	1.00	1.83	(0.21, 6.61)	73	2.14
#Farid A	7	0	0.00	0.34	0.00	(0.00,100.0)	7	0.00
Hasan C	131	3	2.29	0.47	4.23	(0.85,12.36)	129	3.20 *
##Kantrowitz N	96	0	0.00	0.94	0.00	(0.00, 3.51)	87	0.00
#Kwan T	419	0	0.00	0.41	0.00	(0.00, 1.83)	410	0.00
#Lee J	29	1	3.45	0.98	3.04	(0.04,16.90)	26	0.00
Nguyen T	363	4	1.10	1.06	0.90	(0.24, 2.30)	311	0.54
##Palta S	71	1	1.41	0.37	3.31	(0.04,18.40)	71	2.21
#Rentrop K	59	0	0.00	0.29	0.00	(0.00,18.55)	59	0.00
#Sehhat K	185	4	2.16	1.19	1.57	(0.42, 4.02)	151	1.16

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
SVCMC - St. Vincents, <i>continued</i>								
Seldon M	83	3	3.61	1.36	2.30	(0.46, 6.72)	62	6.84 *
Siddiqi R	227	0	0.00	0.44	0.00	(0.00, 3.15)	222	0.00
#Snyder S	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
Srivastava SK	95	1	1.05	0.70	1.30	(0.02, 7.22)	84	1.21
#Staniloae C	380	3	0.79	0.65	1.05	(0.21, 3.06)	318	0.40
#Tai Z	114	5	4.39	0.91	4.17 *	(1.34, 9.73)	105	3.00
All Others	245	4	1.63	0.78	1.80	(0.48, 4.60)	223	1.40
TOTAL	4725	45	0.95	0.65	1.26 *	(0.92, 1.69)	4342	0.99 *
South Nassau Communities Hospital								
#Berke A	10	0	0.00	2.72	0.00	(0.00,11.65)	.	.
##Freeman J	24	0	0.00	1.40	0.00	(0.00, 9.41)	15	0.00
#Hamby R	1	0	0.00	1.31	0.00	(0.00,100.0)	.	.
#Lituchy A	28	1	3.57	1.54	2.00	(0.03,11.14)	4	0.00
#Minadeo J	40	1	2.50	3.69	0.58	(0.01, 3.25)	.	.
#Petrossian G	15	0	0.00	2.03	0.00	(0.00,10.37)	3	0.00
##Rehman A	14	0	0.00	1.60	0.00	(0.00,14.17)	.	.
##Zisfein J	79	3	3.80	2.39	1.37	(0.28, 4.01)	29	0.00
TOTAL	211	5	2.37	2.34	0.87	(0.28, 2.04)	51	0.00
Southside Hospital								
##Caselnova R	22	0	0.00	1.20	0.00	(0.00,11.94)	.	.
##Deutsch E	36	1	2.78	1.05	2.27	(0.03,12.64)	15	0.00
##Hormozi S	41	0	0.00	1.47	0.00	(0.00, 5.27)	1	0.00
##Lee P J	43	1	2.33	1.29	1.56	(0.02, 8.68)	11	0.00
##Patel R B	69	0	0.00	0.90	0.00	(0.00, 5.10)	35	0.00
##Reich D	60	1	1.67	0.89	1.62	(0.02, 9.02)	22	0.00
All Others	2	0	0.00	1.95	0.00	(0.00,81.01)	.	.
TOTAL	273	3	1.10	1.10	0.87	(0.17, 2.53)	84	0.00
St. Catherine of Siena Hospital								
##Balchandani R	2	0	0.00	0.69	0.00	(0.00,100.0)	.	.
##Dervan J	2	0	0.00	3.92	0.00	(0.00,40.32)	.	.
##Deutsch E	11	0	0.00	0.98	0.00	(0.00,29.42)	.	.
##Grella R	2	0	0.00	2.51	0.00	(0.00,63.06)	.	.
##Hormozi S	19	0	0.00	2.51	0.00	(0.00, 6.63)	.	.
#Madrid A	3	0	0.00	0.62	0.00	(0.00,100.0)	.	.
##Patel R B	37	0	0.00	1.41	0.00	(0.00, 6.08)	.	.
##Rosenband M	11	0	0.00	1.58	0.00	(0.00,18.19)	.	.
#Shlofmitz R	4	0	0.00	0.69	0.00	(0.00,100.0)	.	.
#Tsiamtsiouris T	8	0	0.00	2.31	0.00	(0.00,17.09)	.	.
TOTAL	99	0	0.00	1.67	0.00	(0.00, 1.91)	.	.

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
St. Elizabeth Medical Center								
Kelberman M	547	5	0.91	0.82	0.96	(0.31, 2.24)	492	0.78
MacIsaac H	952	19	2.00	1.07	1.61 *	(0.97, 2.52)	826	1.31 *
Mathew T C	938	11	1.17	1.12	0.90	(0.45, 1.62)	836	0.51
Nassif R	586	7	1.19	0.97	1.06	(0.43, 2.19)	525	0.68
Patel A	525	2	0.38	0.89	0.37	(0.04, 1.33)	461	0.18
Varma P	528	5	0.95	0.80	1.02	(0.33, 2.38)	457	0.67
All Others	109	1	0.92	0.78	1.01	(0.01, 5.65)	98	0.80
TOTAL	4185	50	1.19	0.97	1.06	(0.79, 1.40)	3695	0.76
St. Francis Hospital								
Abittan M	480	2	0.42	0.56	0.64	(0.07, 2.31)	467	0.29
Arkonac B	435	6	1.38	1.11	1.07	(0.39, 2.33)	392	0.83
#Berke A	487	6	1.23	1.25	0.85	(0.31, 1.84)	435	0.64
##Deutsch E	42	1	2.38	0.67	3.08	(0.04,17.13)	41	3.45
Ezratty A	390	0	0.00	0.57	0.00	(0.00, 1.42)	370	0.00
##Friedman G	56	1	1.79	1.56	0.99	(0.01, 5.48)	52	1.00
##Gambino A	10	0	0.00	0.29	0.00	(0.00,100.0)	10	0.00
Goldman A B	289	3	1.04	0.70	1.28	(0.26, 3.74)	271	1.19
##Grunwald A	10	1	10.00	0.46	18.89	(0.25,100.0)	10	12.48
Gulotta R	335	4	1.19	0.72	1.43	(0.38, 3.66)	317	1.43
#Hamby R	213	0	0.00	0.63	0.00	(0.00, 2.35)	208	0.00
##Hormozi S	27	0	0.00	0.66	0.00	(0.00,17.79)	22	0.00
##Koss J	36	0	0.00	0.87	0.00	(0.00,10.06)	31	0.00
##Lee P J	63	0	0.00	0.27	0.00	(0.00,18.54)	62	0.00
#Lituchy A	644	4	0.62	0.73	0.73	(0.20, 1.88)	606	0.61
#Madrid A	274	2	0.73	0.79	0.80	(0.09, 2.87)	233	0.43
Mathew R	380	2	0.53	0.61	0.75	(0.08, 2.71)	374	0.64
#Minadeo J	303	6	1.98	1.17	1.46	(0.53, 3.18)	269	0.97
Oruci E	382	2	0.52	0.77	0.59	(0.07, 2.12)	375	0.30
Pappas T	350	1	0.29	0.52	0.47	(0.01, 2.62)	338	0.00
#Petrossian G	1613	13	0.81	0.88	0.79	(0.42, 1.35)	1516	0.61
Randall A	138	3	2.17	1.14	1.64	(0.33, 4.79)	136	1.23
##Rehman A	836	7	0.84	1.08	0.67	(0.27, 1.37)	754	0.32
##Reich D	31	0	0.00	0.42	0.00	(0.00,24.11)	30	0.00
##Schwartz R	1	0	0.00	1.43	0.00	(0.00,100.0)	1	0.00
#Shlofmitz R	1418	2	0.14	0.44	0.28	(0.03, 1.00)	1398	0.20
Timmermans R	172	1	0.58	0.64	0.78	(0.01, 4.33)	165	0.62
#Tsiamtsiouris T	620	6	0.97	0.70	1.19	(0.44, 2.60)	587	0.69
Venditto J	405	4	0.99	0.83	1.03	(0.28, 2.63)	386	0.47
#Wachsman D	6	0	0.00	0.12	0.00	(0.00,100.0)	6	0.00
##Zisfein J	115	0	0.00	0.47	0.00	(0.00, 5.84)	107	0.00
All Others	76	1	1.32	0.63	1.82	(0.02,10.10)	73	1.47
TOTAL	10637	78	0.73	0.77	0.82	(0.65, 1.02)	10042	0.57

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
St. Josephs Hospital								
#Alfaro-Franco C	86	0	0.00	0.70	0.00	(0.00, 5.27)	67	0.00
#Amin N	189	1	0.53	1.15	0.40	(0.01, 2.22)	149	0.00
#Bhan R	631	3	0.48	0.71	0.58	(0.12, 1.68)	576	0.55
#Caputo R	1274	19	1.49	1.00	1.28	(0.77, 2.01)	1132	1.04
Fischi M	237	0	0.00	0.97	0.00	(0.00, 1.37)	203	0.00
#Ford T	137	1	0.73	1.08	0.58	(0.01, 3.25)	109	0.00
##Giambartolomei A	668	9	1.35	1.09	1.07	(0.49, 2.02)	549	0.81
#Iskander A	458	3	0.66	1.08	0.52	(0.10, 1.53)	398	0.45
#Lozner E	93	0	0.00	0.78	0.00	(0.00, 4.36)	74	0.00
O'Hern M	374	4	1.07	1.09	0.84	(0.23, 2.16)	329	0.70
#Reger M	550	1	0.18	0.74	0.21	(0.00, 1.17)	481	0.21
#Simons A	971	6	0.62	0.83	0.65	(0.24, 1.40)	850	0.63
Walford G	519	6	1.16	0.78	1.27	(0.47, 2.77)	451	0.43
All Others	92	0	0.00	0.29	0.00	(0.00,11.72)	90	0.00
TOTAL	6279	53	0.84	0.91	0.80	(0.60, 1.04)	5458	0.61
St. Lukes Roosevelt Hospital-St. Lukes								
#Goldman A Y	3	0	0.00	0.62	0.00	(0.00,100.0)	3	0.00
#Hong M	169	3	1.78	0.96	1.59	(0.32, 4.66)	146	0.72
Leber R	232	1	0.43	0.97	0.38	(0.01, 2.14)	194	0.00
Palazzo A	176	1	0.57	0.67	0.73	(0.01, 4.05)	151	0.84
Simon C	380	10	2.63	1.60	1.42	(0.68, 2.61)	358	0.90
#Singh V	667	7	1.05	0.70	1.29	(0.52, 2.67)	605	0.74
##Slater J	91	2	2.20	0.78	2.43	(0.27, 8.78)	91	1.79
Tamis-Holland J	225	4	1.78	1.00	1.53	(0.41, 3.93)	187	0.60
##Wilentz J	267	1	0.37	0.49	0.66	(0.01, 3.70)	254	0.00
All Others	32	0	0.00	1.16	0.00	(0.00, 8.51)	22	0.00
TOTAL	2242	29	1.29	0.91	1.22	(0.82, 1.76)	2011	0.72
St. Peters Hospital								
#Bishop G	368	9	2.45	0.96	2.19 *	(1.00, 4.17)	270	1.94
##Brady S	102	0	0.00	1.01	0.00	(0.00, 3.07)	83	0.00
#Card H	166	0	0.00	0.66	0.00	(0.00, 2.88)	161	0.00
##Delago A	14	0	0.00	0.71	0.00	(0.00,31.83)	5	0.00
#Dempsey S	2	0	0.00	0.60	0.00	(0.00,100.0)	2	0.00
#Desantis J	189	1	0.53	0.65	0.70	(0.01, 3.89)	150	0.82
##Esper D	305	1	0.33	0.74	0.38	(0.00, 2.12)	270	0.42
#Garrand T	11	0	0.00	0.41	0.00	(0.00,70.16)	9	0.00
#Kufs W	11	0	0.00	1.05	0.00	(0.00,27.46)	8	0.00
#Macina A	4	1	25.00	3.14	6.86	(0.09,38.17)	.	.
#Marmulstein M	181	2	1.10	1.10	0.86	(0.10, 3.12)	122	1.01
Martinelli M	776	3	0.39	0.89	0.37	(0.08, 1.09)	632	0.29
##Papaleo R	51	0	0.00	0.44	0.00	(0.00,14.16)	44	0.00

