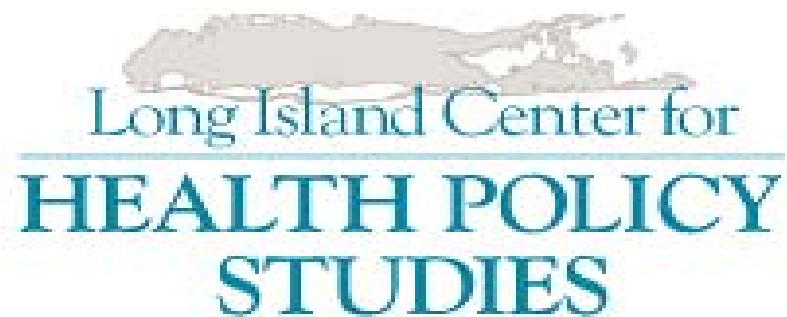


**Small Area Analysis:
Hospitalization of
Long Island Residents
2008**



Acknowledgments

The Long Island Center for Health Policy Studies wishes to express appreciation to: the New York State Department of Health for the Local Health Planning Initiatives Grant (HEAL NY 9) that makes this local health planning initiative possible, the U.S. Department of Health and Human Services Agency for Healthcare Research and Quality for the availability of the Clinical Classification Software, Nationwide Inpatient Sample (NIS) database, and State Inpatient Database (SID).

Special thanks to the members of the Long Island Center for Health Policy Studies Advisory Council for their time and guidance.

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Small Area Analysis: Hospitalization of Long Island Residents-2008

Nationally in 2008, approximately 31% of all healthcare dollars were spent on hospital care¹, thus making hospitalizations the single most expensive component of the health care system. Therefore, information about hospitalizations is essential for decision makers seeking to understand the system and to improve its efficiency and quality. This report presents basic facts about the reasons for Long Island resident hospitalizations benchmarked to National, New York State, Bi-County, and Community figures.

In order to understand the reasons for hospitalizations this report uses the Clinical Classification Software (CCS) developed by the Agency for Healthcare Research and Quality (AHRQ)². CCS is a tool for clustering patient diagnoses into a manageable number of clinically meaningful categories. CCS collapses diagnosis codes from the International Classification of Diseases (ICD-9-CM), which contains more than 14,000 diagnosis codes, into 285 mutually exclusive principle diagnosis categories. These diagnostic categories are further mapped into 17 broader body systems or condition categories (e.g., "Diseases of the Circulatory System," "Mental Disorders," "Injury", etc.). The Data for this report comes from two major sources. The Agency for Healthcare Research and Quality (AHRQ) has developed a number of databases and software tools for its Healthcare Cost and Utilization Project (HCUP). HCUP features online menu-driven tools that allow users to query its Nationwide Inpatient Sample (NIS) database and State Inpatient Database (SID). The New York State Department of Health maintains the Statewide Planning and Research Cooperative System (SPARCS) that, among other data, collects patient level detail on every inpatient stay by County and Community resident level (zip code). Please refer to the Methods & Source of Data Appendix for exact details and methods used in this report.

¹ Centers for Medicare & Medicaid Services, Office of the Actuary, National Health Statistics Group.

² HCUP Clinical Classifications Software (CCS) for ICD-9-CM. Healthcare Cost and Utilization Project (HCUP). 2009. Agency for Healthcare Research and Quality, Rockville, MD.
www.hcup-us.ahrq.gov/toolssoftware/ccs/ccs.jsp. Accessed September 2010.

Demographics of Hospital Discharges

2008 Gender by National, NYS, Nassau, and Suffolk Hospital Discharges

		National		NYS		Nassau		Suffolk	
All discharges		39,885,120	100.00%	2,580,868	100.00%	183,719	100.00%	196,782	100.00%
Sex	Male	16,498,753	41.37%	1,126,601	43.65%	80,125	43.61%	85,791	43.60%
	Female	23,275,119	58.36%	1,454,165	56.34%	103,594	56.39%	110,991	56.40%
	Missing	111,248	0.28%	102	0.00%				

*** Most hospitalizations are for women**

*** NYS, Nassau, and Suffolk have slightly more men proportionately than nationally**

2008 Age Groups by National, NYS, Nassau, and Suffolk Hospital Discharges

		National		NYS		Nassau		Suffolk	
All discharges		39,885,120	100.00%	2,580,868	100.00%	183,719	100.00%	196,782	100.00%
Age (mean)		48.52		48.82		53.22		49.84	
Age	<1	4,774,874	11.97%	276,116	10.70%	16,680	9.08%	20,016	10.17%
	1-17	1,574,415	3.95%	115,401	4.47%	7,046	3.84%	8,564	4.35%
	18-44	10,025,574	25.14%	670,708	25.99%	41,397	22.53%	49,505	25.16%
	45-64	9,504,242	23.83%	639,027	24.76%	42,146	22.94%	48,369	24.58%
	65-84	10,760,741	26.98%	663,815	25.72%	54,450	29.64%	53,165	27.02%
	85+	3,195,572	8.01%	215,624	8.35%	22,000	11.97%	17,163	8.72%
	Missing	49,702	0.12%	177	0.01%				

*** People 65 and older account for more hospital stays than any other age group**

*** Mean Age for Nassau residents is almost 3 and a half to 5 years older**

*** Nassau residents have almost 6% more elderly stays proportionately**

2008 Race /Ethnicity By National, NYS, Nassau, and Suffolk Hospital Discharges

		National	NYS		Nassau		Suffolk	
All discharges			2,580,868	100.00%	183,719	100.00%	196,782	100.00%
Race/ethnicity	White	*	1,461,675	56.64%	130,992	71.30%	129,679	65.90%
	Black	*	466,553	18.08%	22,414	12.20%	13,775	7.00%
	Hispanic	*	330,736	12.81%	9,737	5.30%	25,582	13.00%
	Asian/Pacific Islander	*	91,005	3.53%	4,960	2.70%	1,968	1.00%
	Native American	*	21,979	0.85%	919	0.50%	394	0.20%
	Other/Unk	*	208,920	8.10%	14,698	8.00%	25,385	12.90%

* Race/ethnicity of the patient as listed in the medical record. Not every State provides this information, thus race/ethnicity is not available for every State or for the national estimates.

*** Not enough States report race/ethnicity to produce a reliable sample.**

*** Suffolk and Nassau have a high percentage of Race/ethnicity not reported.**

*** Nassau has a lower percentage of Hispanic discharges.**

***Suffolk has a lower percentage of Black discharges.**

2008 National, NYS, Nassau, Suffolk Statistics

All discharges	National	NYS	Nassau	Suffolk
Total number of discharges	39,885,120	2,580,868	183,719	196,782
LOS (length of stay), days (mean)	4.6	5.6	5.8	5.4
Charges, \$ (mean)	\$29,046	\$26,584	\$32,440	\$33,140

*** Length of stay in New York is a day greater than nationally.**

*** Nassau and Suffolk total charges are \$3,000 to \$7,000 greater per stay on average.**

Why are Long Islanders admitted to the Hospital?

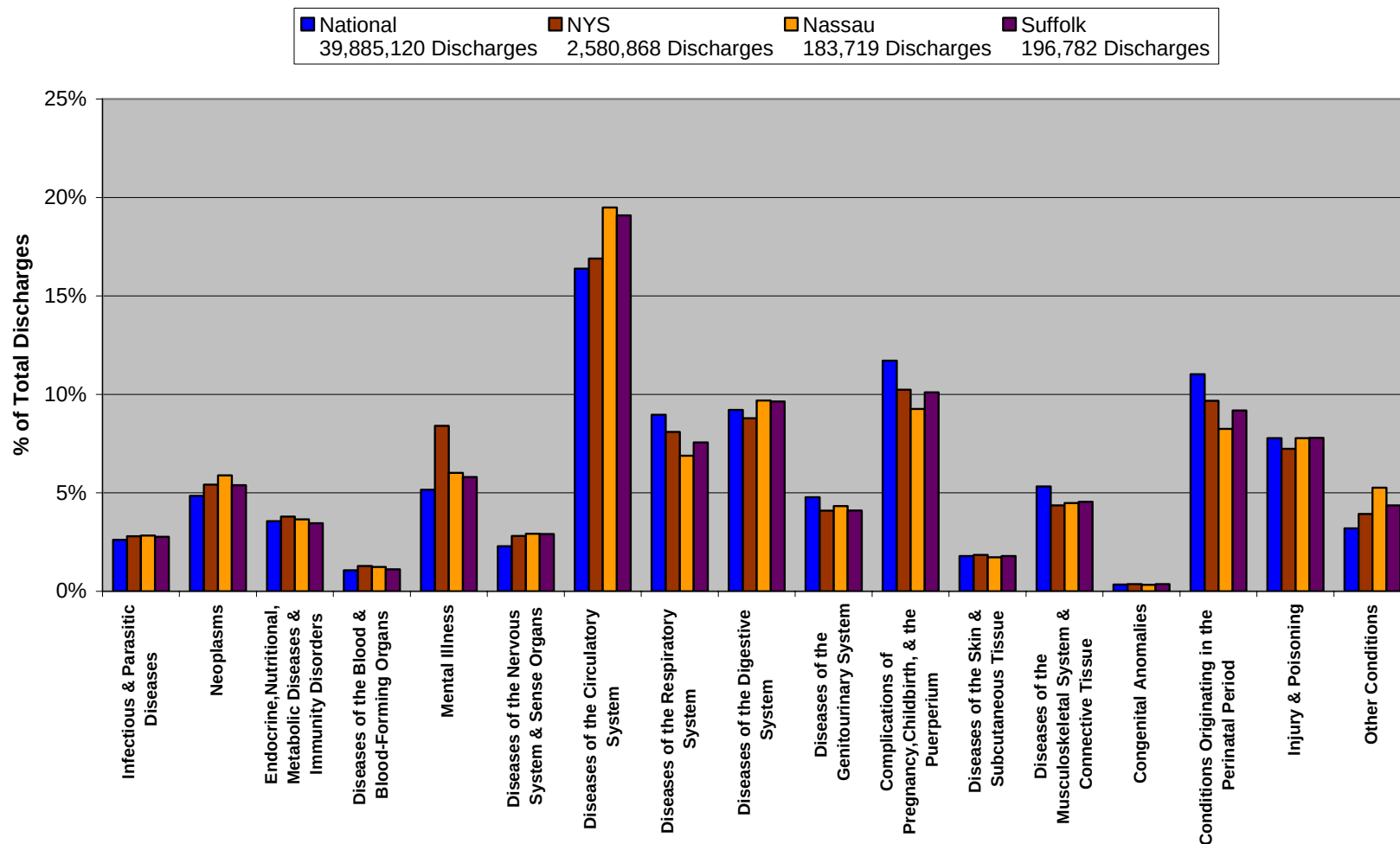
Nationally, hospitals and other healthcare facilities index healthcare data by referring and adhering to a classification system published by the U.S. Department of Health and Human Services: ICD, 9th Revision, Clinical Modification (ICD-9-CM). The Clinical Modification or CM system was developed and implemented in order to better describe the clinical picture of the patient. Every hospital discharge has at least one primary diagnosis (ICD-9-CM) code that represents the condition to have been chiefly responsible for the admission of the patient to the hospital for care. However, with more than 14,000 ICD-9-CM codes, analysis of patterns of diagnoses becomes unwieldy. Clinical Classification Software (CCS), developed at the Agency for Healthcare Research and Quality (AHRQ), is a tool for clustering patient diagnoses into a manageable number of clinical categories that facilitate analysis and reporting. CCS first aggregates all the ICD-9-CM codes into 285 mutually exclusive categories of principal diagnosis, and then reduces the principal diagnoses into 17 clusters.