Table 3 *continued*

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
St. Peters Hospital, <i>continued</i>								
##Papandrea L	276	3	1.09	0.66	1.43	(0.29, 4.17)	235	1.74
##Roccario E	733	6	0.82	0.91	0.77	(0.28, 1.68)	574	0.51
TOTAL	3189	26	0.82	0.85	0.82	(0.54, 1.21)	2565	0.62
Staten Island University Hospital- North								
#Acuna D	5	0	0.00	0.70	0.00	(0.00,90.79)	5	0.00
Duvvuri S	581	7	1.20	0.76	1.36	(0.55, 2.81)	539	1.10
#Farid A	374	1	0.27	0.43	0.53	(0.01, 2.97)	358	0.00
Homayuni A	409	0	0.00	0.59	0.00	(0.00, 1.32)	374	0.00
Malpeso J	358	6	1.68	0.51	2.81 *	(1.03, 6.11)	296	1.65
McCord D	509	3	0.59	0.45	1.13	(0.23, 3.30)	467	1.04
Mohan R	139	0	0.00	0.49	0.00	(0.00, 4.65)	123	0.00
Rouvelas P	107	1	0.93	0.81	1.00	(0.01, 5.56)	103	0.92
#Snyder S	202	1	0.50	0.58	0.74	(0.01, 4.10)	183	0.00
Swamy S	412	0	0.00	0.39	0.00	(0.00, 1.95)	391	0.00
Vazzana T	253	3	1.19	0.66	1.55	(0.31, 4.53)	226	1.48
Warchol A	215	0	0.00	0.72	0.00	(0.00, 2.06)	176	0.00
All Others	447	4	0.89	0.77	1.00	(0.27, 2.56)	393	0.71
TOTAL	4011	26	0.65	0.59	0.95	(0.62, 1.39)	3634	0.65
Strong Memorial Hospital								
##Chockalingam S	1	0	0.00	0.15	0.00	(0.00,100.0)	1	0.00
Cove C	570	11	1.93	0.94	1.77 *	(0.88, 3.17)	439	1.44
##Doling M	902	7	0.78	0.74	0.91	(0.36, 1.87)	797	0.66
Garringer J	209	1	0.48	0.73	0.57	(0.01, 3.15)	190	0.00
Gassler J	698	11	1.58	0.76	1.78 *	(0.89, 3.19)	572	1.21
#Ling F	620	5	0.81	0.89	0.78	(0.25, 1.82)	466	0.44
Narins C	802	13	1.62	0.98	1.43	(0.76, 2.45)	633	0.76
##Ong L S	9	0	0.00	0.95	0.00	(0.00,37.16)	9	0.00
##Patel T	61	0	0.00	0.73	0.00	(0.00, 7.14)	61	0.00
Pomerantz R	245	3	1.22	0.91	1.16	(0.23, 3.39)	155	0.85
All Others	2	0	0.00	0.15	0.00	(0.00,100.0)	2	0.00
TOTAL	4119	51	1.24	0.85	1.26 *	(0.94, 1.65)	3325	0.82
United Health Services - Wilson Hospital								
Ahmed O	358	5	1.40	1.36	0.89	(0.29, 2.07)	276	0.80
Jamal N	671	6	0.89	1.25	0.62	(0.23, 1.34)	574	0.15
Kashou H	479	4	0.84	0.85	0.85	(0.23, 2.17)	393	1.02
Rehman A U	388	6	1.55	1.14	1.17	(0.43, 2.56)	321	1.65
Stamato N	349	2	0.57	1.00	0.49	(0.06, 1.78)	271	0.69
Traverse P	443	3	0.68	1.43	0.41	(0.08, 1.19)	369	0.24
All Others	10	1	10.00	4.88	1.77	(0.02, 9.83)	5	0.00
TOTAL	2698	27	1.00	1.19	0.73	(0.48, 1.06)	2209	0.66

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Unity Hospital								
##Chockalingam S	7	0	0.00	1.31	0.00	(0.00,34.58)	.	.
##Doling M	1	0	0.00	0.45	0.00	(0.00,100.0)	.	.
#Gacioch G	1	0	0.00	0.67	0.00	(0.00,100.0)	.	.
#Ling F	1	0	0.00	2.27	0.00	(0.00,100.0)	.	.
##Ong L S	4	1	25.00	22.76	0.95	(0.01, 5.27)	.	.
##Patel T	133	1	0.75	2.67	0.24	(0.00, 1.35)	.	.
#Stuver T	6	0	0.00	3.60	0.00	(0.00,14.64)	.	.
TOTAL	153	2	1.31	3.14	0.36	(0.04, 1.30)	.	.
University Hospital - Brooklyn								
#Afflu E	215	1	0.47	0.47	0.86	(0.01, 4.78)	211	0.74
#Badero O	117	0	0.00	0.64	0.00	(0.00, 4.23)	116	0.00
Cavusoglu E	779	7	0.90	0.76	1.02	(0.41, 2.10)	738	0.89
Chadow H	376	8	2.13	0.88	2.08 *	(0.90, 4.11)	363	1.55 *
Feit A	712	3	0.42	0.69	0.53	(0.11, 1.54)	671	0.31
Jasty B	297	0	0.00	0.56	0.00	(0.00, 1.89)	294	0.00
##Jayasundera T	20	0	0.00	0.53	0.00	(0.00,30.10)	20	0.00
Marmur J	899	7	0.78	0.92	0.73	(0.29, 1.50)	869	0.50
##Palta S	60	0	0.00	0.82	0.00	(0.00, 6.47)	53	0.00
All Others	94	2	2.13	0.77	2.40	(0.27, 8.65)	93	1.79
TOTAL	3569	28	0.78	0.76	0.89	(0.59, 1.28)	3428	0.69
University Hospital - SUNY Upstate								
#Battaglia J	34	0	0.00	0.86	0.00	(0.00,10.87)	25	0.00
#Berkery W	9	0	0.00	0.43	0.00	(0.00,82.26)	6	0.00
Kozman H	648	17	2.62	1.48	1.53 *	(0.89, 2.44)	464	1.16
All Others	128	2	1.56	1.02	1.32	(0.15, 4.77)	98	0.00
TOTAL	819	19	2.32	1.37	1.46 *	(0.88, 2.28)	593	0.90
University Hospital - Stony Brook								
##Balchandani R	257	0	0.00	0.92	0.00	(0.00, 1.34)	221	0.00
#Brown D	44	1	2.27	1.61	1.22	(0.02, 6.78)	21	0.00
Chernilas J	453	6	1.32	1.26	0.91	(0.33, 1.97)	307	0.66
##Dervan J	565	6	1.06	0.83	1.10	(0.40, 2.40)	515	1.09
##Grella R	490	1	0.20	0.63	0.28	(0.00, 1.55)	452	0.24
Korlipara G	454	3	0.66	0.70	0.82	(0.16, 2.39)	423	0.25
Lawson W	636	9	1.42	1.03	1.18	(0.54, 2.24)	476	1.21
##Lederman S	166	1	0.60	0.76	0.69	(0.01, 3.82)	150	0.63
#Mani A	240	1	0.42	1.36	0.26	(0.00, 1.47)	174	0.00
Mirza H	228	4	1.75	1.21	1.25	(0.34, 3.20)	165	0.41
##Rosenband M	664	3	0.45	0.66	0.59	(0.12, 1.72)	645	0.46
Stys A	409	5	1.22	1.37	0.77	(0.25, 1.79)	286	0.41
All Others	291	1	0.34	1.02	0.29	(0.00, 1.62)	213	0.45
TOTAL	4897	41	0.84	0.95	0.76	(0.55, 1.03)	4048	0.53

Table 3 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Vassar Brothers Medical Center								
Gorwara S	573	5	0.87	0.96	0.78	(0.25, 1.83)	436	0.21
Jafar M	1063	7	0.66	0.88	0.64	(0.26, 1.33)	865	0.45
Kantaros L	571	1	0.18	0.93	0.16	(0.00, 0.90)	439	0.24
Yen M	224	3	1.34	0.71	1.63	(0.33, 4.77)	179	0.63
All Others	41	0	0.00	1.82	0.00	(0.00, 4.24)	37	0.00
TOTAL	2472	16	0.65	0.91	0.61	(0.35, 0.99)	1956	0.35
Westchester Medical Center								
#Charney R	38	0	0.00	0.39	0.00	(0.00,21.11)	38	0.00
Cohen M	354	2	0.56	0.93	0.52	(0.06, 1.89)	283	0.39
Hjemdahl-Monsen C	1365	8	0.59	0.93	0.55	(0.24, 1.08)	1167	0.34
Kalapatapu K	1652	13	0.79	0.95	0.72	(0.38, 1.23)	1370	0.66
#Messinger D	35	0	0.00	0.41	0.00	(0.00,21.91)	35	0.00
Pucillo A	867	6	0.69	0.78	0.77	(0.28, 1.67)	743	0.45
Weiss M	204	2	0.98	1.13	0.75	(0.08, 2.69)	165	0.00
All Others	257	7	2.72	1.22	1.93	(0.77, 3.98)	206	2.02
TOTAL	4772	38	0.80	0.92	0.74	(0.53, 1.02)	4007	0.54
Winthrop University Hospital								
##Angelopoulos P	135	2	1.48	0.94	1.36	(0.15, 4.90)	104	0.80
##Caselnova R	221	1	0.45	0.75	0.52	(0.01, 2.91)	211	0.44
##Deutsch E	37	0	0.00	0.59	0.00	(0.00,14.43)	37	0.00
##Gambino A	497	4	0.80	0.92	0.75	(0.20, 1.93)	446	0.57
##Lederman S	23	0	0.00	0.52	0.00	(0.00,26.23)	22	0.00
##Lee P J	12	0	0.00	0.26	0.00	(0.00,100.0)	12	0.00
Marzo K	666	0	0.00	0.59	0.00 **	(0.00, 0.81)	593	0.00
#Naidu S	33	0	0.00	0.83	0.00	(0.00,11.56)	25	0.00
##Park J	274	0	0.00	0.54	0.00	(0.00, 2.15)	252	0.00
##Patel R B	17	0	0.00	0.65	0.00	(0.00,28.53)	14	0.00
##Reich D	7	0	0.00	0.69	0.00	(0.00,65.93)	7	0.00
#Sassower M	586	4	0.68	0.72	0.81	(0.22, 2.09)	526	0.63
##Schwartz R	952	5	0.53	0.98	0.46	(0.15, 1.07)	892	0.39
#Witkes D	239	1	0.42	0.65	0.55	(0.01, 3.08)	220	0.61
All Others	252	3	1.19	0.92	1.12	(0.22, 3.27)	202	0.83
TOTAL	3951	20	0.51	0.79	0.55 **	(0.34, 0.85)	3563	0.43
Statewide Total	167752	1447	0.86				149079	0.62

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

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

Performed procedures in another NYS hospital.

Performed procedures in two or more other NYS hospitals.

Table 4 Summary Information for Cardiologists Practicing at More Than One Hospital, 2004-2006 Discharges.

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Acuna D	137	2	1.46	0.88	1.43	(0.16, 5.16)	109	1.05
SVMC- St. Vincents	132	2	1.52	0.89	1.47	(0.17, 5.31)	104	1.12
Staten Island Univ Hosp	5	0	0.00	0.70	0.00	(0.00,90.79)	5	0.00
Afflu E	232	1	0.43	0.45	0.83	(0.01, 4.61)	228	0.71
NY Methodist Hospital	17	0	0.00	0.22	0.00	(0.00,83.08)	17	0.00
Univ.Hosp-Brooklyn	215	1	0.47	0.47	0.86	(0.01, 4.78)	211	0.74
Alfaro-Franco C	245	1	0.41	0.52	0.68	(0.01, 3.77)	217	0.00
Crouse Hospital	159	1	0.63	0.42	1.28	(0.02, 7.12)	150	0.00
St. Josephs Hospital	86	0	0.00	0.70	0.00	(0.00, 5.27)	67	0.00
Amin N	424	2	0.47	0.94	0.43	(0.05, 1.57)	360	0.26
Crouse Hospital	235	1	0.43	0.77	0.48	(0.01, 2.66)	211	0.51
St. Josephs Hospital	189	1	0.53	1.15	0.40	(0.01, 2.22)	149	0.00
Angelopoulos P	169	2	1.18	0.85	1.20	(0.14, 4.34)	135	0.70
NYU Hospitals Center	7	0	0.00	0.44	0.00	(0.00,100.0)	7	0.00
North Shore Univ Hosp	27	0	0.00	0.49	0.00	(0.00,23.92)	24	0.00
Winthrop Univ. Hosp	135	2	1.48	0.94	1.36	(0.15, 4.90)	104	0.80
Attubato M	1052	9	0.86	0.95	0.78	(0.35, 1.48)	963	0.56
Bellevue Hospital Ctr	257	2	0.78	1.24	0.54	(0.06, 1.96)	231	0.00
NYU Hospitals Center	795	7	0.88	0.86	0.89	(0.36, 1.83)	732	0.74
Babaev A	375	2	0.53	0.67	0.69	(0.08, 2.50)	356	0.00
Bellevue Hospital Ctr	21	1	4.76	0.93	4.43	(0.06,24.67)	10	0.00
NYU Hospitals Center	354	1	0.28	0.65	0.38	(0.00, 2.09)	346	0.00
Badero O	201	0	0.00	0.49	0.00	(0.00, 3.22)	200	0.00
NY Methodist Hospital	84	0	0.00	0.28	0.00	(0.00,13.38)	84	0.00
Univ.Hosp-Brooklyn	117	0	0.00	0.64	0.00	(0.00, 4.23)	116	0.00
Bagga R	210	0	0.00	0.53	0.00	(0.00, 2.87)	197	0.00
Huntington Hospital	12	0	0.00	1.00	0.00	(0.00,26.47)	.	.
LIJ Medical Center	81	0	0.00	0.42	0.00	(0.00, 9.35)	81	0.00
North Shore Univ Hosp	117	0	0.00	0.55	0.00	(0.00, 4.90)	116	0.00
Balchandani R	264	0	0.00	0.91	0.00	(0.00, 1.32)	226	0.00
North Shore Univ Hosp	5	0	0.00	0.41	0.00	(0.00,100.0)	5	0.00
St. Catherine of Siena	2	0	0.00	0.69	0.00	(0.00,100.0)	.	.
Univ.Hosp-Stony Brook	257	0	0.00	0.92	0.00	(0.00, 1.34)	221	0.00
Battaglia J	964	12	1.24	0.64	1.69 *	(0.87, 2.95)	880	1.54 *
Crouse Hospital	930	12	1.29	0.63	1.78 *	(0.92, 3.10)	855	1.60 *
Univ.Hosp-SUNY Upstate	34	0	0.00	0.86	0.00	(0.00,10.87)	25	0.00
Berke A	497	6	1.21	1.28	0.81	(0.30, 1.76)	435	0.64
South Nassau Comm.Hosp	10	0	0.00	2.72	0.00	(0.00,11.65)	.	.
St. Francis Hospital	487	6	1.23	1.25	0.85	(0.31, 1.84)	435	0.64

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Berkery W	437	6	1.37	1.18	1.01	(0.37, 2.19)	369	1.11
Crouse Hospital	428	6	1.40	1.19	1.01	(0.37, 2.21)	363	1.12
Univ.Hosp-SUNY Upstate	9	0	0.00	0.43	0.00	(0.00,82.26)	6	0.00
Bhambhani G	1364	6	0.44	0.32	1.17	(0.43, 2.55)	1362	0.96
Beth Israel Med Ctr	405	1	0.25	0.24	0.89	(0.01, 4.93)	405	0.70
SVMC- St. Vincents	959	5	0.52	0.36	1.25	(0.40, 2.92)	957	1.04
Bhan R	636	3	0.47	0.71	0.57	(0.12, 1.68)	581	0.55
Crouse Hospital	5	0	0.00	0.21	0.00	(0.00,100.0)	5	0.00
St. Josephs Hospital	631	3	0.48	0.71	0.58	(0.12, 1.68)	576	0.55
Bishop G	385	9	2.34	0.94	2.14 *	(0.98, 4.06)	286	1.81
Albany Medical Center	17	0	0.00	0.54	0.00	(0.00,34.73)	16	0.00
St. Peters Hospital	368	9	2.45	0.96	2.19 *	(1.00, 4.17)	270	1.94
Brady S	703	7	1.00	0.90	0.95	(0.38, 1.96)	569	0.84
Albany Medical Center	599	7	1.17	0.88	1.14	(0.46, 2.36)	486	1.03
Glens Falls Hospital	2	0	0.00	2.58	0.00	(0.00,61.21)	.	.
St. Peters Hospital	102	0	0.00	1.01	0.00	(0.00, 3.07)	83	0.00
Brogno D	104	2	1.92	3.56	0.47	(0.05, 1.68)	7	0.00
Good Sam - Suffern	96	2	2.08	3.76	0.48	(0.05, 1.72)	.	.
NYP- Columbia Presby.	8	0	0.00	1.12	0.00	(0.00,35.32)	7	0.00
Brown D	177	2	1.13	1.30	0.75	(0.08, 2.72)	144	0.00
Beth Israel Med Ctr	133	1	0.75	1.19	0.54	(0.01, 3.03)	123	0.00
Univ.Hosp-Stony Brook	44	1	2.27	1.61	1.22	(0.02, 6.78)	21	0.00
Calandra S	678	2	0.29	0.77	0.33	(0.04, 1.20)	579	0.35
Mercy Hospital	422	2	0.47	0.84	0.49	(0.05, 1.75)	330	0.60
Millard Fillmore Hosp	256	0	0.00	0.64	0.00	(0.00, 1.92)	249	0.00
Caputo R	1327	20	1.51	1.00	1.30	(0.80, 2.01)	1180	0.99
Crouse Hospital	53	1	1.89	0.88	1.86	(0.02,10.32)	48	0.00
St. Josephs Hospital	1274	19	1.49	1.00	1.28	(0.77, 2.01)	1132	1.04
Card H	170	0	0.00	0.65	0.00	(0.00, 2.85)	165	0.00
Ellis Hospital	4	0	0.00	0.23	0.00	(0.00,100.0)	4	0.00
St. Peters Hospital	166	0	0.00	0.66	0.00	(0.00, 2.88)	161	0.00
Caselnova R	944	8	0.85	0.74	0.99	(0.43, 1.96)	847	0.83
Good Sam - West Islip	33	1	3.03	2.04	1.28	(0.02, 7.13)	.	.
Huntington Hospital	4	0	0.00	0.83	0.00	(0.00,95.08)	.	.
North Shore Univ Hosp	664	6	0.90	0.65	1.20	(0.44, 2.60)	636	0.98
Southside Hospital	22	0	0.00	1.20	0.00	(0.00,11.94)	.	.
Winthrop Univ. Hosp	221	1	0.45	0.75	0.52	(0.01, 2.91)	211	0.44
Chang J	1036	7	0.68	0.88	0.66	(0.26, 1.36)	931	0.35
NY Hospital - Queens	1034	7	0.68	0.88	0.66	(0.26, 1.36)	930	0.35
North Shore Univ Hosp	2	0	0.00	0.27	0.00	(0.00,100.0)	1	0.00

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Charney R	330	2	0.61	0.76	0.69	(0.08, 2.47)	320	0.32
NYP- Weill Cornell	292	2	0.68	0.81	0.73	(0.08, 2.63)	282	0.35
Westchester Med Ctr	38	0	0.00	0.39	0.00	(0.00,21.11)	38	0.00
Chiu S	148	0	0.00	0.32	0.00	(0.00, 6.76)	146	0.00
NY Hospital - Queens	147	0	0.00	0.32	0.00	(0.00, 6.77)	145	0.00
SVMC- St. Vincents	1	0	0.00	0.10	0.00	(0.00,100.0)	1	0.00
Chockalingam S	530	4	0.75	0.88	0.74	(0.20, 1.90)	453	0.60
Rochester General Hosp	522	4	0.77	0.87	0.76	(0.20, 1.94)	452	0.60
Strong Memorial Hosp	1	0	0.00	0.15	0.00	(0.00,100.0)	1	0.00
Unity Hospital	7	0	0.00	1.31	0.00	(0.00,34.58)	.	.
Collins M	981	8	0.82	0.89	0.79	(0.34, 1.56)	952	0.43
Lenox Hill Hospital	275	1	0.36	0.81	0.39	(0.01, 2.14)	264	0.00
NYP- Columbia Presby.	706	7	0.99	0.92	0.93	(0.37, 1.91)	688	0.55
Colombo A	47	0	0.00	0.65	0.00	(0.00,10.28)	47	0.00
Lenox Hill Hospital	12	0	0.00	0.35	0.00	(0.00,76.40)	12	0.00
NYP- Columbia Presby.	35	0	0.00	0.76	0.00	(0.00,11.88)	35	0.00
Corbelli J	690	9	1.30	0.93	1.22	(0.55, 2.31)	625	1.18
Buffalo General Hosp	4	0	0.00	1.46	0.00	(0.00,54.02)	.	.
Erie County Med Ctr	5	0	0.00	0.13	0.00	(0.00,100.0)	5	0.00
Millard Fillmore Hosp	681	9	1.32	0.93	1.23	(0.56, 2.33)	620	1.19
Dangas G	830	6	0.72	0.86	0.73	(0.26, 1.58)	782	0.60
Lenox Hill Hospital	226	4	1.77	0.83	1.85	(0.50, 4.73)	213	1.39
NYP- Columbia Presby.	604	2	0.33	0.87	0.33	(0.04, 1.18)	569	0.33
Delago A	1427	10	0.70	0.59	1.02	(0.49, 1.88)	1272	0.58
Albany Medical Center	1402	9	0.64	0.58	0.95	(0.44, 1.81)	1267	0.59
Glens Falls Hospital	11	1	9.09	1.83	4.28	(0.06,23.79)	.	.
St. Peters Hospital	14	0	0.00	0.71	0.00	(0.00,31.83)	5	0.00
Dempsey S	124	1	0.81	0.61	1.13	(0.01, 6.31)	118	0.91
Ellis Hospital	122	1	0.82	0.61	1.15	(0.02, 6.41)	116	0.93
St. Peters Hospital	2	0	0.00	0.60	0.00	(0.00,100.0)	2	0.00
Dervan J	570	6	1.05	0.84	1.08	(0.40, 2.36)	518	1.09
North Shore Univ Hosp	3	0	0.00	0.14	0.00	(0.00,100.0)	3	0.00
St. Catherine of Siena	2	0	0.00	3.92	0.00	(0.00,40.32)	.	.
Univ.Hosp-Stony Brook	565	6	1.06	0.83	1.10	(0.40, 2.40)	515	1.09
Desantis J	225	2	0.89	0.98	0.78	(0.09, 2.81)	150	0.82
Glens Falls Hospital	36	1	2.78	2.72	0.88	(0.01, 4.90)	.	.
St. Peters Hospital	189	1	0.53	0.65	0.70	(0.01, 3.89)	150	0.82

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Deutsch E	713	5	0.70	0.62	0.98	(0.32, 2.29)	649	0.78
Good Sam - West Islip	26	0	0.00	1.83	0.00	(0.00, 6.66)	.	.
North Shore Univ Hosp	561	3	0.53	0.52	0.88	(0.18, 2.58)	556	0.67
Southside Hospital	36	1	2.78	1.05	2.27	(0.03,12.64)	15	0.00
St. Catherine of Siena	11	0	0.00	0.98	0.00	(0.00,29.42)	.	.
St. Francis Hospital	42	1	2.38	0.67	3.08	(0.04,17.13)	41	3.45
Winthrop Univ. Hosp	37	0	0.00	0.59	0.00	(0.00,14.43)	37	0.00
Doling M	909	7	0.77	0.73	0.90	(0.36, 1.86)	803	0.65
Rochester General Hosp	6	0	0.00	0.38	0.00	(0.00,100.0)	6	0.00
Strong Memorial Hosp	902	7	0.78	0.74	0.91	(0.36, 1.87)	797	0.66
Unity Hospital	1	0	0.00	0.45	0.00	(0.00,100.0)	.	.
Dominguez A	607	10	1.65	0.93	1.52	(0.73, 2.80)	601	1.16
Lenox Hill Hospital	484	8	1.65	0.92	1.55	(0.67, 3.05)	480	1.15
SVMC- St. Vincents	123	2	1.63	0.99	1.42	(0.16, 5.13)	121	1.18
Emerson R	363	3	0.83	1.30	0.55	(0.11, 1.60)	236	0.36
Erie County Med Ctr	61	2	3.28	2.73	1.04	(0.12, 3.74)	37	2.09
Mercy Hospital	301	1	0.33	1.02	0.28	(0.00, 1.56)	198	0.00
Millard Fillmore Hosp	1	0	0.00	0.12	0.00	(0.00,100.0)	1	0.00
Esper D	544	5	0.92	0.97	0.82	(0.26, 1.91)	440	0.80
Albany Medical Center	231	4	1.73	1.22	1.22	(0.33, 3.13)	170	1.47
Glens Falls Hospital	8	0	0.00	2.13	0.00	(0.00,18.57)	.	.
St. Peters Hospital	305	1	0.33	0.74	0.38	(0.00, 2.12)	270	0.42
Farid A	381	1	0.26	0.43	0.53	(0.01, 2.93)	365	0.00
SVMC- St. Vincents	7	0	0.00	0.34	0.00	(0.00,100.0)	7	0.00
Staten Island Univ Hosp	374	1	0.27	0.43	0.53	(0.01, 2.97)	358	0.00
Feit F	1097	1	0.09	0.57	0.14 **	(0.00, 0.77)	1037	0.12
Bellevue Hospital Ctr	277	0	0.00	0.54	0.00	(0.00, 2.12)	263	0.00
NYU Hospitals Center	820	1	0.12	0.58	0.18	(0.00, 1.01)	774	0.17
Ford T	309	2	0.65	0.77	0.73	(0.08, 2.62)	261	0.00
Crouse Hospital	172	1	0.58	0.52	0.96	(0.01, 5.35)	152	0.00
St. Josephs Hospital	137	1	0.73	1.08	0.58	(0.01, 3.25)	109	0.00
Freeman J	1119	10	0.89	1.04	0.74	(0.36, 1.37)	907	1.02
Huntington Hospital	1	0	0.00	1.65	0.00	(0.00,100.0)	.	.
LIJ Medical Center	30	0	0.00	2.21	0.00	(0.00, 4.78)	5	0.00
North Shore Univ Hosp	1064	10	0.94	1.00	0.81	(0.39, 1.50)	887	1.04
South Nassau Comm. Hosp	24	0	0.00	1.40	0.00	(0.00, 9.41)	15	0.00
Friedman G	637	11	1.73	0.98	1.52	(0.76, 2.72)	583	1.29
LIJ Medical Center	452	5	1.11	0.97	0.99	(0.32, 2.30)	415	0.87
NY Hospital - Queens	20	0	0.00	0.74	0.00	(0.00,21.35)	18	0.00
North Shore Univ Hosp	109	5	4.59	0.79	5.01 *	(1.61,11.69)	98	3.41 *
St. Francis Hospital	56	1	1.79	1.56	0.99	(0.01, 5.48)	52	1.00