**2008 Top 10 Rank Order of CCS Principal Diagnosis Category
Long Island, Nassau, Suffolk, NYS, and National by Number
of Discharges**

		Long Island Number	% of Total	Nassau Rank	Suffolk Rank	NYS Rank	National Rank
CCS principal diagnosis category and name	Rank	of Discharges	Discharges	Order	Order	Order	Order
218 Liveborn	1	32,446	8.5%	1	1	1	1
102 Nonspecific chest pain	2	11,856	3.1%	2	3	4	11
101 Coronary atherosclerosis	3	11,812	3.1%	3	2	2	4
106 Cardiac dysrhythmias	4	10,163	2.7%	4	4	7	8
108 Congestive heart failure	5	10,134	2.7%	5	5	3	3
122 Pneumonia	6	8,502	2.2%	7	6	5	2
2 Septicemia	7	7,988	2.1%	6	7	8	9
657 Mood disorders	8	7,152	1.9%	8	8	6	6
203 Osteoarthritis	9	6,381	1.7%	11	9	11	5
245 Syncope	10	6,205	1.6%	10	18	26	38
		112,639	29.6%				

The above table shows that the single most frequent reason for a hospital discharge nationally, in New York State, Nassau, and Suffolk County is birth. While generally the next three highest reasons can be grouped as cardiac, pneumonia, and septicemia, the rank order varies considerably from national to State to County. The top 10 CCS principal diagnosis categories for Long Island account for only about 30% of all discharges. In fact, to categorize 75% of Long Island hospital discharges, CCS reports about 60 different principal diagnoses and another 225 diagnoses for the remaining 25% (Nassau and Suffolk CCS Principal Diagnoses Categories Appendix).

National, New York State, Nassau, and Suffolk Hospital Discharges 2008 by Clustered Diagnoses (CCS)



The previous chart is produced by using CCS software to collapse the 285 principle diagnoses into 17 clusters of patient diagnoses that form meaningful categories or “clinical groupers”. These clusters can then be used to understand patterns of diagnoses across any range of variables, i.e. costs, utilization, outcomes etc. The above pattern of the clusters is very similar when comparing magnitude of discharges among national, state and county percentages. Diseases of the Circulatory System (mostly cardiac conditions) accounts for the highest percentage of discharges with Birth (Complications of Pregnancy, Childbirth, & the Puerperium and Conditions Originating in the perinatal period) following closely. These two major groups are then followed by Diseases of the Digestive System, Diseases of the Respiratory System, and Injury & Poisoning. A third grouping is Mental Illness, Neoplasms, and Diseases of the Musculoskeletal System & Connective Tissue. While the pattern of the clusters is very similar for overall percentage of discharges, it is important to note the difference location makes within a cluster. Diseases of the Circulatory System has the highest percentage of discharges among all clusters for all locations but more so for Nassau and Suffolk than New York State and Nationally. Similarly, the percentages of discharges for the two birth clusters are alike except that Nassau and Suffolk are lower than National and State percentages. Another apparent difference is the Mental Illness cluster, with New York State, Nassau, and Suffolk percentages higher than of the National overall.

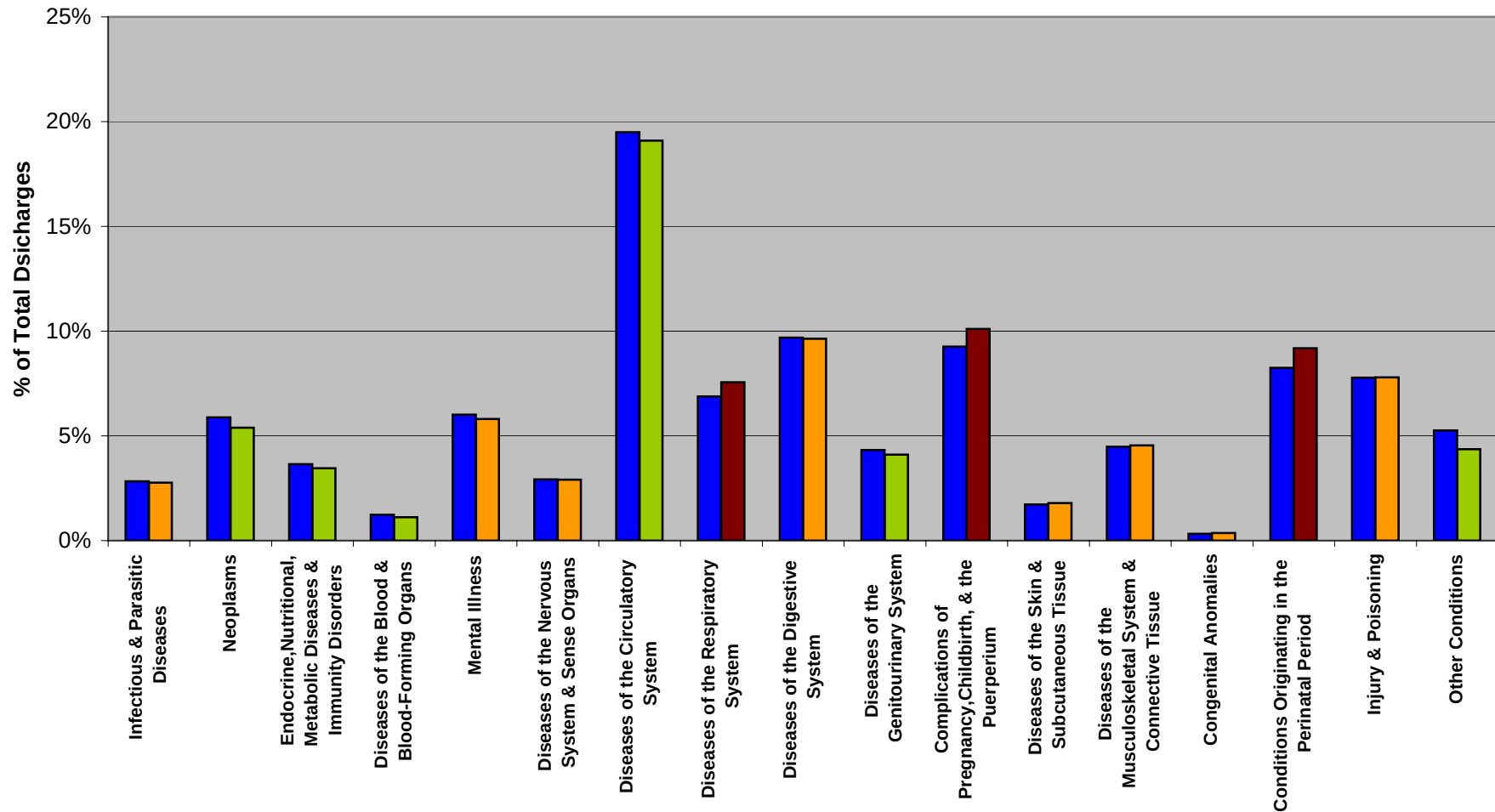
Nassau and Suffolk Counties Hospital Discharges 2008 by Clustered Diagnoses (CCS)

■ Nassau
183,719 Discharges

■ Suffolk
196,782 Discharges

Significant % Difference >

Significant % Difference <



Comparing Nassau to Suffolk shows approximately the same overall pattern of magnitude of discharges. However, given that the CCS system classifies the discharges into the 17 clusters uniformly, we can use a two sample independent t-test between percents to compare each cluster by County (see Methods & Source of Data Appendix). Nassau and Suffolk counties showed a significant difference on nine (9) of the seventeen (17) clusters with respect to the percent of discharges.

Nassau had significantly higher rates of discharges than Suffolk for:

Neoplasms
Endocrine, Nutritional, Metabolic Diseases & Immunity Disorders
Diseases of the Blood & Blood-Forming Organs
Diseases of the Circulatory System
Diseases of the Genitourinary System
Other Conditions

Suffolk had significantly higher rates of discharges than Nassau for:

Diseases of the Respiratory System
Complications of Pregnancy, Childbirth, & the Puerperium
Conditions Originating in the Perinatal Period

Using the same CCS clustered diagnoses system, a small area analysis was performed separately for each County. Using discharges by zip code each zip code was compared to the county total minus that zip code (see Methods & Source of Data Appendix). Again, given that the CCS system classifies the discharges into the 17 clusters uniformly, we can use a two sample independent t-test between percents to compare each cluster by zip code to its respective County. This produced 65 areas in Nassau and 104 areas in Suffolk. Each area clustered diagnoses chart with the corresponding two sample independent t-test can be seen in the Nassau and Suffolk Appendices. A simple summary of counting the number of significant cluster differences (greater than or less than County) produces a rank ordering of communities with the highest number of significant cluster variation (see Community Variation Appendix). Using criteria of 5 or more significant cluster differences produces (in rank order) ten communities in each County.

In Nassau County: Hempstead (10), Roosevelt (10), Westbury (9), Freeport (8), Long Beach (7), Uniondale (7), East Meadow (6), Plainview (6), Woodbury (6), Elmont (5).

In Suffolk County: Central Islip (8), Brentwood (7), Saint James (7), Bay Shore (6), Smithtown (6), Wyandanch (6), Melville (5), Patchogue (5), Ridge (5), West Islip (5).

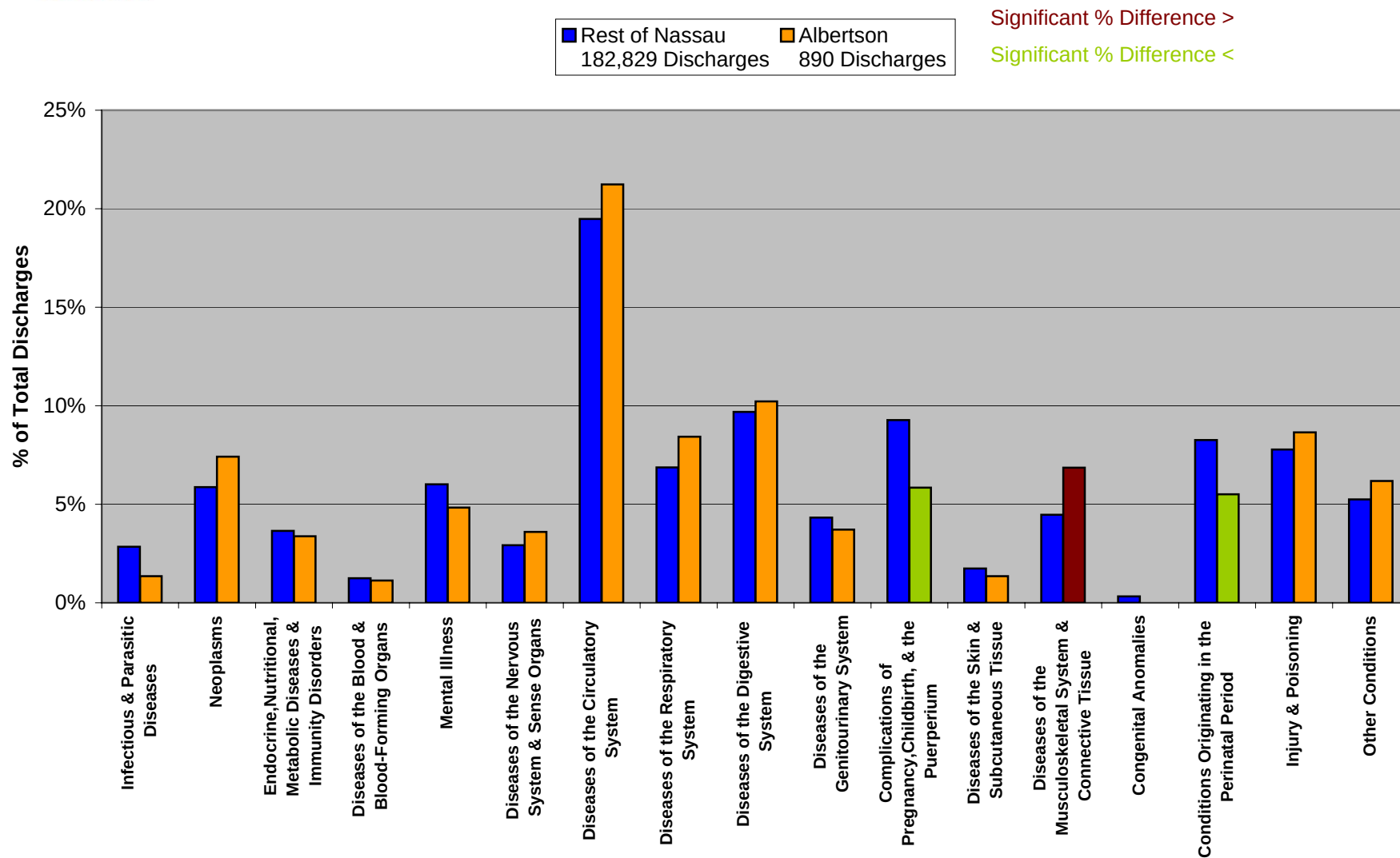
While these communities have the highest number of significant cluster differences the pattern of those differences also varies.