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Gacioch G	437	6	1.37	0.90	1.31	(0.48, 2.86)	323	0.00
Rochester General Hosp	436	6	1.38	0.90	1.32	(0.48, 2.87)	323	0.00
Unity Hospital	1	0	0.00	0.67	0.00	(0.00,100.0)	.	.
Gambino A	616	5	0.81	0.82	0.85	(0.27, 1.99)	561	0.68
Huntington Hospital	2	0	0.00	0.87	0.00	(0.00,100.0)	.	.
North Shore Univ Hosp	107	1	0.93	0.40	2.00	(0.03,11.15)	105	1.61
St. Francis Hospital	10	0	0.00	0.29	0.00	(0.00,100.0)	10	0.00
Winthrop Univ. Hosp	497	4	0.80	0.92	0.75	(0.20, 1.93)	446	0.57
Garrand T	374	3	0.80	0.98	0.70	(0.14, 2.06)	279	1.01
Champ.Valley Phys Hosp	363	3	0.83	1.00	0.71	(0.14, 2.08)	270	1.04
St. Peters Hospital	11	0	0.00	0.41	0.00	(0.00,70.16)	9	0.00
Geizhals M	499	5	1.00	0.58	1.50	(0.48, 3.51)	492	1.18
Lenox Hill Hospital	93	1	1.08	0.51	1.82	(0.02,10.14)	93	1.21
NY Hospital - Queens	360	3	0.83	0.58	1.25	(0.25, 3.65)	355	1.02
NYP- Weill Cornell	46	1	2.17	0.71	2.66	(0.03,14.79)	44	2.14
Gelormini J	560	5	0.89	0.95	0.81	(0.26, 1.89)	481	0.37
Mercy Hospital	349	4	1.15	1.03	0.96	(0.26, 2.46)	286	0.31
Millard Fillmore Hosp	211	1	0.47	0.82	0.50	(0.01, 2.76)	195	0.47
Giambartolomei A	686	9	1.31	1.08	1.04	(0.48, 1.98)	564	0.79
Champ.Valley Phys Hosp	1	0	0.00	9.69	0.00	(0.00,32.64)	1	0.00
Crouse Hospital	17	0	0.00	0.30	0.00	(0.00,62.69)	14	0.00
St. Josephs Hospital	668	9	1.35	1.09	1.07	(0.49, 2.02)	549	0.81
Goldman A Y	421	6	1.43	0.86	1.42	(0.52, 3.10)	401	0.54
Montefiore - Moses	418	6	1.44	0.87	1.43	(0.52, 3.12)	398	0.54
St. Lukes at St. Lukes	3	0	0.00	0.62	0.00	(0.00,100.0)	3	0.00
Gowda R	363	9	2.48	1.48	1.44	(0.66, 2.74)	326	1.39
Beth Israel Med Ctr	361	9	2.49	1.48	1.45	(0.66, 2.76)	326	1.39
Long Island Coll. Hosp	2	0	0.00	1.94	0.00	(0.00,81.44)	.	.
Green S	822	8	0.97	1.03	0.82	(0.35, 1.61)	661	0.31
LIJ Medical Center	15	0	0.00	2.44	0.00	(0.00, 8.66)	1	0.00
North Shore Univ Hosp	807	8	0.99	1.00	0.85	(0.37, 1.68)	660	0.31
Grella R	497	1	0.20	0.63	0.27	(0.00, 1.52)	457	0.24
North Shore Univ Hosp	5	0	0.00	0.18	0.00	(0.00,100.0)	5	0.00
St. Catherine of Siena	2	0	0.00	2.51	0.00	(0.00,63.06)	.	.
Univ.Hosp-Stony Brook	490	1	0.20	0.63	0.28	(0.00, 1.55)	452	0.24
Grose R	451	4	0.89	0.74	1.04	(0.28, 2.65)	431	0.46
Montefiore - Moses	167	2	1.20	0.75	1.38	(0.15, 4.98)	153	0.00
NYP- Columbia Presby.	284	2	0.70	0.73	0.83	(0.09, 3.00)	278	0.64

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Grunwald A	679	6	0.88	0.98	0.77	(0.28, 1.69)	624	0.51
LIJ Medical Center	558	4	0.72	0.92	0.67	(0.18, 1.72)	517	0.32
NY Hospital - Queens	21	0	0.00	0.92	0.00	(0.00,16.38)	20	0.00
North Shore Univ Hosp	90	1	1.11	1.46	0.66	(0.01, 3.65)	77	0.80
St. Francis Hospital	10	1	10.00	0.46	18.89	(0.25,100.0)	10	12.48
Halkin A	345	3	0.87	0.95	0.79	(0.16, 2.30)	312	0.53
Jamaica Hosp Med Ctr	1	0	0.00	1.66	0.00	(0.00,100.0)	.	.
Lenox Hill Hospital	344	3	0.87	0.95	0.79	(0.16, 2.31)	312	0.53
Hamby R	214	0	0.00	0.64	0.00	(0.00, 2.33)	208	0.00
South Nassau Comm.Hosp	1	0	0.00	1.31	0.00	(0.00,100.0)	.	.
St. Francis Hospital	213	0	0.00	0.63	0.00	(0.00, 2.35)	208	0.00
Haq N	482	2	0.41	0.84	0.43	(0.05, 1.55)	409	0.21
Buffalo General Hosp	1	0	0.00	0.56	0.00	(0.00,100.0)	.	.
Mercy Hospital	410	2	0.49	0.88	0.48	(0.05, 1.73)	342	0.24
Millard Fillmore Hosp	71	0	0.00	0.60	0.00	(0.00, 7.45)	67	0.00
Hogan R	754	6	0.80	0.78	0.88	(0.32, 1.93)	623	0.19
Albany Medical Center	348	1	0.29	0.44	0.57	(0.01, 3.16)	345	0.40
Ellis Hospital	273	0	0.00	0.56	0.00	(0.00, 2.07)	269	0.00
Glens Falls Hospital	133	5	3.76	2.11	1.54	(0.50, 3.59)	9	0.00
Hong M	569	9	1.58	1.57	0.87	(0.40, 1.65)	496	0.56
NYP- Weill Cornell	400	6	1.50	1.83	0.71	(0.26, 1.54)	350	0.53
St. Lukes at St. Lukes	169	3	1.78	0.96	1.59	(0.32, 4.66)	146	0.72
Hormozi S	511	3	0.59	0.82	0.62	(0.12, 1.81)	400	0.63
Good Sam - West Islip	41	1	2.44	2.77	0.76	(0.01, 4.23)	.	.
LIJ Medical Center	3	0	0.00	0.36	0.00	(0.00,100.0)	3	0.00
North Shore Univ Hosp	380	2	0.53	0.47	0.97	(0.11, 3.49)	374	0.68
Southside Hospital	41	0	0.00	1.47	0.00	(0.00, 5.27)	1	0.00
St. Catherine of Siena	19	0	0.00	2.51	0.00	(0.00, 6.63)	.	.
St. Francis Hospital	27	0	0.00	0.66	0.00	(0.00,17.79)	22	0.00
Irobunda C	124	1	0.81	0.63	1.11	(0.01, 6.16)	112	1.11
M. I. Basset Hospital	1	0	0.00	0.06	0.00	(0.00,100.0)	1	0.00
NYP- Columbia Presby.	123	1	0.81	0.63	1.11	(0.01, 6.16)	111	1.11
Iskander A	465	3	0.65	1.07	0.52	(0.10, 1.51)	405	0.44
Crouse Hospital	7	0	0.00	0.54	0.00	(0.00,84.09)	7	0.00
St. Josephs Hospital	458	3	0.66	1.08	0.52	(0.10, 1.53)	398	0.45
Jauhar R	1183	9	0.76	0.93	0.71	(0.32, 1.34)	994	0.67
Huntington Hospital	2	0	0.00	0.77	0.00	(0.00,100.0)	.	.
LIJ Medical Center	1147	8	0.70	0.91	0.66	(0.28, 1.30)	991	0.67
North Shore Univ Hosp	34	1	2.94	1.58	1.61	(0.02, 8.95)	3	0.00

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Jayasundera T	622	2	0.32	0.51	0.55	(0.06, 1.97)	610	0.44
Lenox Hill Hospital	77	0	0.00	0.48	0.00	(0.00, 8.50)	76	0.00
Mount Sinai Hospital	525	2	0.38	0.51	0.64	(0.07, 2.32)	514	0.52
Univ.Hosp-Brooklyn	20	0	0.00	0.53	0.00	(0.00,30.10)	20	0.00
Johnson M	405	2	0.49	0.60	0.71	(0.08, 2.55)	387	0.61
Montefiore - Moses	295	2	0.68	0.64	0.91	(0.10, 3.28)	280	0.83
NYP- Columbia Presby.	110	0	0.00	0.49	0.00	(0.00, 5.84)	107	0.00
Kamran M	721	2	0.28	0.73	0.33	(0.04, 1.19)	568	0.00
City Hosp at Elmhurst	145	2	1.38	1.48	0.80	(0.09, 2.90)	14	0.00
Mount Sinai Hospital	576	0	0.00	0.54	0.00	(0.00, 1.03)	554	0.00
Kantrowitz N	545	5	0.92	0.82	0.97	(0.31, 2.26)	489	0.84
Beth Israel Med Ctr	405	4	0.99	0.58	1.46	(0.39, 3.75)	402	1.11
Long Island Coll. Hosp	44	1	2.27	2.72	0.72	(0.01, 4.02)	.	.
SVMC- St. Vincents	96	0	0.00	0.94	0.00	(0.00, 3.51)	87	0.00
Kaplan B	1402	10	0.71	1.01	0.61	(0.29, 1.12)	1235	0.57
Huntington Hospital	1	0	0.00	0.67	0.00	(0.00,100.0)	.	.
LIJ Medical Center	1354	10	0.74	0.97	0.65	(0.31, 1.20)	1231	0.57
North Shore Univ Hosp	47	0	0.00	1.92	0.00	(0.00, 3.50)	4	0.00
Katz S	781	4	0.51	0.76	0.58	(0.16, 1.48)	687	0.51
LIJ Medical Center	17	0	0.00	1.23	0.00	(0.00,15.13)	3	0.00
North Shore Univ Hosp	764	4	0.52	0.75	0.60	(0.16, 1.53)	684	0.51
Keller N	200	1	0.50	1.21	0.36	(0.00, 1.98)	170	0.00
Bellevue Hospital Ctr	192	1	0.52	1.18	0.38	(0.00, 2.13)	166	0.00
NYU Hospitals Center	8	0	0.00	2.11	0.00	(0.00,18.75)	4	0.00
Kesanakurthy S	352	1	0.28	0.66	0.37	(0.00, 2.08)	348	0.29
Lenox Hill Hospital	208	0	0.00	0.64	0.00	(0.00, 2.39)	205	0.00
NYP- Columbia Presby.	144	1	0.69	0.69	0.87	(0.01, 4.86)	143	0.65
Kim M	1517	17	1.12	1.12	0.86	(0.50, 1.38)	1416	0.69
City Hosp at Elmhurst	25	2	8.00	1.44	4.81	(0.54,17.36)	.	.
Mount Sinai Hospital	1492	15	1.01	1.12	0.78	(0.43, 1.28)	1416	0.69
Koss J	629	4	0.64	0.88	0.62	(0.17, 1.59)	574	0.32
LIJ Medical Center	507	3	0.59	0.86	0.59	(0.12, 1.73)	469	0.38
NY Hospital - Queens	8	0	0.00	0.34	0.00	(0.00,100.0)	8	0.00
North Shore Univ Hosp	78	1	1.28	1.07	1.03	(0.01, 5.72)	66	0.00
St. Francis Hospital	36	0	0.00	0.87	0.00	(0.00,10.06)	31	0.00
Kovar L	52	1	1.92	4.47	0.37	(0.00, 2.06)	3	0.00
Good Sam - Suffern	49	1	2.04	4.73	0.37	(0.00, 2.07)	.	.
NYP- Columbia Presby.	3	0	0.00	0.26	0.00	(0.00,100.0)	3	0.00

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Kreps E	502	8	1.59	1.15	1.19	(0.51, 2.35)	479	0.70
Lenox Hill Hospital	168	2	1.19	0.96	1.07	(0.12, 3.86)	161	0.63
NYP- Columbia Presby.	334	6	1.80	1.25	1.24	(0.45, 2.70)	318	0.73
Krishnan P	505	11	2.18	1.22	1.54	(0.77, 2.75)	435	1.67 *
City Hosp at Elmhurst	27	0	0.00	2.42	0.00	(0.00, 4.85)	.	.
Mount Sinai Hospital	478	11	2.30	1.15	1.72	(0.86, 3.08)	435	1.67 *
Kufs W	154	1	0.65	0.64	0.88	(0.01, 4.89)	144	0.72
Ellis Hospital	143	1	0.70	0.61	1.00	(0.01, 5.54)	136	0.79
St. Peters Hospital	11	0	0.00	1.05	0.00	(0.00,27.46)	8	0.00
Kwan T	613	0	0.00	0.38	0.00	(0.00, 1.35)	602	0.00
Beth Israel Med Ctr	194	0	0.00	0.31	0.00	(0.00, 5.23)	192	0.00
SVMC- St. Vincents	419	0	0.00	0.41	0.00	(0.00, 1.83)	410	0.00
Lasic Z	433	1	0.23	0.82	0.24	(0.00, 1.35)	385	0.00
Jamaica Hosp Med Ctr	11	0	0.00	1.17	0.00	(0.00,24.67)	.	.
Lenox Hill Hospital	422	1	0.24	0.81	0.25	(0.00, 1.40)	385	0.00
Lederman S	422	4	0.95	0.69	1.19	(0.32, 3.05)	397	1.09
North Shore Univ Hosp	233	3	1.29	0.65	1.70	(0.34, 4.96)	225	1.54
Univ.Hosp-Stony Brook	166	1	0.60	0.76	0.69	(0.01, 3.82)	150	0.63
Winthrop Univ. Hosp	23	0	0.00	0.52	0.00	(0.00,26.23)	22	0.00
Lee A	732	7	0.96	1.19	0.69	(0.28, 1.43)	563	0.53
LIJ Medical Center	24	0	0.00	2.40	0.00	(0.00, 5.50)	2	0.00
North Shore Univ Hosp	708	7	0.99	1.15	0.74	(0.30, 1.53)	561	0.53
Lee J	318	3	0.94	0.58	1.40	(0.28, 4.08)	314	0.72
Mount Sinai Hospital	289	2	0.69	0.54	1.10	(0.12, 3.97)	288	0.77
SVMC- St. Vincents	29	1	3.45	0.98	3.04	(0.04,16.90)	26	0.00
Lee P J	861	6	0.70	0.66	0.92	(0.34, 2.00)	757	0.56
Good Sam - West Islip	64	2	3.13	2.18	1.24	(0.14, 4.47)	.	.
LIJ Medical Center	11	1	9.09	0.52	14.98	(0.20,83.34)	11	8.31
North Shore Univ Hosp	668	2	0.30	0.51	0.50	(0.06, 1.81)	661	0.41
Southside Hospital	43	1	2.33	1.29	1.56	(0.02, 8.68)	11	0.00
St. Francis Hospital	63	0	0.00	0.27	0.00	(0.00,18.54)	62	0.00
Winthrop Univ. Hosp	12	0	0.00	0.26	0.00	(0.00,100.0)	12	0.00
Leon M	505	6	1.19	0.71	1.45	(0.53, 3.15)	494	1.13
Lenox Hill Hospital	178	1	0.56	0.52	0.93	(0.01, 5.15)	174	0.70
NYP- Columbia Presby.	327	5	1.53	0.81	1.63	(0.53, 3.81)	320	1.29
Ling F	621	5	0.81	0.89	0.78	(0.25, 1.81)	466	0.44
Strong Memorial Hosp	620	5	0.81	0.89	0.78	(0.25, 1.82)	466	0.44
Unity Hospital	1	0	0.00	2.27	0.00	(0.00,100.0)	.	.

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Lituchy A	672	5	0.74	0.76	0.84	(0.27, 1.96)	610	0.61
South Nassau Comm.Hosp	28	1	3.57	1.54	2.00	(0.03,11.14)	4	0.00
St. Francis Hospital	644	4	0.62	0.73	0.73	(0.20, 1.88)	606	0.61
Lozner E	275	1	0.36	1.07	0.29	(0.00, 1.63)	230	0.49
Crouse Hospital	182	1	0.55	1.22	0.39	(0.01, 2.16)	156	0.70
St. Josephs Hospital	93	0	0.00	0.78	0.00	(0.00, 4.36)	74	0.00
Macina A	110	1	0.91	1.57	0.50	(0.01, 2.77)	48	0.00
Albany Medical Center	106	0	0.00	1.52	0.00	(0.00, 1.97)	48	0.00
St. Peters Hospital	4	1	25.00	3.14	6.86	(0.09,38.17)	.	.
Madrid A	277	2	0.72	0.79	0.79	(0.09, 2.85)	233	0.43
St. Catherine of Siena	3	0	0.00	0.62	0.00	(0.00,100.0)	.	.
St. Francis Hospital	274	2	0.73	0.79	0.80	(0.09, 2.87)	233	0.43
Mani A	448	5	1.12	1.27	0.76	(0.24, 1.76)	334	0.43
Albany Medical Center	208	4	1.92	1.17	1.41	(0.38, 3.62)	160	1.22
Univ.Hosp-Stony Brook	240	1	0.42	1.36	0.26	(0.00, 1.47)	174	0.00
Marchant D	549	5	0.91	1.01	0.78	(0.25, 1.82)	405	0.88
Huntington Hospital	1	0	0.00	0.51	0.00	(0.00,100.0)	.	.
LIJ Medical Center	28	0	0.00	1.67	0.00	(0.00, 6.79)	1	0.00
North Shore Univ Hosp	520	5	0.96	0.97	0.85	(0.27, 1.99)	404	0.88
Marmulstein M	182	2	1.10	1.10	0.86	(0.10, 3.12)	123	1.00
Albany Medical Center	1	0	0.00	0.06	0.00	(0.00,100.0)	1	0.00
St. Peters Hospital	181	2	1.10	1.10	0.86	(0.10, 3.12)	122	1.01
Masud A	621	4	0.64	0.70	0.80	(0.22, 2.05)	586	0.54
Buffalo General Hosp	317	0	0.00	0.48	0.00	(0.00, 2.08)	308	0.00
Millard Fillmore Hosp	304	4	1.32	0.92	1.23	(0.33, 3.16)	278	0.92
Mehran R	242	3	1.24	0.73	1.46	(0.29, 4.26)	226	0.52
Lenox Hill Hospital	30	0	0.00	1.35	0.00	(0.00, 7.83)	28	0.00
NYP- Columbia Presby.	212	3	1.42	0.65	1.89	(0.38, 5.52)	198	0.68
Menzies D	197	3	1.52	1.05	1.25	(0.25, 3.64)	162	0.48
M. I. Basset Hospital	195	3	1.54	1.03	1.29	(0.26, 3.78)	160	0.50
NYP- Columbia Presby.	2	0	0.00	3.77	0.00	(0.00,41.98)	2	0.00
Messinger D	267	0	0.00	0.93	0.00	(0.00, 1.27)	256	0.00
NYP- Weill Cornell	232	0	0.00	1.01	0.00	(0.00, 1.35)	221	0.00
Westchester Med Ctr	35	0	0.00	0.41	0.00	(0.00,21.91)	35	0.00
Minadeo J	343	7	2.04	1.46	1.20	(0.48, 2.48)	269	0.97
South Nassau Comm.Hosp	40	1	2.50	3.69	0.58	(0.01, 3.25)	.	.
St. Francis Hospital	303	6	1.98	1.17	1.46	(0.53, 3.18)	269	0.97

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Morris W	1228	9	0.73	0.92	0.69	(0.31, 1.31)	1117	0.57
Buffalo General Hosp	531	5	0.94	0.81	1.01	(0.32, 2.35)	504	0.69
Mercy Hospital	360	2	0.56	1.15	0.42	(0.05, 1.50)	290	0.30
Millard Fillmore Hosp	337	2	0.59	0.85	0.61	(0.07, 2.19)	323	0.62
Moses J	1983	11	0.55	0.55	0.87	(0.44, 1.56)	1983	0.64
Lenox Hill Hospital	484	4	0.83	0.53	1.36	(0.36, 3.47)	484	0.98
NYP- Columbia Presby.	1499	7	0.47	0.55	0.73	(0.29, 1.50)	1499	0.53
Moussa I	944	6	0.64	0.77	0.71	(0.26, 1.54)	911	0.59
Lenox Hill Hospital	329	2	0.61	0.73	0.72	(0.08, 2.59)	322	0.56
NYP- Columbia Presby.	615	4	0.65	0.80	0.71	(0.19, 1.81)	589	0.61
Musso J	78	0	0.00	0.36	0.00	(0.00,11.32)	76	0.00
LIJ Medical Center	6	0	0.00	0.58	0.00	(0.00,90.87)	5	0.00
North Shore Univ Hosp	72	0	0.00	0.34	0.00	(0.00,12.93)	71	0.00
Naidu S	518	11	2.12	1.30	1.41	(0.70, 2.52)	440	0.91
NYP- Weill Cornell	485	11	2.27	1.33	1.47	(0.73, 2.63)	415	0.94
Winthrop Univ. Hosp	33	0	0.00	0.83	0.00	(0.00,11.56)	25	0.00
Nguyen-Ho P	202	3	1.49	1.26	1.02	(0.20, 2.97)	178	0.39
Buffalo General Hosp	2	0	0.00	1.51	0.00	(0.00,100.0)	1	0.00
Millard Fillmore Hosp	200	3	1.50	1.26	1.03	(0.21, 3.00)	177	0.39
Ong L S	2966	18	0.61	0.69	0.76	(0.45, 1.20)	2802	0.41
Rochester General Hosp	2953	17	0.58	0.66	0.75	(0.44, 1.21)	2793	0.41
Strong Memorial Hosp	9	0	0.00	0.95	0.00	(0.00,37.16)	9	0.00
Unity Hospital	4	1	25.00	22.76	0.95	(0.01, 5.27)	.	.
Ong L Y	931	1	0.11	0.97	0.10 **	(0.00, 0.53)	819	0.00**
LIJ Medical Center	17	0	0.00	2.84	0.00	(0.00, 6.55)	2	0.00
North Shore Univ Hosp	914	1	0.11	0.93	0.10 **	(0.00, 0.56)	817	0.00 **
Padmanabhan V	204	1	0.49	0.89	0.47	(0.01, 2.63)	183	0.00
LIJ Medical Center	7	0	0.00	1.07	0.00	(0.00,42.22)	7	0.00
North Shore Univ Hosp	197	1	0.51	0.89	0.49	(0.01, 2.75)	176	0.00
Palta S	175	1	0.57	0.64	0.77	(0.01, 4.26)	168	0.70
NY Methodist Hospital	44	0	0.00	0.86	0.00	(0.00, 8.38)	44	0.00
SVMC- St. Vincents	71	1	1.41	0.37	3.31	(0.04,18.40)	71	2.21
Univ.Hosp-Brooklyn	60	0	0.00	0.82	0.00	(0.00, 6.47)	53	0.00
Papaleo R	350	4	1.14	0.65	1.53	(0.41, 3.91)	304	0.99
Albany Medical Center	293	4	1.37	0.65	1.80	(0.48, 4.61)	260	1.11
Glens Falls Hospital	6	0	0.00	1.96	0.00	(0.00,26.88)	.	.
St. Peters Hospital	51	0	0.00	0.44	0.00	(0.00,14.16)	44	0.00