	Hempstead	Roosevelt	Westbury	Freeport	Uniondale	Elmont	Long Beach	East Meadow	Plainview	Woodbury
Infectious & Parasitic Diseases										
Neoplasms										
Endocrine,Nutritional, Metabolic Diseases & Immunity Disorders										
Diseases of the Blood & Blood-Forming Organs										
Mental Illness										
Diseases of the Nervous System & Sense Organs										
Diseases of the Circulatory System										
Diseases of the Respiratory System										
Diseases of the Digestive System										
Diseases of the Genitourinary System										
Complications of Pregnancy,Childbirth, & the Puerperium										
Diseases of the Skin & Subcutaneous Tissue										
Diseases of the Musculoskeletal System & Connective Tissue										
Congenital Anomalies										
Conditions Originating in the Perinatal Period										
Injury & Poisoning										
Other Conditions										
Significant % Difference >		Significant % Difference <		No Difference						

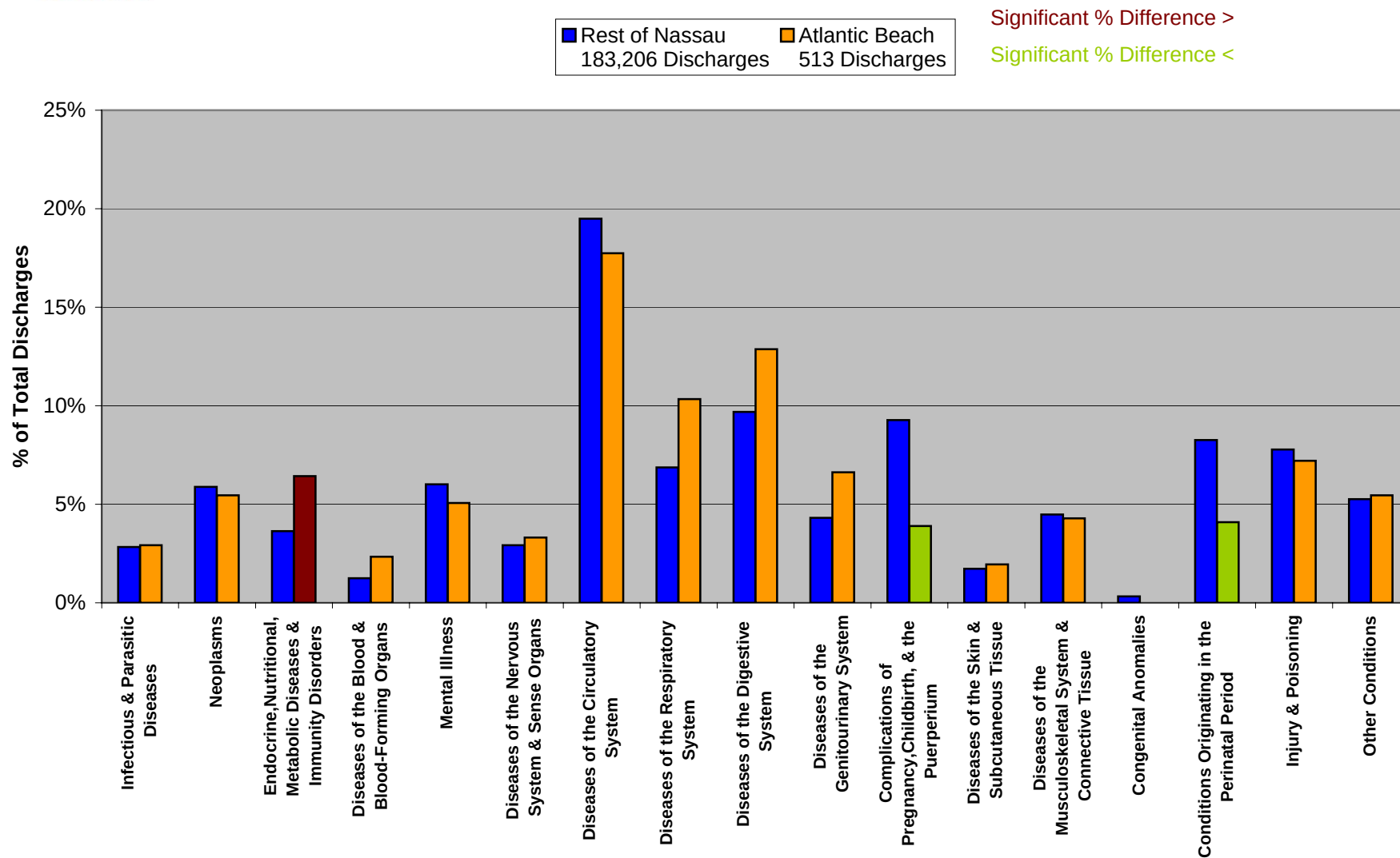
	Central Islip	Brentwood	Bay Shore	Wyandanch	Saint James	Smithtown	Melville	West Islip	Ridge	Patchogue
Infectious & Parasitic Diseases										
Neoplasms										
Endocrine,Nutritional, Metabolic Diseases & Immunity Disorders										
Diseases of the Blood & Blood-Forming Organs										
Mental Illness										
Diseases of the Nervous System & Sense Organs										
Diseases of the Circulatory System										
Diseases of the Respiratory System										
Diseases of the Digestive System										
Diseases of the Genitourinary System										
Complications of Pregnancy,Childbirth, & the Puerperium										
Diseases of the Skin & Subcutaneous Tissue										
Diseases of the Musculoskeletal System & Connective Tissue										
Congenital Anomalies										
Conditions Originating in the Perinatal Period										
Injury & Poisoning										
Other Conditions										
Significant % Difference >		Significant % Difference <		No Difference						

Nassau County

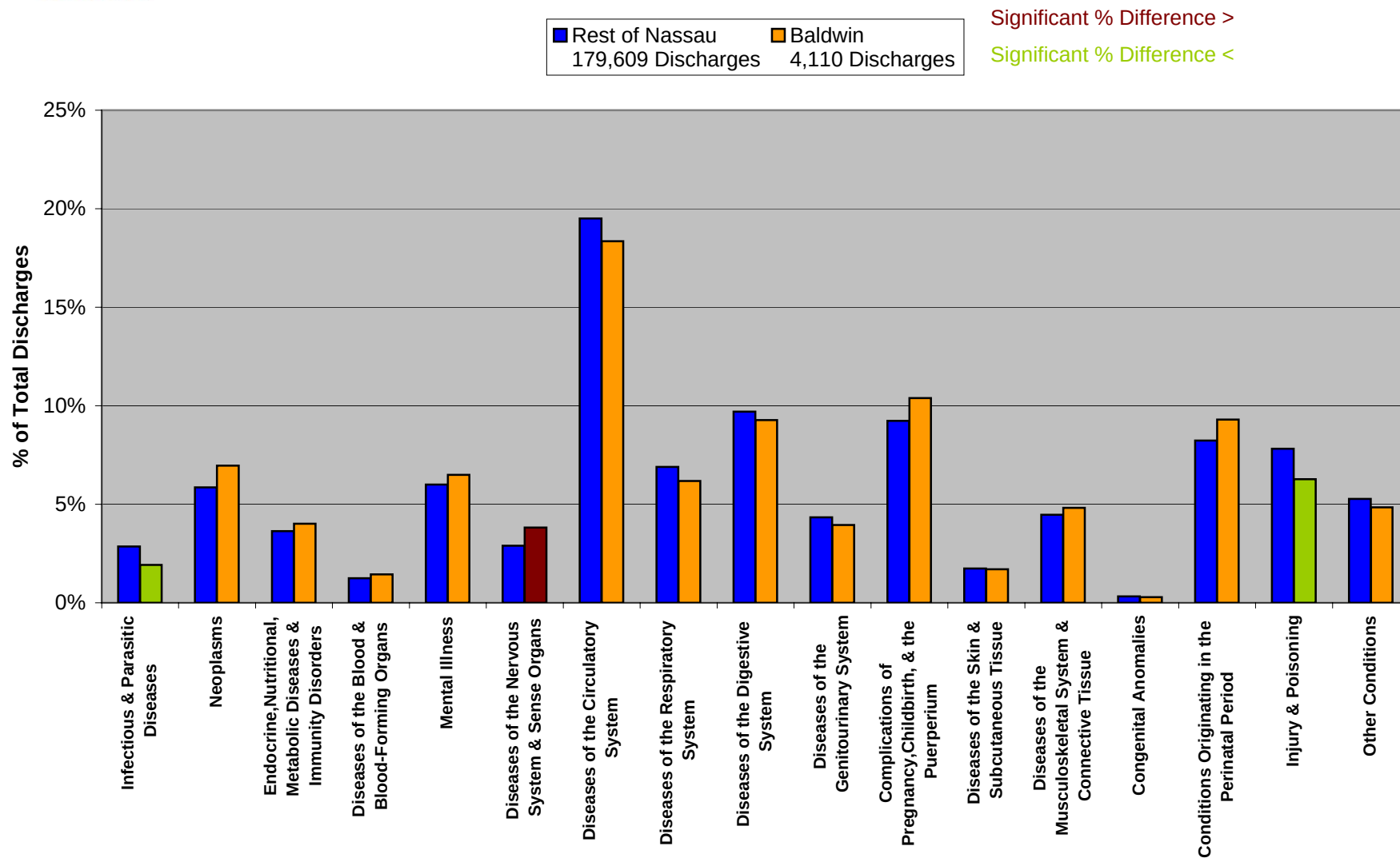
Albertson Hospital Discharges 2008 by Clustered Diagnoses (CCS)