Table 4 continued

	Cases	Deaths	All Cases				Non-Emergency	
			OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Papandrea L	323	3	0.93	0.76	1.06	(0.21, 3.08)	260	1.54
Albany Medical Center	46	0	0.00	1.38	0.00	(0.00, 4.99)	25	0.00
Glens Falls Hospital	1	0	0.00	0.53	0.00	(0.00,100.0)	.	.
St. Peters Hospital	276	3	1.09	0.66	1.43	(0.29, 4.17)	235	1.74
Park C	743	11	1.48	1.31	0.98	(0.49, 1.75)	571	0.67
Huntington Hospital	1	0	0.00	0.74	0.00	(0.00,100.0)	.	.
LIJ Medical Center	679	10	1.47	1.26	1.00	(0.48, 1.85)	557	0.67
North Shore Univ Hosp	63	1	1.59	1.79	0.76	(0.01, 4.25)	14	0.00
Park J	465	0	0.00	0.48	0.00	(0.00, 1.42)	439	0.00
LIJ Medical Center	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
NY Hospital - Queens	11	0	0.00	0.18	0.00	(0.00,100.0)	11	0.00
North Shore Univ Hosp	179	0	0.00	0.41	0.00	(0.00, 4.29)	175	0.00
Winthrop Univ. Hosp	274	0	0.00	0.54	0.00	(0.00, 2.15)	252	0.00
Patcha R	386	2	0.52	0.60	0.75	(0.08, 2.71)	335	0.00
Huntington Hospital	31	1	3.23	1.26	2.22	(0.03,12.32)	.	.
North Shore Univ Hosp	355	1	0.28	0.54	0.45	(0.01, 2.51)	335	0.00
Patel R B	525	3	0.57	0.79	0.62	(0.13, 1.82)	383	0.37
Good Sam - West Islip	55	2	3.64	2.08	1.51	(0.17, 5.45)	.	.
North Shore Univ Hosp	347	1	0.29	0.51	0.49	(0.01, 2.72)	334	0.40
Southside Hospital	69	0	0.00	0.90	0.00	(0.00, 5.10)	35	0.00
St. Catherine of Siena	37	0	0.00	1.41	0.00	(0.00, 6.08)	.	.
Winthrop Univ. Hosp	17	0	0.00	0.65	0.00	(0.00,28.53)	14	0.00
Patel T	1090	9	0.83	1.20	0.59	(0.27, 1.12)	899	0.52
Rochester General Hosp	896	8	0.89	1.02	0.76	(0.33, 1.49)	838	0.55
Strong Memorial Hosp	61	0	0.00	0.73	0.00	(0.00, 7.14)	61	0.00
Unity Hospital	133	1	0.75	2.67	0.24	(0.00, 1.35)	.	.
Pena Sing I	724	5	0.69	0.88	0.67	(0.22, 1.57)	666	0.39
Bellevue Hospital Ctr	569	4	0.70	0.78	0.78	(0.21, 1.99)	523	0.45
NYU Hospitals Center	155	1	0.65	1.27	0.44	(0.01, 2.45)	143	0.00
Perry-Bottinger L	60	0	0.00	0.40	0.00	(0.00,13.07)	59	0.00
NY Hospital - Queens	11	0	0.00	0.65	0.00	(0.00,44.14)	11	0.00
NYP- Columbia Presby.	49	0	0.00	0.35	0.00	(0.00,18.56)	48	0.00
Petrosian G	1628	13	0.80	0.89	0.77	(0.41, 1.32)	1519	0.61
South Nassau Comm.Hosp	15	0	0.00	2.03	0.00	(0.00,10.37)	3	0.00
St. Francis Hospital	1613	13	0.81	0.88	0.79	(0.42, 1.35)	1516	0.61
Phadke K	1129	11	0.97	0.87	0.97	(0.48, 1.73)	977	0.74
Buffalo General Hosp	2	0	0.00	1.81	0.00	(0.00,87.63)	1	0.00
Erie County Med Ctr	234	4	1.71	0.93	1.58	(0.43, 4.06)	203	1.51
Millard Fillmore Hosp	893	7	0.78	0.85	0.79	(0.32, 1.63)	773	0.59

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Puma A	807	11	1.36	0.80	1.47	(0.73, 2.64)	789	0.95
Lenox Hill Hospital	216	0	0.00	0.62	0.00	(0.00, 2.37)	210	0.00
NY Methodist Hospital	591	11	1.86	0.86	1.86 *	(0.93, 3.33)	579	1.24
Reddy C	386	2	0.52	0.82	0.54	(0.06, 1.96)	376	0.41
NY Methodist Hospital	348	2	0.57	0.86	0.58	(0.06, 2.08)	338	0.44
NYP- Weill Cornell	38	0	0.00	0.48	0.00	(0.00,17.37)	38	0.00
Reger M	567	1	0.18	0.76	0.20	(0.00, 1.11)	496	0.20
Crouse Hospital	17	0	0.00	1.25	0.00	(0.00,14.84)	15	0.00
St. Josephs Hospital	550	1	0.18	0.74	0.21	(0.00, 1.17)	481	0.21
Rehman A	853	7	0.82	1.09	0.65	(0.26, 1.34)	757	0.32
North Shore Univ Hosp	3	0	0.00	0.85	0.00	(0.00,100.0)	3	0.00
South Nassau Comm.Hosp	14	0	0.00	1.60	0.00	(0.00,14.17)	.	.
St. Francis Hospital	836	7	0.84	1.08	0.67	(0.27, 1.37)	754	0.32
Reich D	651	2	0.31	0.76	0.35	(0.04, 1.26)	562	0.18
Good Sam - West Islip	42	0	0.00	1.61	0.00	(0.00, 4.69)	.	.
LIJ Medical Center	146	0	0.00	1.13	0.00	(0.00, 1.91)	144	0.00
North Shore Univ Hosp	365	1	0.27	0.52	0.46	(0.01, 2.54)	359	0.36
Southside Hospital	60	1	1.67	0.89	1.62	(0.02, 9.02)	22	0.00
St. Francis Hospital	31	0	0.00	0.42	0.00	(0.00,24.11)	30	0.00
Winthrop Univ. Hosp	7	0	0.00	0.69	0.00	(0.00,65.93)	7	0.00
Reimers C	1297	12	0.93	0.69	1.16	(0.60, 2.04)	1241	0.67
Beth Israel Med Ctr	183	1	0.55	0.41	1.14	(0.01, 6.32)	183	0.83
Lenox Hill Hospital	1114	11	0.99	0.73	1.17	(0.58, 2.09)	1058	0.66
Rentrop K	79	0	0.00	0.27	0.00	(0.00,14.87)	79	0.00
Beth Israel Med Ctr	20	0	0.00	0.21	0.00	(0.00,75.08)	20	0.00
SVMC- St. Vincents	59	0	0.00	0.29	0.00	(0.00,18.55)	59	0.00
Roccario E	736	6	0.82	0.92	0.76	(0.28, 1.66)	576	0.51
Albany Medical Center	3	0	0.00	3.11	0.00	(0.00,33.86)	2	0.00
St. Peters Hospital	733	6	0.82	0.91	0.77	(0.28, 1.68)	574	0.51
Rosenband M	720	3	0.42	0.66	0.54	(0.11, 1.58)	689	0.43
North Shore Univ Hosp	45	0	0.00	0.45	0.00	(0.00,15.48)	44	0.00
St. Catherine of Siena	11	0	0.00	1.58	0.00	(0.00,18.19)	.	.
Univ.Hosp-Stony Brook	664	3	0.45	0.66	0.59	(0.12, 1.72)	645	0.46
Sacchi T	1443	15	1.04	0.70	1.28	(0.71, 2.11)	1373	0.75
Maimonides Medical Ctr	79	1	1.27	0.45	2.42	(0.03,13.47)	79	1.74
NY Methodist Hospital	1364	14	1.03	0.72	1.24	(0.67, 2.07)	1294	0.71
Sassower M	620	4	0.65	0.70	0.79	(0.21, 2.03)	560	0.61
North Shore Univ Hosp	34	0	0.00	0.37	0.00	(0.00,25.23)	34	0.00
Winthrop Univ. Hosp	586	4	0.68	0.72	0.81	(0.22, 2.09)	526	0.63

Table 4 continued

	Cases	Deaths	OMR	All Cases			Non-Emergency	
				EMR	RAMR	95% CI for RAMR	Cases	RAMR
Schwartz R	1171	5	0.43	0.89	0.41	(0.13, 0.96)	1105	0.33
Huntington Hospital	1	0	0.00	0.67	0.00	(0.00,100.0)	.	.
North Shore Univ Hosp	217	0	0.00	0.49	0.00	(0.00, 3.00)	212	0.00
St. Francis Hospital	1	0	0.00	1.43	0.00	(0.00,100.0)	1	0.00
Winthrop Univ. Hosp	952	5	0.53	0.98	0.46	(0.15, 1.07)	892	0.39
Sehhat K	194	4	2.06	1.19	1.49	(0.40, 3.82)	159	1.10
Montefiore - Moses	9	0	0.00	1.30	0.00	(0.00,26.96)	8	0.00
SVCMC- St. Vincents	185	4	2.16	1.19	1.57	(0.42, 4.02)	151	1.16
Shaknovich A	317	3	0.95	0.44	1.84	(0.37, 5.37)	317	1.42
Beth Israel Med Ctr	226	3	1.33	0.47	2.46	(0.49, 7.18)	226	1.92
NY Methodist Hospital	91	0	0.00	0.39	0.00	(0.00, 8.94)	91	0.00
Sherman W	399	2	0.50	0.93	0.46	(0.05, 1.67)	374	0.46
Mount Sinai Hospital	188	0	0.00	0.91	0.00	(0.00, 1.84)	183	0.00
NYP- Columbia Presby.	211	2	0.95	0.95	0.86	(0.10, 3.11)	191	0.90
Shlofmitz R	1422	2	0.14	0.44	0.28	(0.03, 1.00)	1398	0.20
St. Catherine of Siena	4	0	0.00	0.69	0.00	(0.00,100.0)	.	.
St. Francis Hospital	1418	2	0.14	0.44	0.28	(0.03, 1.00)	1398	0.20
Simons A	993	7	0.70	0.84	0.73	(0.29, 1.50)	870	0.72
Crouse Hospital	22	1	4.55	1.33	2.96	(0.04,16.44)	20	2.39
St. Josephs Hospital	971	6	0.62	0.83	0.65	(0.24, 1.40)	850	0.63
Singh V	959	9	0.94	0.62	1.31	(0.60, 2.48)	892	0.82
NYP- Columbia Presby.	292	2	0.68	0.44	1.35	(0.15, 4.86)	287	0.98
St. Lukes at St. Lukes	667	7	1.05	0.70	1.29	(0.52, 2.67)	605	0.74
Slater J	534	8	1.50	0.69	1.88	(0.81, 3.70)	498	1.35
Bellevue Hospital Ctr	141	2	1.42	0.88	1.39	(0.16, 5.00)	124	1.31
NYU Hospitals Center	302	4	1.32	0.57	2.00	(0.54, 5.12)	283	1.11
St. Lukes at St. Lukes	91	2	2.20	0.78	2.43	(0.27, 8.78)	91	1.79
Snyder S	203	1	0.49	0.58	0.74	(0.01, 4.10)	184	0.00
SVCMC- St. Vincents	1	0	0.00	0.11	0.00	(0.00,100.0)	1	0.00
Staten Island Univ Hosp	202	1	0.50	0.58	0.74	(0.01, 4.10)	183	0.00
Soffer D	384	3	0.78	0.77	0.87	(0.18, 2.55)	361	0.75
Jamaica Hosp Med Ctr	1	0	0.00	0.67	0.00	(0.00,100.0)	.	.
Lenox Hill Hospital	383	3	0.78	0.77	0.88	(0.18, 2.56)	361	0.75
Staniloae C	385	3	0.78	0.64	1.04	(0.21, 3.05)	323	0.39
NYU Hospitals Center	5	0	0.00	0.12	0.00	(0.00,100.0)	5	0.00
SVCMC- St. Vincents	380	3	0.79	0.65	1.05	(0.21, 3.06)	318	0.40
Stone G	340	3	0.88	0.91	0.83	(0.17, 2.43)	315	0.49
Lenox Hill Hospital	120	0	0.00	0.96	0.00	(0.00, 2.74)	108	0.00
NYP- Columbia Presby.	220	3	1.36	0.89	1.32	(0.27, 3.87)	207	0.81

Table 4 continued

	All Cases						Non-Emergency	
	Cases	Deaths	OMR	EMR	RAMR	95% CI for RAMR	Cases	RAMR
Strizik B	560	5	0.89	0.97	0.80	(0.26, 1.86)	489	0.50
Huntington Hospital	30	2	6.67	2.81	2.04	(0.23, 7.38)	.	.
LIJ Medical Center	47	0	0.00	1.22	0.00	(0.00, 5.52)	46	0.00
North Shore Univ Hosp	483	3	0.62	0.83	0.65	(0.13, 1.89)	443	0.59
Stuver T	1031	11	1.07	1.13	0.82	(0.41, 1.46)	807	0.37
Rochester General Hosp	1025	11	1.07	1.11	0.83	(0.41, 1.49)	807	0.37
Unity Hospital	6	0	0.00	3.60	0.00	(0.00,14.64)	.	.
Suleman J	910	11	1.21	0.86	1.21	(0.60, 2.17)	860	0.74
Jamaica Hosp Med Ctr	7	2	28.57	2.50	9.85 *	(1.11,35.56)	.	.
LIJ Medical Center	37	0	0.00	0.54	0.00	(0.00,15.72)	34	0.00
Mount Sinai Hospital	866	9	1.04	0.86	1.04	(0.47, 1.98)	826	0.77
Sullivan P	100	3	3.00	0.58	4.49 *	(0.90,13.11)	97	1.47
Buffalo General Hosp	99	3	3.03	0.58	4.49 *	(0.90,13.13)	96	1.47
Millard Fillmore Hosp	1	0	0.00	0.09	0.00	(0.00,100.0)	1	0.00
Tai Z	177	5	2.82	0.72	3.40 *	(1.10, 7.94)	168	2.17
NY Methodist Hospital	63	0	0.00	0.37	0.00	(0.00,13.53)	63	0.00
SVCMC- St. Vincents	114	5	4.39	0.91	4.17 *	(1.34, 9.73)	105	3.00
Teirstein P	97	1	1.03	1.11	0.80	(0.01, 4.44)	96	0.62
Lenox Hill Hospital	35	0	0.00	0.70	0.00	(0.00,12.83)	35	0.00
NYP- Columbia Presby.	62	1	1.61	1.35	1.03	(0.01, 5.75)	61	0.81
Tsiamtsiouris T	628	6	0.96	0.72	1.14	(0.42, 2.49)	587	0.69
St. Catherine of Siena	8	0	0.00	2.31	0.00	(0.00,17.09)	.	.
St. Francis Hospital	620	6	0.97	0.70	1.19	(0.44, 2.60)	587	0.69
Wachsman D	195	0	0.00	0.70	0.00	(0.00, 2.31)	187	0.00
North Shore Univ Hosp	189	0	0.00	0.72	0.00	(0.00, 2.32)	181	0.00
St. Francis Hospital	6	0	0.00	0.12	0.00	(0.00,100.0)	6	0.00
Wilentz J	343	2	0.58	0.48	1.05	(0.12, 3.80)	328	0.52
Beth Israel Med Ctr	10	0	0.00	0.29	0.00	(0.00,100.0)	9	0.00
Lenox Hill Hospital	66	1	1.52	0.48	2.75	(0.04,15.28)	65	2.60
St. Lukes at St. Lukes	267	1	0.37	0.49	0.66	(0.01, 3.70)	254	0.00
Witkes D	473	1	0.21	0.54	0.34	(0.00, 1.89)	451	0.31
North Shore Univ Hosp	234	0	0.00	0.42	0.00	(0.00, 3.21)	231	0.00
Winthrop Univ. Hosp	239	1	0.42	0.65	0.55	(0.01, 3.08)	220	0.61
Zisfein J	403	6	1.49	0.96	1.34	(0.49, 2.93)	337	1.09
North Shore Univ Hosp	209	3	1.44	0.68	1.82	(0.37, 5.31)	201	1.69
South Nassau Comm.Hosp	79	3	3.80	2.39	1.37	(0.28, 4.01)	29	0.00
St. Francis Hospital	115	0	0.00	0.47	0.00	(0.00, 5.84)	107	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 (2006) Based on Documentation in Medical Record

Patient Risk Factor	Definitions
Hemodynamic State	
<ul style="list-style-type: none"> Unstable 	Determined just prior to the intervention
<ul style="list-style-type: none"> Shock 	Patient requires pharmacologic or mechanical support to maintain blood pressure or cardiac output.
	Acute hypotension (systolic blood pressure < 80 mmHg) or low cardiac index (< 2.0 liters/min/m ²), despite pharmacologic or mechanical support. All cases with this risk factor are excluded from this report.
Comorbidities	
<ul style="list-style-type: none"> Chronic Obstructive Pulmonary Disease (COPD) 	Patients who require chronic (longer than three months) bronchodilator therapy to avoid disability from obstructive airway disease, have a forced expiratory volume in one second of less than 75 percent of the predicted value or less than 1.25 liters or have a room air PO ₂ <60 or a PCO ₂ >50.
<ul style="list-style-type: none"> Congestive Heart Failure (CHF), Current 	Within 2 weeks prior to the procedure, a physician has diagnosed CHF by one of the following: <ul style="list-style-type: none"> Paroxysmal nocturnal dyspnea (PND); Dyspnea on exertion (DOE) due to heart failure; Chest X-Ray showing pulmonary congestion.
<ul style="list-style-type: none"> Malignant Ventricular Arrhythmia 	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.
<ul style="list-style-type: none"> Peripheral Vascular Disease 	Angiographic demonstration of at least 50 percent 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.
<ul style="list-style-type: none"> Renal Failure, Creatinine 	Highest Pre-PCI creatinine during the hospital admission was within the indicated range.
<ul style="list-style-type: none"> Renal Failure, Dialysis 	The patient is on chronic peritoneal or hemodialysis.
Ventricular Function	
<ul style="list-style-type: none"> Previous MI 	Most recent myocardial infarction (MI) occurred in the specified time period before the intervention.
<ul style="list-style-type: none"> Ejection Fraction 	Value of the ejection fraction taken closest to the procedure. When a calculated measure is unavailable the ejection fraction should be estimated visually from the ventriculogram or by echocardiography. Intraoperative direct observation of the heart is not an adequate basis for a visual estimate of the ejection fraction.

MEDICAL TERMINOLOGY

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

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

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

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

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

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

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

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

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

lesion - An irregular growth of fiber and tissue.

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

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

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

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

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

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

Appendix 1

2006 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 2006 are presented in the table that follows.

Roughly speaking, the odds ratio for a risk factor represents the number of times a patient with that risk factor is more likely to die in the hospital during or after PCI or after hospital discharge but within 30 days of the PCI than a patient without the risk factor, all other risk factors being the same. For example, the odds ratio for the risk factor “COPD” is 2.034. This means that a patient with COPD is approximately 2.034 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 COPD who has the same other significant risk factors. The risk factors Unstable, Peripheral Vascular Disease, Malignant Ventricular Arrhythmia and CHF-Current are interpreted in the same way.

With regard to age, the odds ratio roughly represents the number of times a patient who is over age 60 is more likely to die in the hospital or after discharge but within 30 days than another patient who is one year younger, all other significant risk factors being the same. Thus, a patient undergoing PCI who is 68 years old has approximately 1.065 times the chance of dying in the hospital or within 30 days than a 67 year-old patient has, all other risk factors being the same. All patients aged 60 years or younger have roughly the same odds of dying in the hospital or after discharge but within 30 days, if their other risk factors are identical.

The odds ratio for the variable Female Gender is 1.327, meaning that a female undergoing PCI is 1.327 times more likely to die in the hospital or after discharge but within 30 days than a male with all of the same other significant risk factors.

Ejection fraction, which is the percentage of blood in the heart’s left ventricle that is expelled when it contracts (with more denoting a healthier heart), is subdivided into four ranges (less than 20 percent, 20 percent to 29 percent, 30 percent to 39 percent and 40 percent or more). The last range is referred to as the reference category. This means that the odds ratio that appears for the other Ejection Fraction categories in the table is relative to patients with an ejection fraction of 40 percent or more. Thus, a PCI patient with an ejection fraction of less than 20 percent is about 2.888 times as likely to die in the hospital or within 30 days as a patient with an ejection fraction of 40 percent or higher, all other significant risk factors being the same.

Previous MI is subdivided into five ranges (occurring less than six hours prior, six to eleven hours prior, twelve to twenty-three hours prior, one to seven days prior and no MI within seven days prior to the procedure). The last range is referred to as the reference category. The odds ratios for the Previous MI ranges are relative to patients who have not had an MI within seven days prior to PCI.

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

Appendix 1 Multivariate Risk-Factor Equation for In-Hospital/30 Day Deaths During or Following PCI, 2006 (*All Cases*)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: Number of years greater than 60	--	0.0632	<.0001	1.065
Female Gender	32.25	0.2828	0.0035	1.327
Hemodynamic State				
Unstable	0.43	1.7252	<.0001	5.614
Ventricular Function				
Ejection Fraction				
Ejection Fraction 40% or greater	88.90	----Reference----		1.000
Ejection Fraction less than 20%	0.84	1.0605	<.0001	2.888
Ejection Fraction 20-29%	3.33	0.8716	<.0001	2.391
Ejection Fraction 30-39%	6.94	0.6816	<.0001	1.977
Pre-Procedural MI				
No MI within 7 days	77.95	----Reference----		1.000
MI < 6 hrs	6.46	1.8960	<.0001	6.659
MI 6-11 hrs	1.99	1.6301	<.0001	5.104
MI 12-23 hrs	2.37	1.2783	<.0001	3.591
MI 1-7 days	11.22	1.1274	<.0001	3.087
Comorbidities				
CHF, Current	5.15	0.7596	<.0001	2.137
COPD	6.57	0.7098	<.0001	2.034
Malignant Ventricular Arrhythmia	0.48	1.4987	<.0001	4.476
Peripheral Vascular Disease	6.43	0.5236	<.0001	1.688
Renal Failure				
No Renal Failure	90.13	----Reference----		1.000
Renal Failure, Creatinine 1.6-2.0 mg/dL	5.62	0.6854	<.0001	1.985
Renal Failure, Creatinine 2.1-2.5 mg/dL	1.31	0.7630	0.0012	2.145
Renal Failure, Creatinine > 2.5 mg/dL	0.90	1.0476	<.0001	2.851
Renal Failure, Requiring Dialysis	2.03	1.2573	<.0001	3.516
Intercept = -6.6851				
C Statistic = 0.839				

Appendix 2

2006 Risk Factors For In-Hospital/30-Day Mortality For Non-Emergency PCI

Appendix 2 contains the significant pre-procedural risk factors for 2006 New York State PCI patients who were not emergency patients (were not hemodynamically unstable and who did not suffer a heart attack within 24 hours prior to the PCI being performed).

The variables for CHF-Current, COPD, Malignant Ventricular Arrhythmia and Peripheral Vascular Disease are interpreted in the same manner as they were in Appendix 1. In this model, Renal Failure is represented as having renal failure requiring dialysis and is relative to patients who do not require dialysis. The interpretation for Age is similar to that described in Appendix 1. In this case, each year beyond age 55 is associated with an increase in risk when other risk factors are the same. The interpretation of Ejection Fraction is also similar to that previously described. In this case, the reference category is patients with an ejection fraction of 50 percent or greater.

In this model, there is only one category for Previous MI. Patients with a previous MI between one and seven days prior to the procedure are 3.025 times as likely to die in the hospital or after discharge but within 30 days of PCI as patients who have not had an MI within seven days, if all other risk factors are the same.

Body surface area is a function of height and weight and is a proxy for vessel size. Since larger vessels are easier to work with, the odds ratio for Body Surface Area indicates that for each additional unit of body surface area, the odds of dying in the hospital or after discharge but within 30 days of PCI is only 0.549 the odds for someone with a body surface area one unit smaller, all other risk factors being the same.

Appendix 2 Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI in New York State, 2006 (Non-Emergency Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: Number of years greater than 55	-	0.0451	<.0001	1.046
Body Surface Area	--	-0.5994	0.0103	0.549
Ventricular Function				
Ejection Fraction				
Ejection Fraction 50% or greater	77.17	----Reference----		1.000
Ejection Fraction less than 30%	3.77	1.1317	<.0001	3.101
Ejection Fraction 30-39%	5.98	1.0184	<.0001	2.769
Ejection Fraction 40-49%	13.09	0.6003	<.0001	1.823
Pre-Procedural MI				
Previous MI 1-7 days	12.55	1.1069	<.0001	3.025
Comorbidities				
CHF, Current	5.19	0.7218	<.0001	2.058
COPD	6.79	0.8347	<.0001	2.304
Malignant Ventricular Arrhythmia	0.37	1.4371	<.0001	4.209
Peripheral Vascular Disease	6.76	0.6916	<.0001	1.997
Renal Failure, Requiring Dialysis	2.21	1.0207	<.0001	2.775

Intercept = -5.4392

C Statistic = 0.816

Appendix 3

2004-2006 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 2004-2006 time period are presented in the table that follows. The interpretation of this table is similar to the interpretation of Appendices 1 and 2 that are described previously. The variables representing Age, Female Gender, Peripheral Vascular Disease, COPD, Malignant Ventricular Arrhythmia, Diabetes Requiring Medication, Unstable and Ejection Fraction are interpreted in the same manner as previously described.