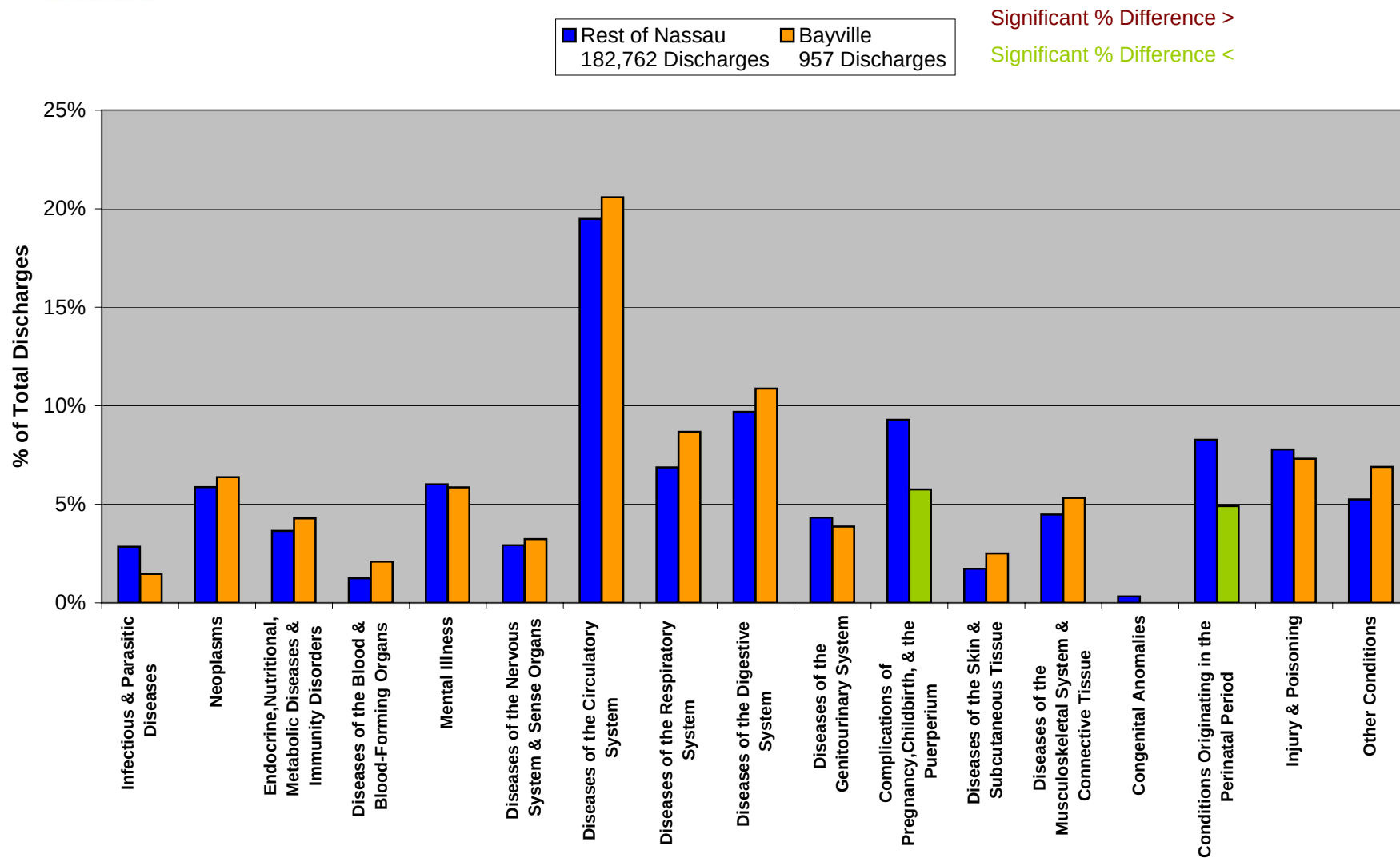
Atlantic Beach Hospital Discharges 2008 by Clustered Diagnoses (CCS)



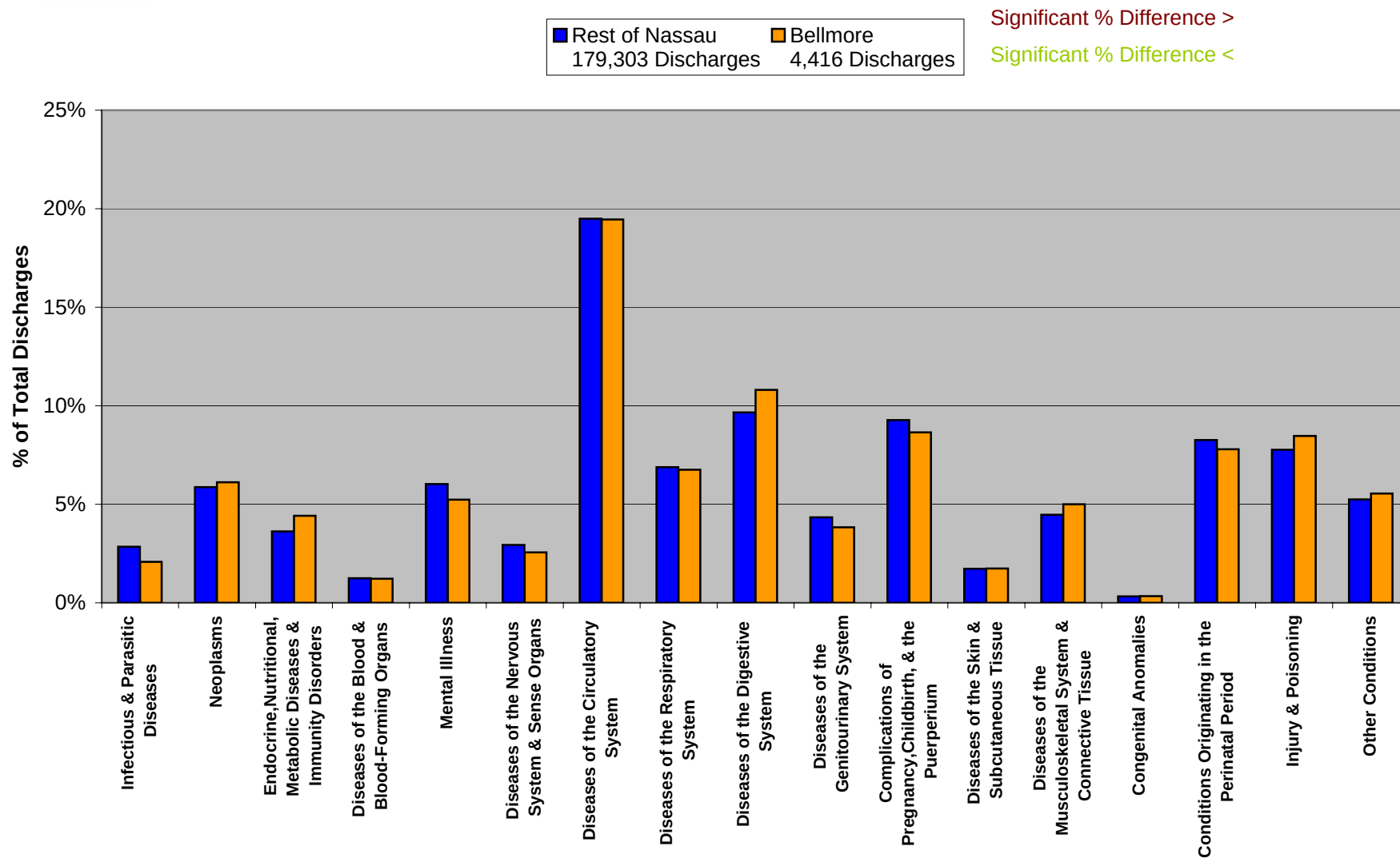
Baldwin Hospital Discharges 2008 by Clustered Diagnoses (CCS)



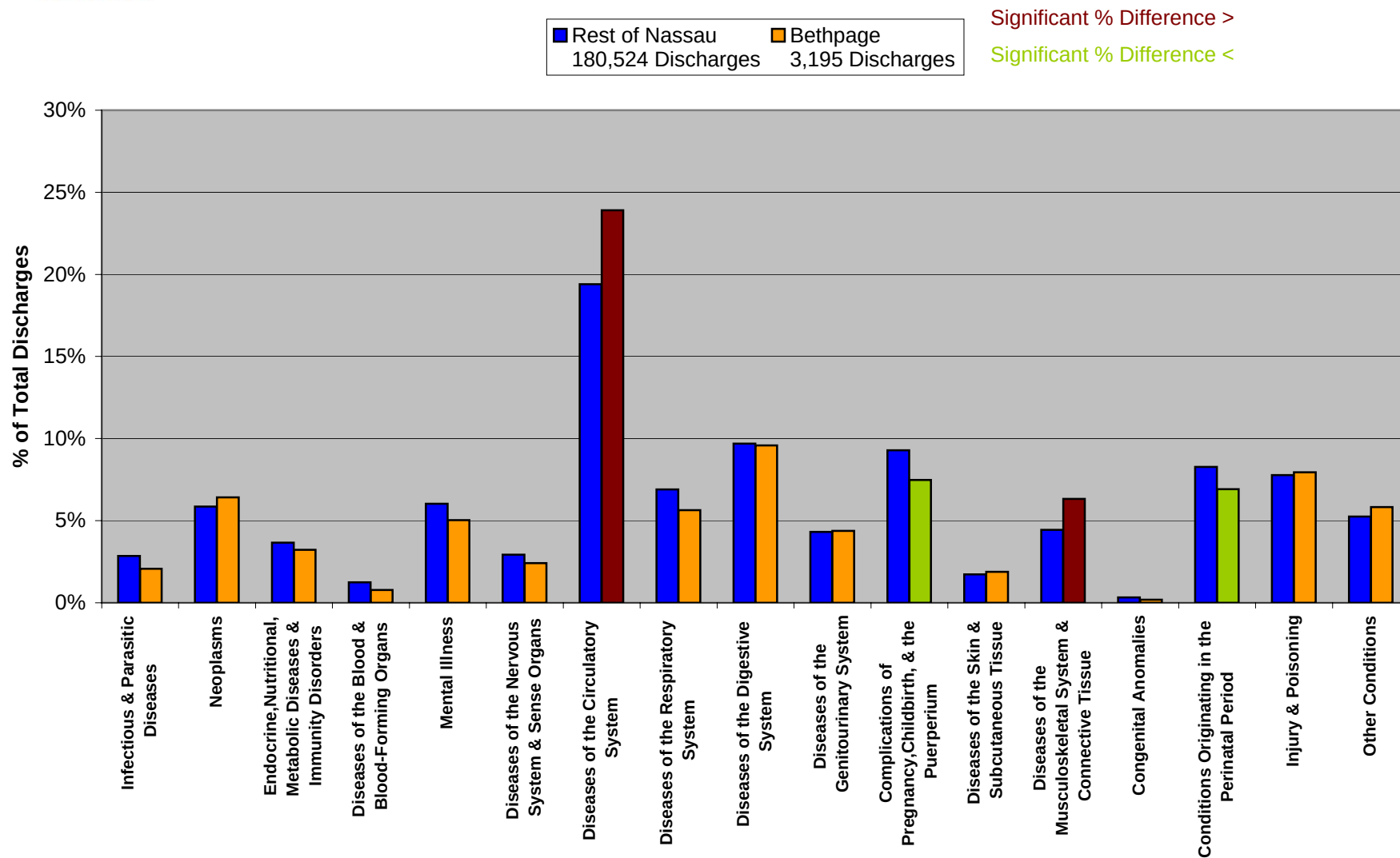
Bayville Hospital Discharges 2008 by Clustered Diagnoses (CCS)