The interpretation for Renal Failure is similar to Appendix 1, except in this case the reference category is patients with no Pre-PCI dialysis and no Pre-PCI creatinine greater than 1.0 mg/dL.

The interpretation for Previous MI is very similar to that in Appendix 1. In this case, the reference category is patients who have not had an MI within 14 days prior to the procedure.

In this model, there are three categories for CHF: Current, Past and No CHF within six months. The odds ratio for CHF-Current compares patients diagnosed with CHF within two weeks prior to the procedure to those who have not had CHF diagnosed within six months of the PCI. CHF-Past compares patients with CHF diagnosed between two weeks to six months prior to the procedure to those who have not had CHF in the past six months.

Three Vessels Diseased refers to patient with at least a 70 percent blockage in each of three native coronary arteries (LAD, RCA, LCX) or their major branches. The reference category for this group includes patients who have fewer than three vessels diseased.

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

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

Appendix 3 Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI
in New York State, 2004-2006 (All Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: Number of years greater than 55	--	0.0463	<.0001	1.047
Female Gender	32.09	0.7342	<.0001	2.084
Hemodynamic State				
Unstable	0.51	2.3685	<.0001	10.681
Ventricular Function				
Ejection Fraction				
Ejection Fraction 40% or more	88.63	----Reference----		1.000
Ejection Fraction less than 20%	0.85	1.4951	<.0001	4.460
Ejection Fraction 20-29%	3.44	1.2535	<.0001	3.503
Ejection Fraction 30-39%	7.08	0.9112	<.0001	2.487
Pre-Procedural MI				
No MI within 14 days	76.29	----Reference----		1.000
MI < 6 hrs	6.51	2.1528	<.0001	8.609
MI 6-11 hrs	1.86	1.9085	<.0001	6.743
MI 12-23 hrs	2.63	1.7433	<.0001	5.716
MI 1-7 days	11.49	1.3736	<.0001	3.949
MI 8-14 days	1.22	1.1229	<.0001	3.074
Comorbidities				
COPD				
COPD	6.32	1.0296	<.0001	2.800
Congestive Heart Failure (CHF)				
No CHF within 6 months	91.87	----Reference----		1.000
CHF, Current	5.67	1.0935	<.0001	2.985
CHF, Past but not Current	2.46	0.8055	<.0001	2.238
Diabetes, Requiring Medication	31.39	0.4887	<.0001	1.630
Malignant Ventricular Arrhythmia	0.49	1.3644	<.0001	3.913
Peripheral Vascular Disease	6.76	0.8026	<.0001	2.231
Renal Failure				
No Renal Failure	52.70	----Reference----		1.000
Renal Failure, Creatinine 1.1 - 1.5 mg/dL	37.24	0.4778	<.0001	1.612
Renal Failure, Creatinine 1.6 - 2.0 mg/dL	5.74	1.0162	<.0001	2.763
Renal Failure, Creatinine 2.1 - 3.0 mg/dL	1.83	1.4829	<.0001	4.406
Renal Failure, Creatinine > 3.0 mg/dL	0.54	1.6413	<.0001	5.162
Renal Failure, Requiring Dialysis	1.95	1.7244	<.0001	5.609
Vessels Diseased				
Three-Vessels Diseased	13.81	0.6952	<.0001	2.004
Left Main Disease	3.76	0.6959	<.0001	2.006
Number of Risk Factors Squared	--	-0.0475	<.0001	0.954
Intercept = -7.4346				
C Statistic = 0.842				

Appendix 4

2004-2006 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 2004-2006 time period are presented in the Appendix 4 table below. The interpretation for this appendix is similar to the interpretation of Appendices 1-3 described previously.

Appendix 4 Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI in New York State, 2004-2006 (Non-Emergency Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: Number of years greater than 55	--	0.0411	<.0001	1.042
Female Gender	32.68	0.6523	<.0001	1.920
Ventricular Function				
Ejection Fraction				
Ejection Fraction 50% or greater	76.43	----Reference----		1.000
Ejection Fraction less than 20%	0.80	1.5115	<.0001	4.533
Ejection Fraction 20-29%	3.09	1.2790	<.0001	3.593
Ejection Fraction 30-39%	6.14	1.0514	<.0001	2.862
Ejection Fraction 40-49%	13.54	0.6934	<.0001	2.000
Pre-Procedural MI				
No Previous MI within 14 days	85.77	----Reference----		1.000
Previous MI, 1- 7 days	12.86	1.3581	<.0001	3.889
Previous MI, 8-14 days	1.36	1.2017	<.0001	3.326
Comorbidities				
Cerebrovascular Disease	7.89	0.6879	<.0001	1.990
Congestive Heart Failure (CHF)				
No CHF	91.71	----Reference----		1.000
CHF, Current	5.62	1.0850	<.0001	2.959
CHF, Past but not current	2.67	0.8339	<.0001	2.302
COPD	6.53	1.1747	<.0001	3.237
Malignant Ventricular Arrhythmia	0.37	1.2675	<.0001	3.552
Peripheral Vascular Disease	7.11	0.8439	<.0001	2.325
Renal Failure				
No Renal Failure	89.59	----Reference----		1.000
Renal Failure, Creatinine 1.6 – 2.0 mg/dL	5.87	0.8470	<.0001	2.333
Renal Failure, Creatinine 2.1 – 3.0 mg/dL	1.89	1.2191	<.0001	3.384
Renal Failure, Creatinine > 3.1 mg/dL	0.56	1.5538	<.0001	4.729
Renal Failure, Requiring Dialysis	2.10	1.5994	<.0001	4.950
Vessels Diseased				
Three Vessels Diseased	13.91	0.6942	<.0001	2.002
Sum of Risk Factors Squared	--	-0.0593	<.0001	0.942

Intercept = -7.1535

C Statistic = 0.812

Appendix 5

2004-2006 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 2004-2006 time period are presented in the Appendix 5 table below. The interpretation of this table is similar to the interpretation of Appendices 1-4.

Appendix 5 Multivariate Risk-Factor Equation for In-Hospital/30-Day Deaths During or Following PCI in New York State 2004-2006 (Emergency Cases)

Patient Risk Factor	Prevalence (%)	Logistic Regression		
		Coefficient	P-Value	Odds Ratio
Demographic				
Age: Number of years greater than 60	--	0.0669	<.0001	1.069
Female Gender	27.42	0.4737	<.0001	1.606
Hemodynamic State				
Unstable	4.57	1.7016	<.0001	5.483
Ventricular Function				
Ejection Fraction				
Ejection Fraction 30% or greater	92.51	----Reference----		1.000
Ejection Fraction less than 20%	1.23	1.1330	<.0001	3.105
Ejection Fraction 20-29%	6.26	0.8506	<.0001	2.341
Previous MI				
Previous MI < 6 hrs	58.46	0.3884	<.0001	1.475
Comorbidities				
CHF, Current	6.11	0.8733	<.0001	2.395
Malignant Ventricular Arrhythmia	1.49	1.1849	<.0001	3.270
Renal Failure				
No Renal Failure	92.79	----Reference----		1.000
Renal Failure, Creatinine 1.6 – 2.0 mg/dL	4.63	0.8982	<.0001	2.455
Renal Failure, Creatinine 2.1 – 2.5 mg/dL	1.00	1.6011	<.0001	4.958
Renal Failure, Creatinine > 2.5 mg/dL	0.84	1.6938	<.0001	5.440
Renal Failure, Requiring Dialysis	0.74	1.8692	<.0001	6.483
Vessels Diseased				
Three Vessels Diseased	12.99	0.4820	<.0001	1.619

Intercept = -5.3339

C Statistic = 0.852

NEW YORK STATE PERCUTANEOUS CORONARY INTERVENTION CENTERS

Albany Medical Center Hospital New Scotland Avenue Albany, New York 12208	Lenox Hill Hospital 100 East 77th Street New York, New York 10021	St. Elizabeth Medical Center 2209 Genesee Street Utica, New York 13413
Arnot Ogden Medical Center 600 Roe Avenue Elmira, New York 14905	Long Island College Hospital** 340 Henry Street Brooklyn, New York 11201	St. Francis Hospital Port Washington Boulevard Roslyn, New York 11576
Bellevue Hospital Center First Avenue and 27th Street New York, New York 10016	Long Island Jewish Medical Center 270-05 76th Avenue New Hyde Park, New York 11040	St. Joseph's Hospital Health Center 301 Prospect Avenue Syracuse, New York 13203
Beth Israel Medical Center 10 Nathan D. Perlman Place New York, New York 10003	Mary Imogene Bassett Healthcare Atwell Road Cooperstown, New York 13326	St. Luke's Cornwall Hospital/ Newburgh* 70 Dubois Street Newburgh, New York 12550
Bronx-Lebanon Hospital Center @ Fulton Division* Fulton Ave @ 169th Street Bronx, New York 10456	Maimonides Medical Center 4802 Tenth Avenue Brooklyn, New York 11219	St. Luke's Roosevelt Hospital Center 11-11 Amsterdam Avenue at 114th Street New York, New York 10025
Brookdale Hospital Medical Center* Linden Boulevard @ Brookdale Plaza Brooklyn, New York 11212	Mercy Hospital 565 Abbot Rd Buffalo, New York 14220	St. Peter's Hospital 315 South Manning Boulevard Albany, New York 12208
Buffalo General Hospital 100 High Street Buffalo, New York 14203	Millard Fillmore Hospital 3 Gates Circle Buffalo, New York 14209	SVCMC - St. Vincent's Manhattan 153 West 11th Street New York, New York 10011
Champlain Valley Physicians Hospital Medical Center 75 Beekman Street Plattsburgh, New York 12901	Montefiore Medical Center Henry & Lucy Moses Division 111 East 210th Street Bronx, New York 11219	Staten Island University Hospital 475 Seaview Avenue Staten Island, New York 10305
Columbia Presbyterian Medical Center – NY Presbyterian 161 Fort Washington Avenue New York, New York 10032	Montefiore Medical Center- Weiler Hospital of A Einstein College 1825 Eastchester Road Bronx, New York 10461	Stony Brook University Medical Center Stony Brook, New York 11794-8410
Crouse Hospital 736 Irving Avenue Syracuse, New York 13210	Mount Sinai Medical Center One Gustave L. Levy Place New York, New York 10019	Strong Memorial Hospital 601 Elmwood Avenue Rochester, New York 14642
Ellis Hospital 1101 Nott Street Schenectady, New York 12308	NYU Hospitals Center 550 First Avenue New York, New York 10016	United Health Services Wilson Hospital Division 33-57 Harrison Street Johnson City, New York 13790
Elmhurst Hospital Center** 79-01 Broadway Elmhurst, New York 11373	New York Methodist Hospital 506 Sixth St. Brooklyn, New York 11215	Unity Hospital of Rochester** 1555 Long Pond Road Rochester, New York 14626
Erie County Medical Center 462 Grider Street Buffalo, New York 14215	New York Hospital Medical Center-Queens 56-45 Main Street Flushing, New York 11355	University Hospital of Brooklyn 450 Lenox Road Brooklyn, New York 11203
Faxton-St. Luke's Healthcare (St. Luke's Division)* Box 479 Utica, New York 13503	North Shore University Hospital 300 Community Drive Manhasset, New York 11030	University Hospital-Upstate Medical University 750 East Adams Street Syracuse, New York 13210
Glens Falls Hospital** 100 Park Street Glens Falls, New York 12801	Orange Regional Medical Center (Middletown Campus)* 60 Prospect Avenue Middletown, New York 10940	Vassar Brothers Hospital 45 Reade Place Poughkeepsie, New York 12601
Good Samaritan Hospital of Suffern 255 Lafayette Avenue Suffern, New York 10901	Rochester General Hospital 1425 Portland Avenue Rochester, New York 14621	Weill-Cornell Medical Center – NY Presbyterian 525 East 68th Street New York, New York 10021
Good Samaritan Hospital Medical Center** 1000 Montauk Highway West Islip, New York 11795	South Nassau Communities Hospital** One Healthy Way Oceanside, New York 11572	Westchester Medical Center Grasslands Road Valhalla, New York 10595
Huntington Hospital* 270 Park Ave. Huntington, New York 11743	Southside Hospital** 301 East Main Street Bayshore, New York 11706	Winthrop University Hospital 259 First Street Mineola, New York 11501
Jamaica Hospital Medical Center* 89th Avenue and Van Wyck Expressway Jamaica, New York 11418	St. Catherine of Siena Hospital* 50 Route 25A Smithtown, New York 11787	

* Hospital allowed to perform Primary PCI only (STEMI patients).

** Hospital allowed to perform Primary and Elective PCI without cardiac surgery on-site.

*Additional copies of this report may be obtained through the
Department of Health web site at <http://www.health.state.ny.us>
or by writing to:*

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



State of New York
David A. Paterson, Governor

Department of Health
Richard F. Daines, M.D., Commissioner