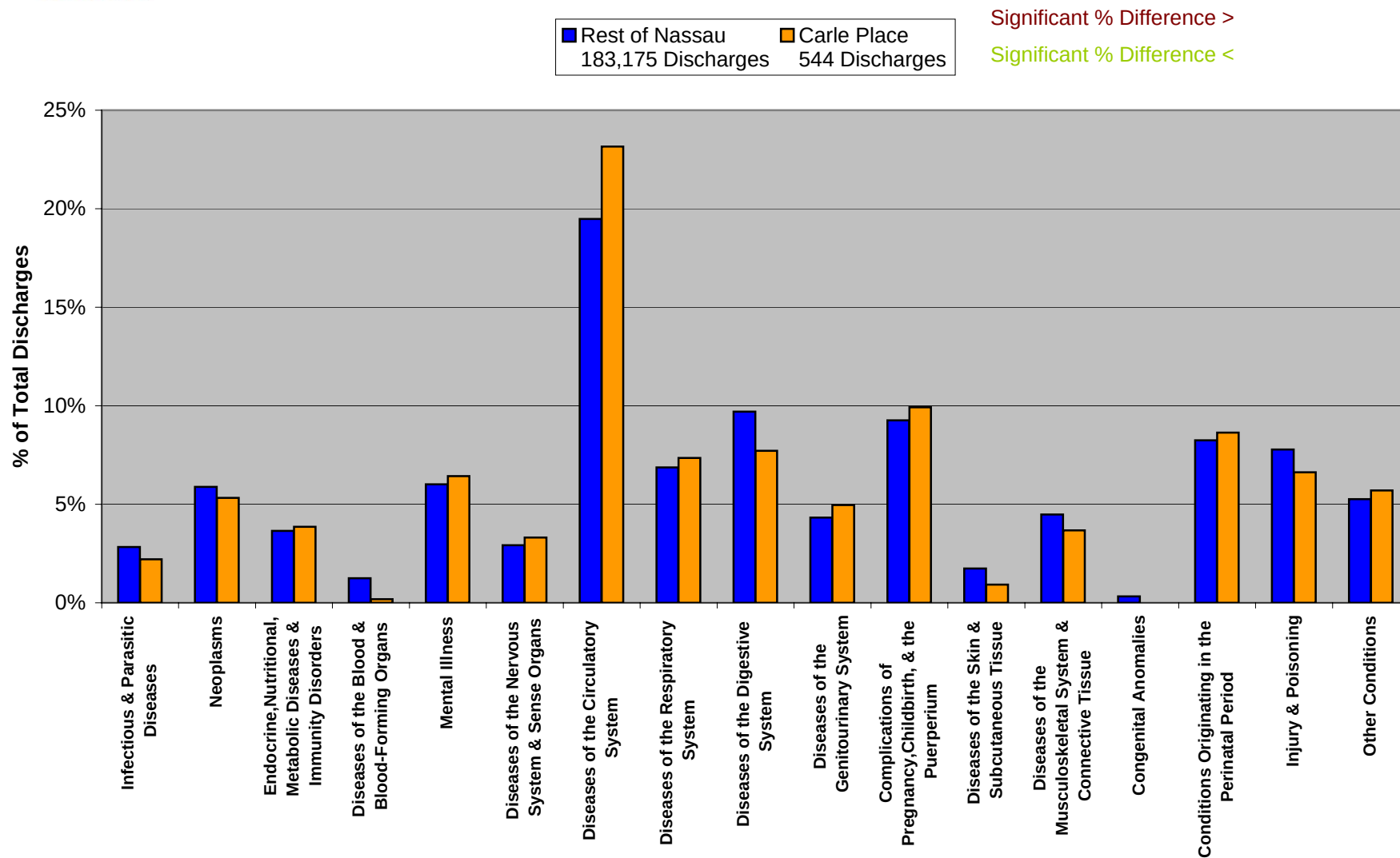
Bellmore Hospital Discharges 2008 by Clustered Diagnoses (CCS)



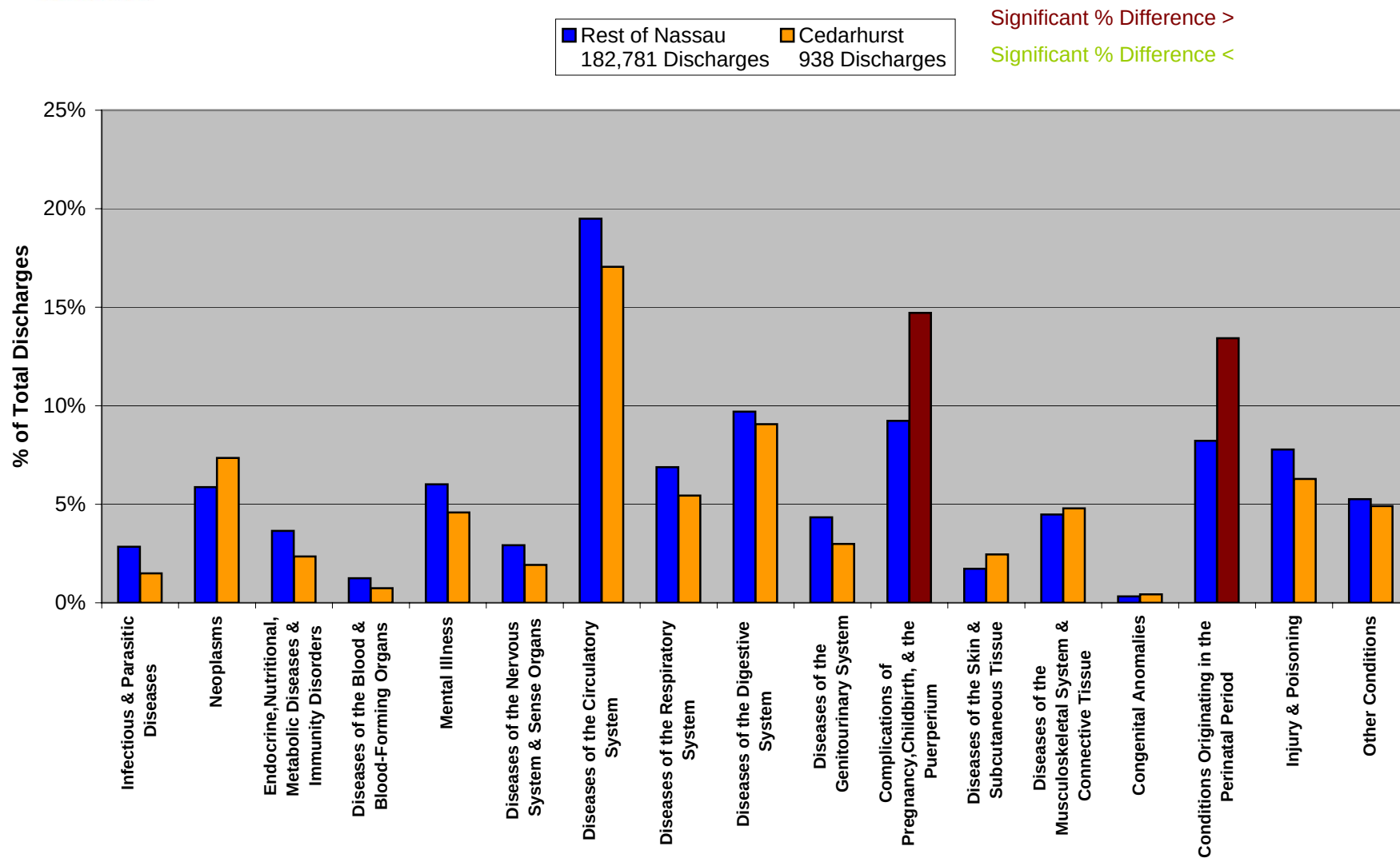
Bethpage Hospital Discharges 2008 by Clustered Diagnoses (CCS)



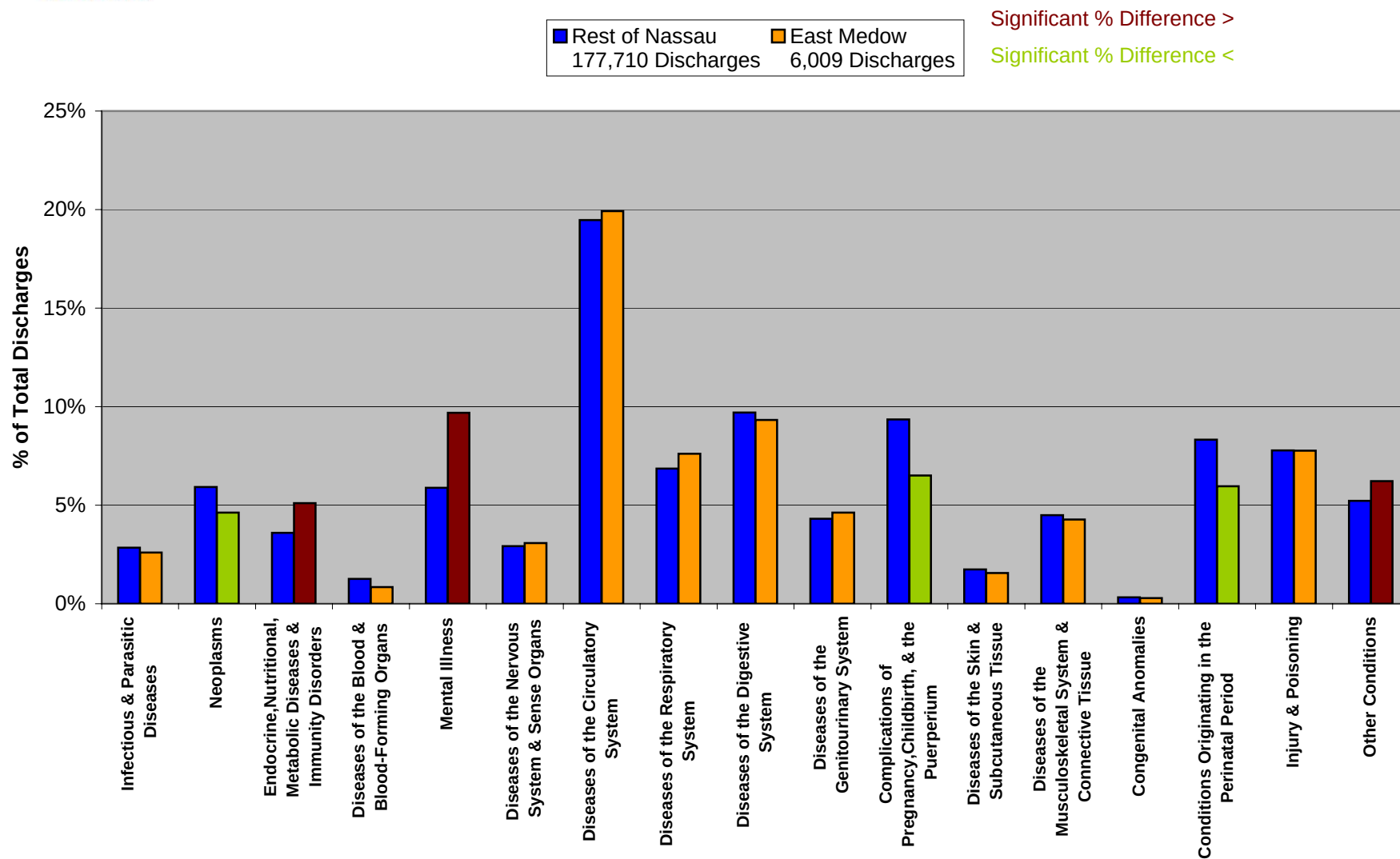
Carle Place Hospital Discharges 2008 by Clustered Diagnoses (CCS)



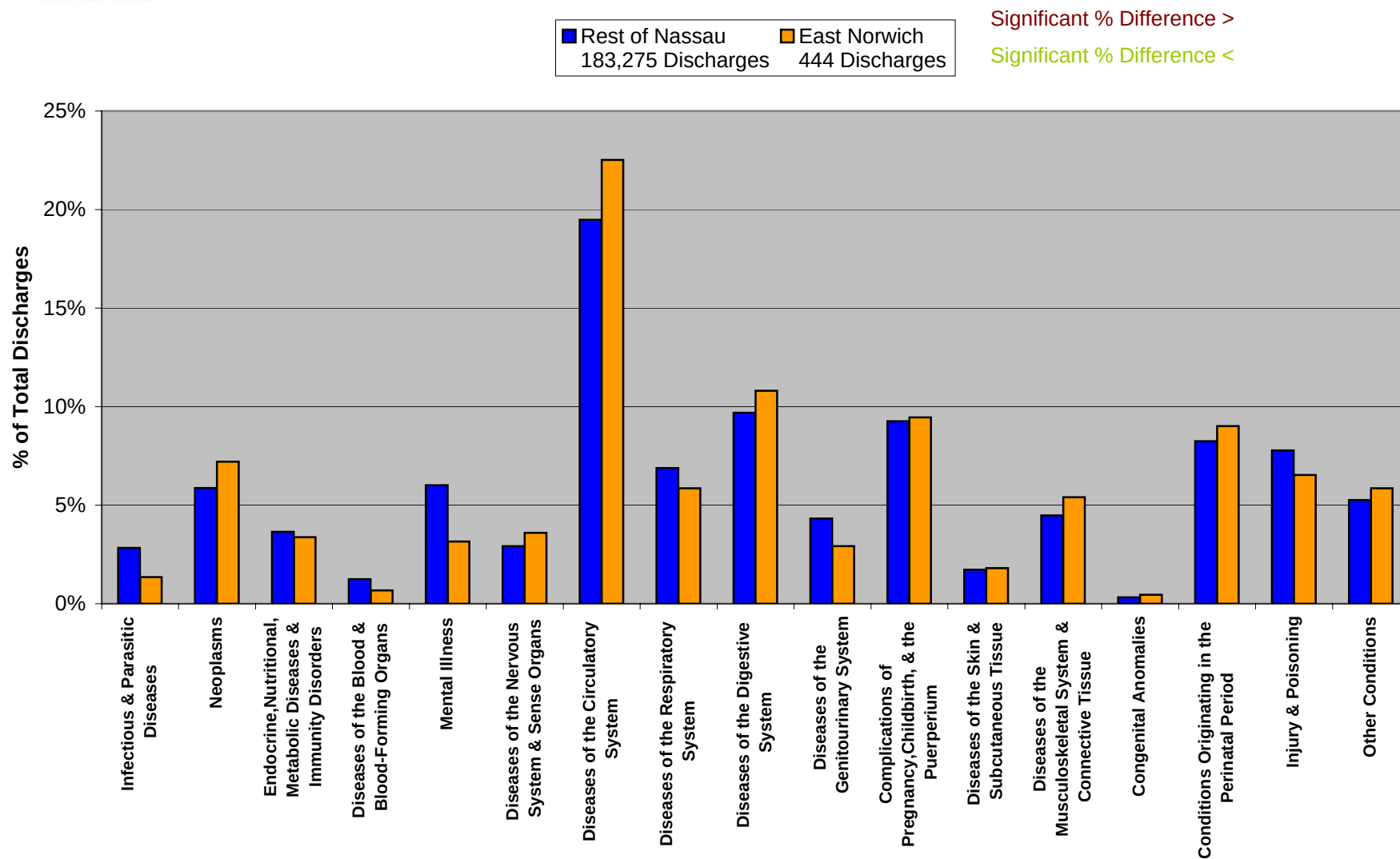
Cedarhurst Hospital Discharges 2008 by Clustered Diagnoses (CCS)



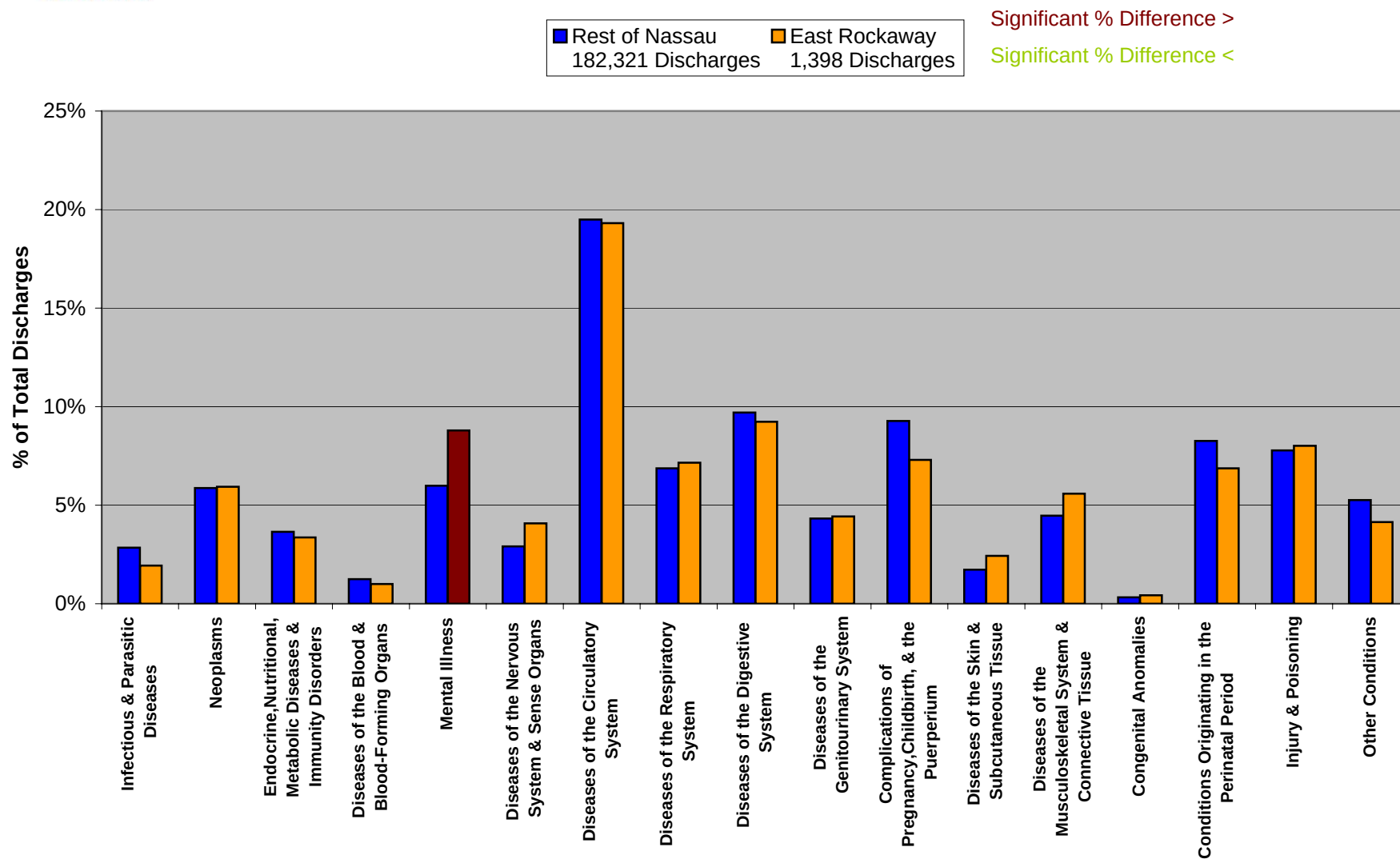
East Medow Hospital Discharges 2008 by Clustered Diagnoses (CCS)



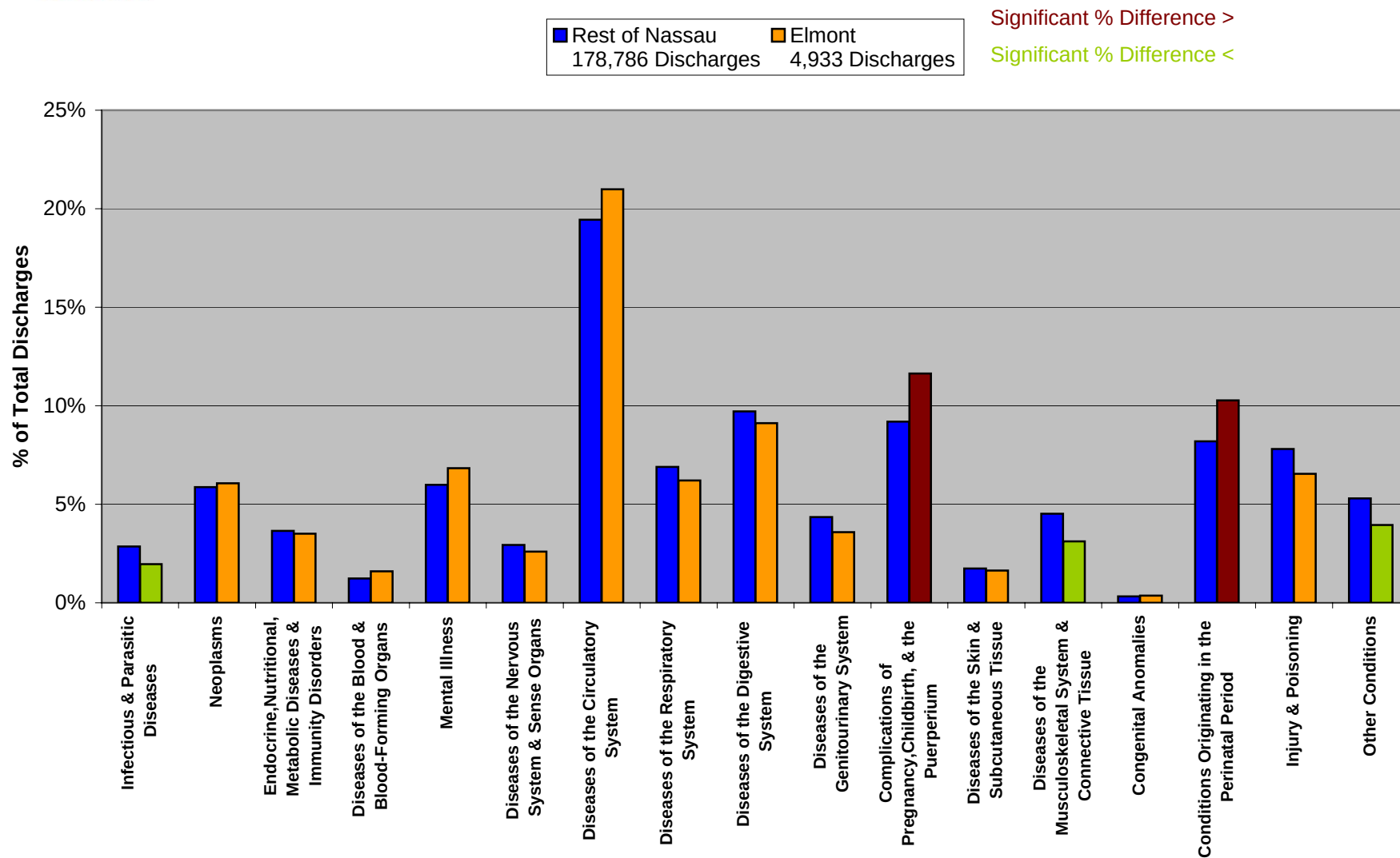
East Norwich Hospital Discharges 2008 by Clustered Diagnoses (CCS)



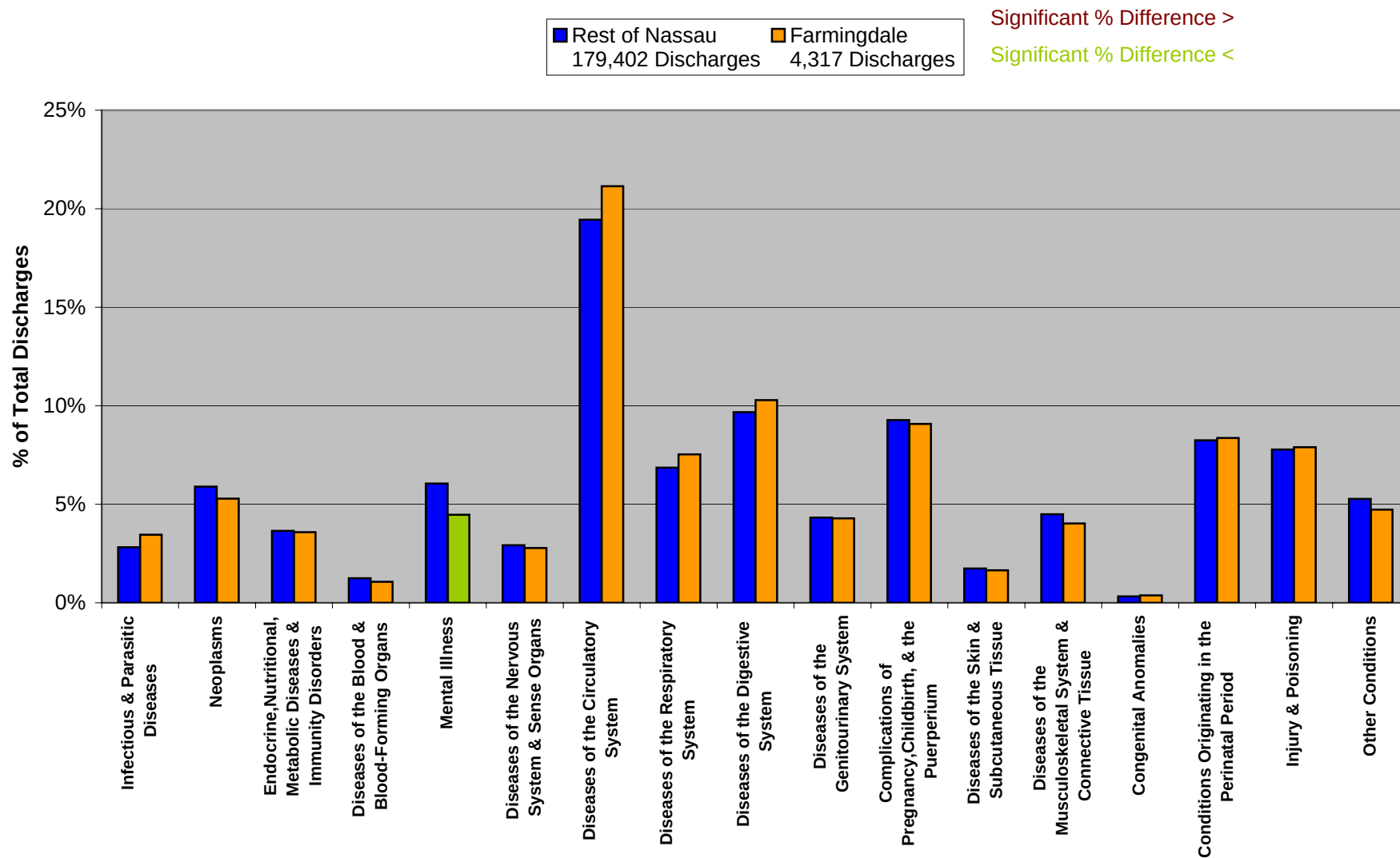
East Rockaway Hospital Discharges 2008 by Clustered Diagnoses (CCS)



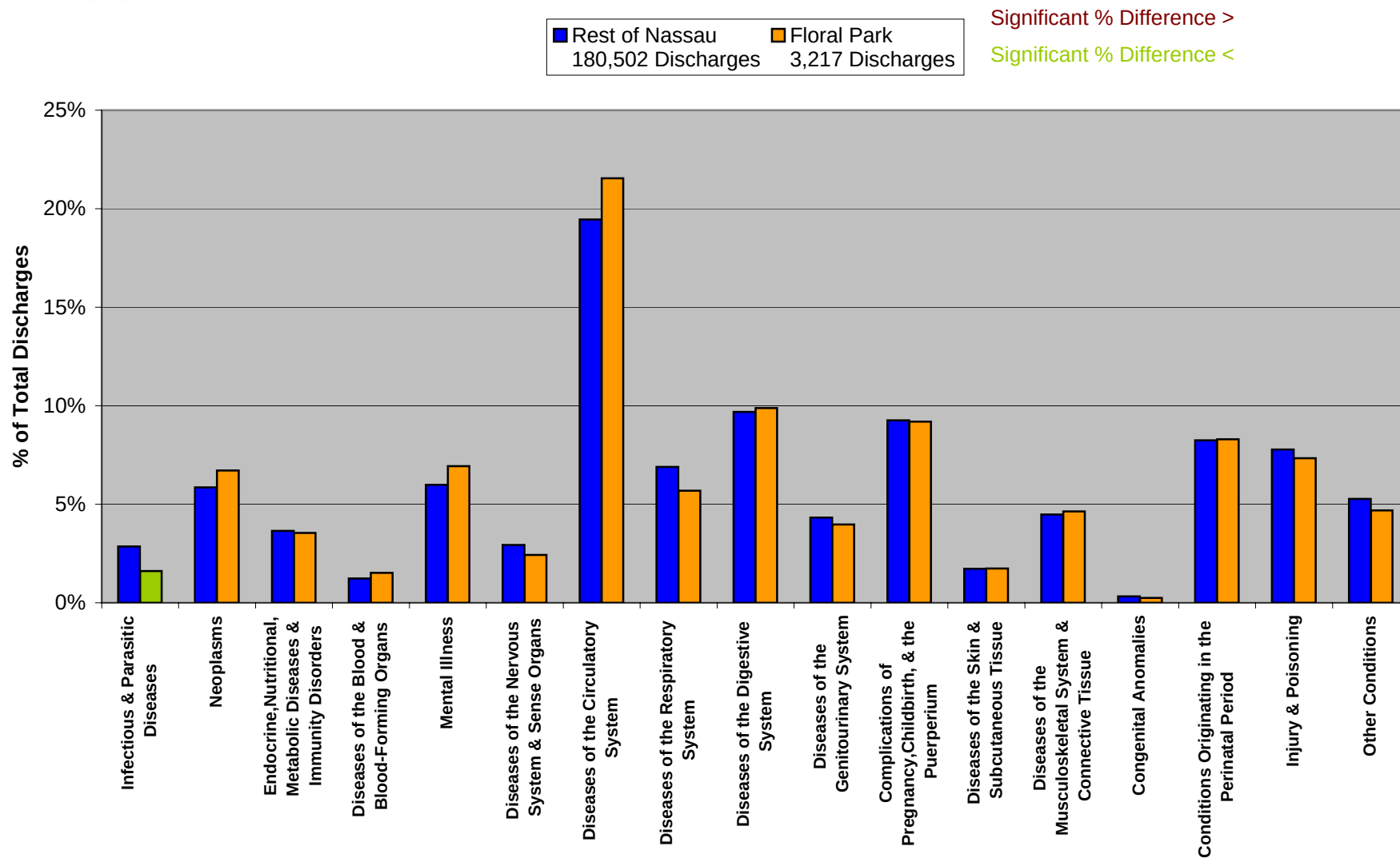
Elmont Hospital Discharges 2008 by Clustered Diagnoses (CCS)



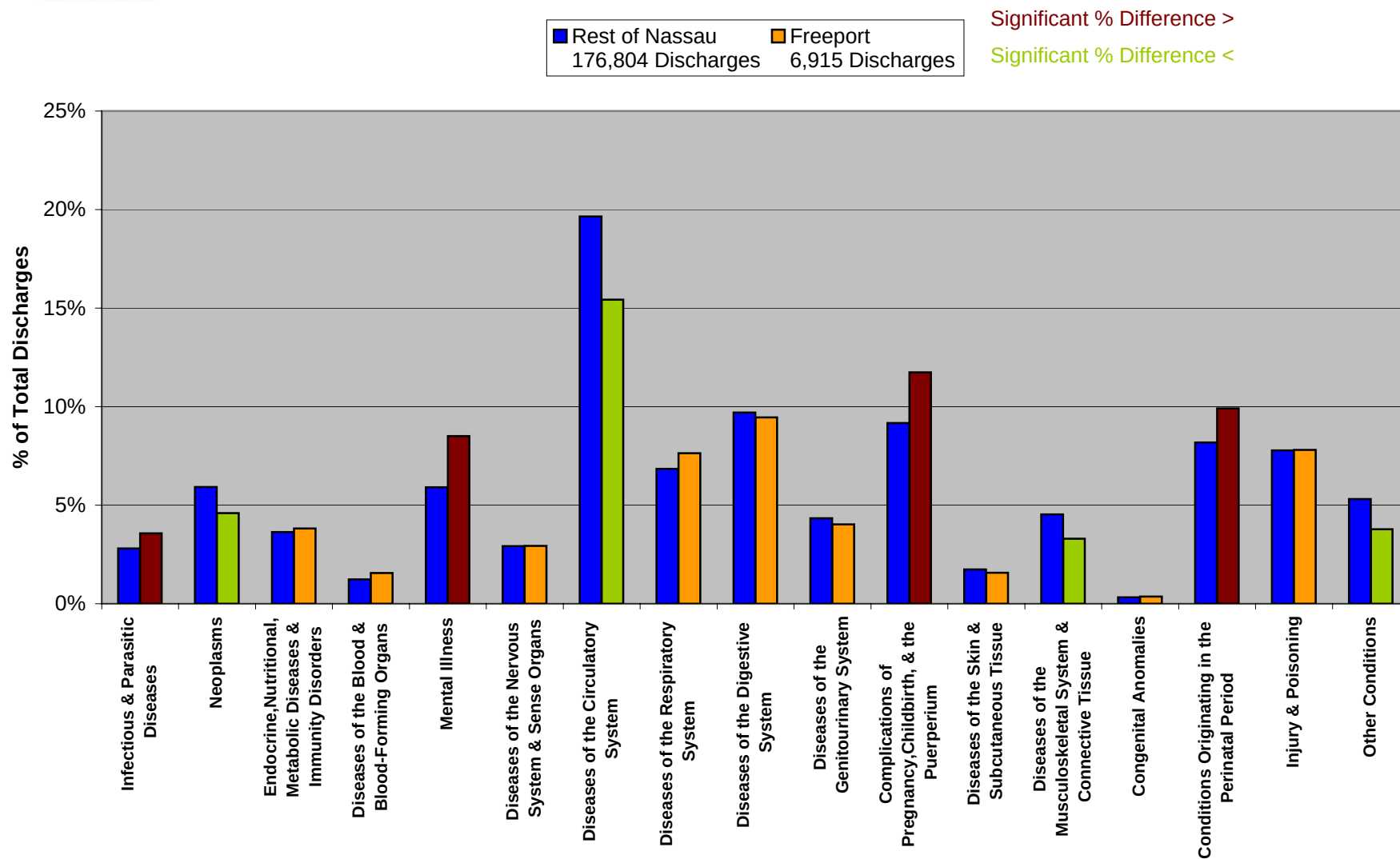
Farmingdale Hospital Discharges 2008 by Clustered Diagnoses (CCS)



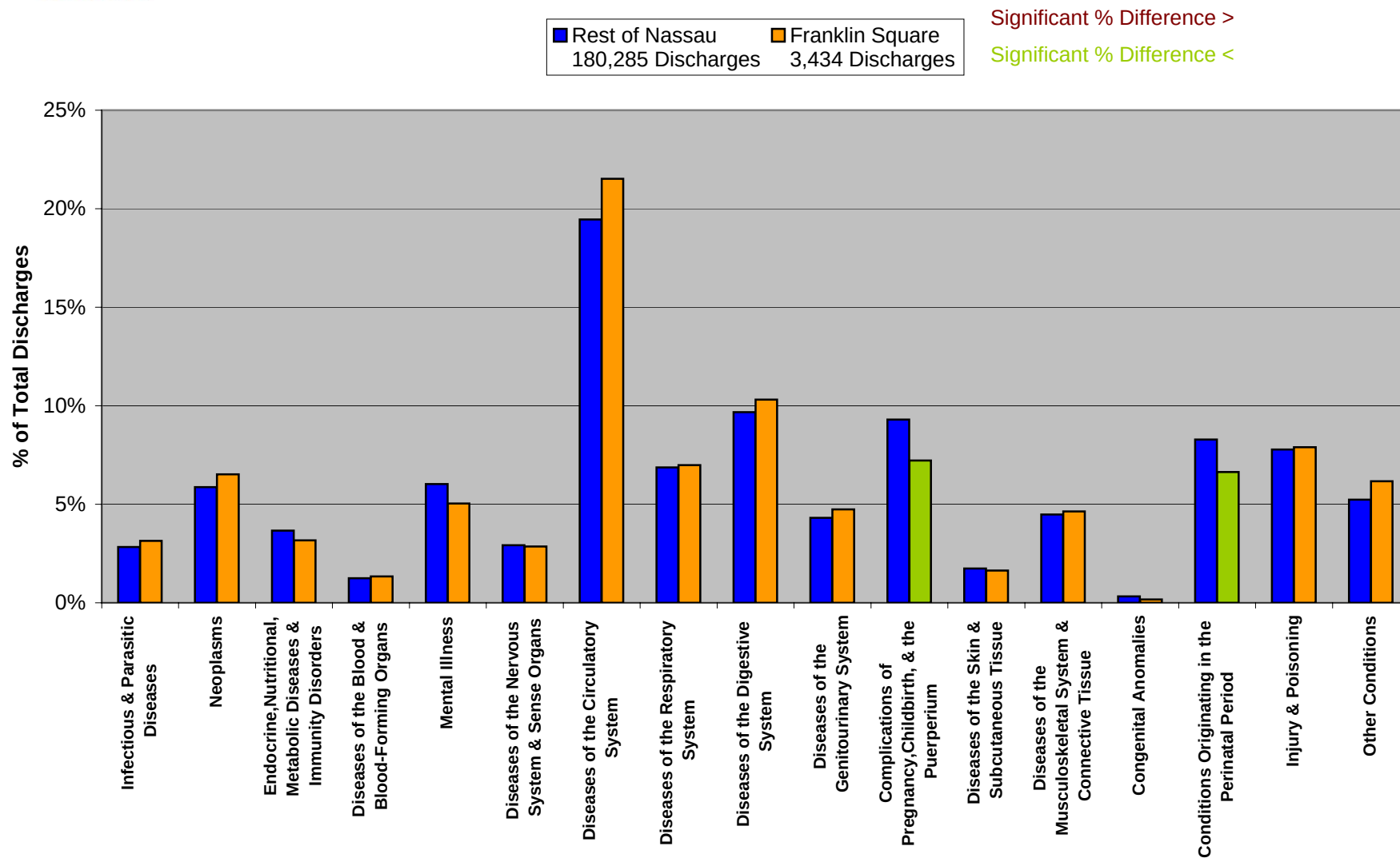
Floral Park Hospital Discharges 2008 by Clustered Diagnoses (CCS)



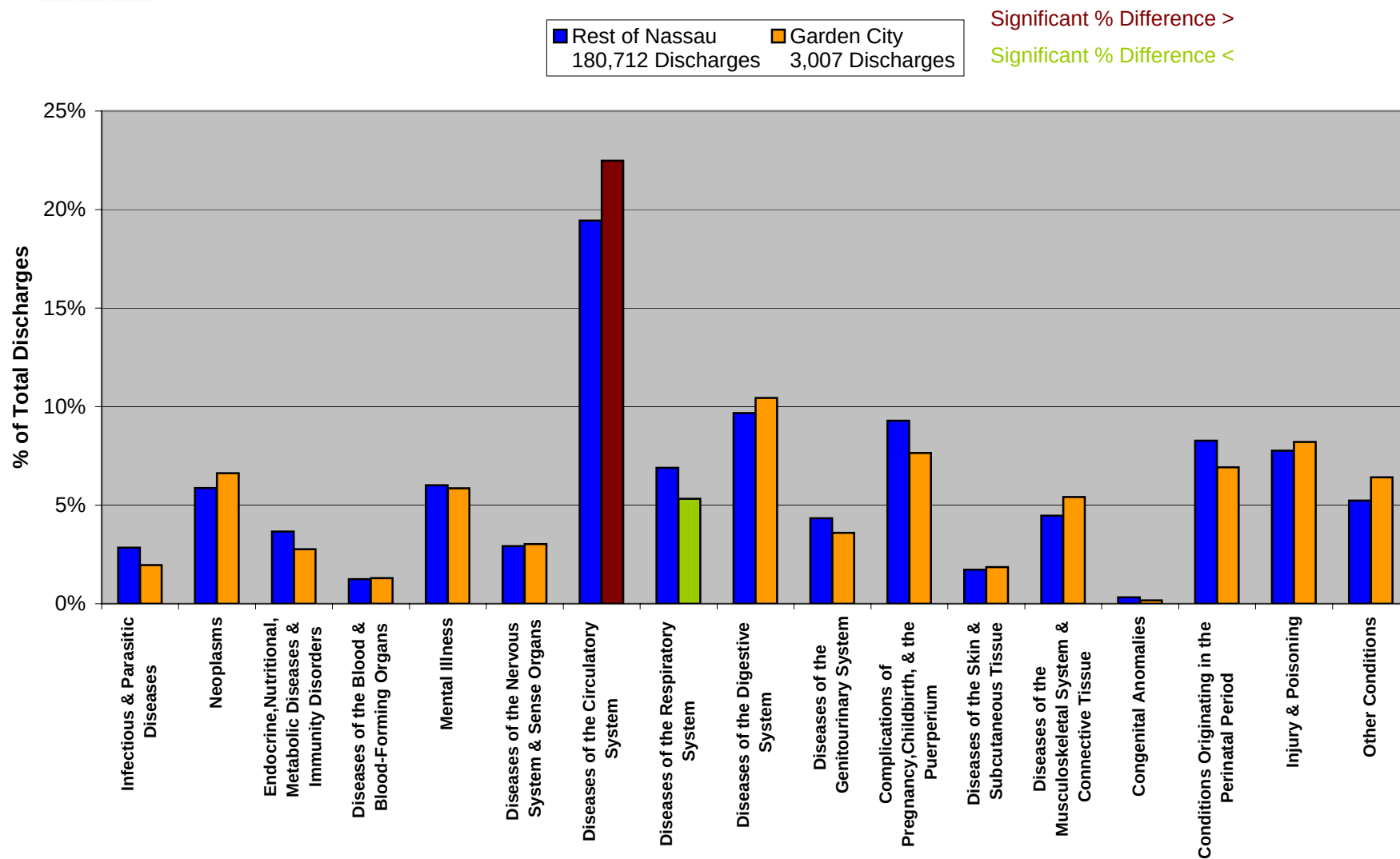
Freeport Hospital Discharges 2008 by Clustered Diagnoses (CCS)



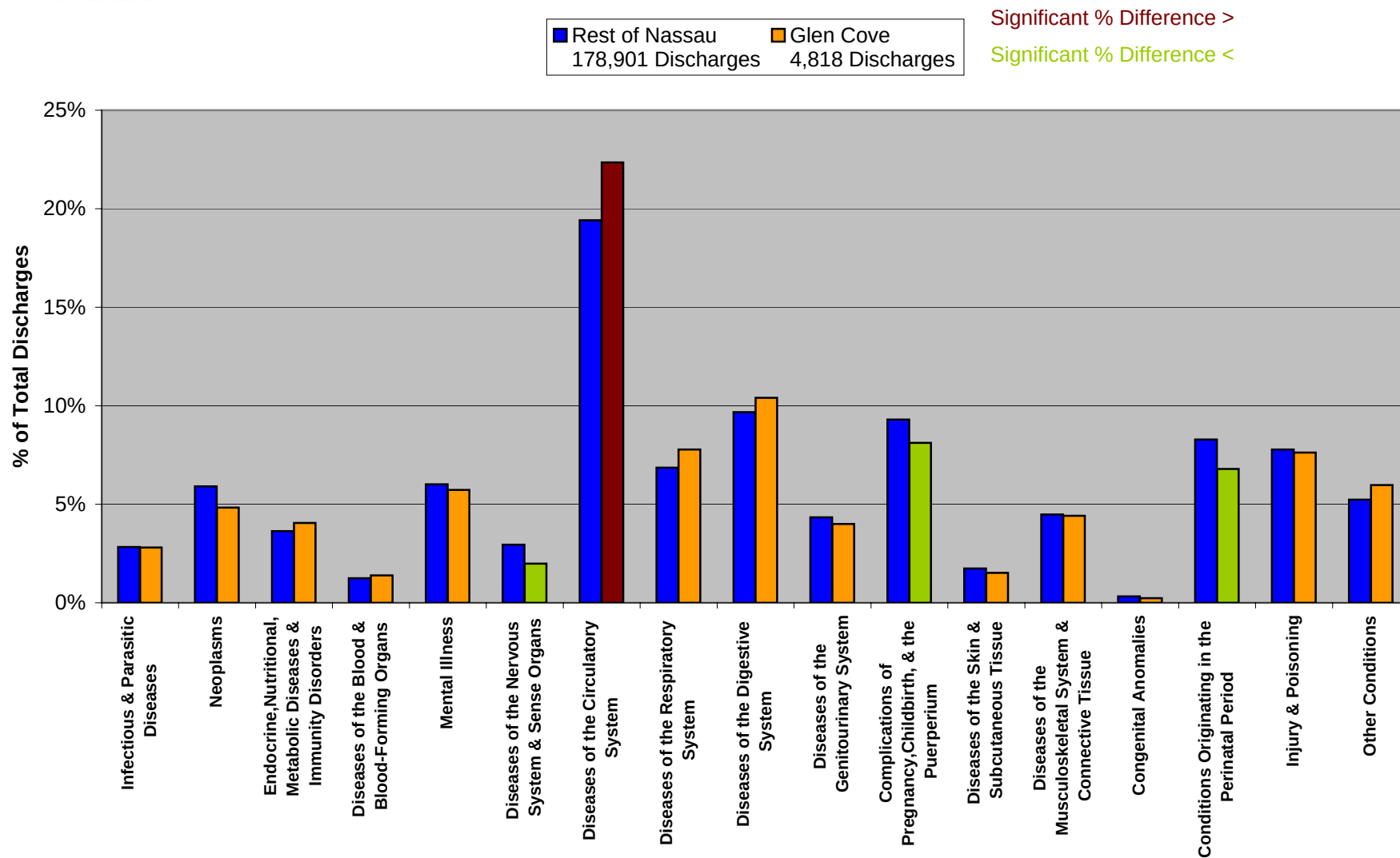
Franklin Square Hospital Discharges 2008 by Clustered Diagnoses (CCS)



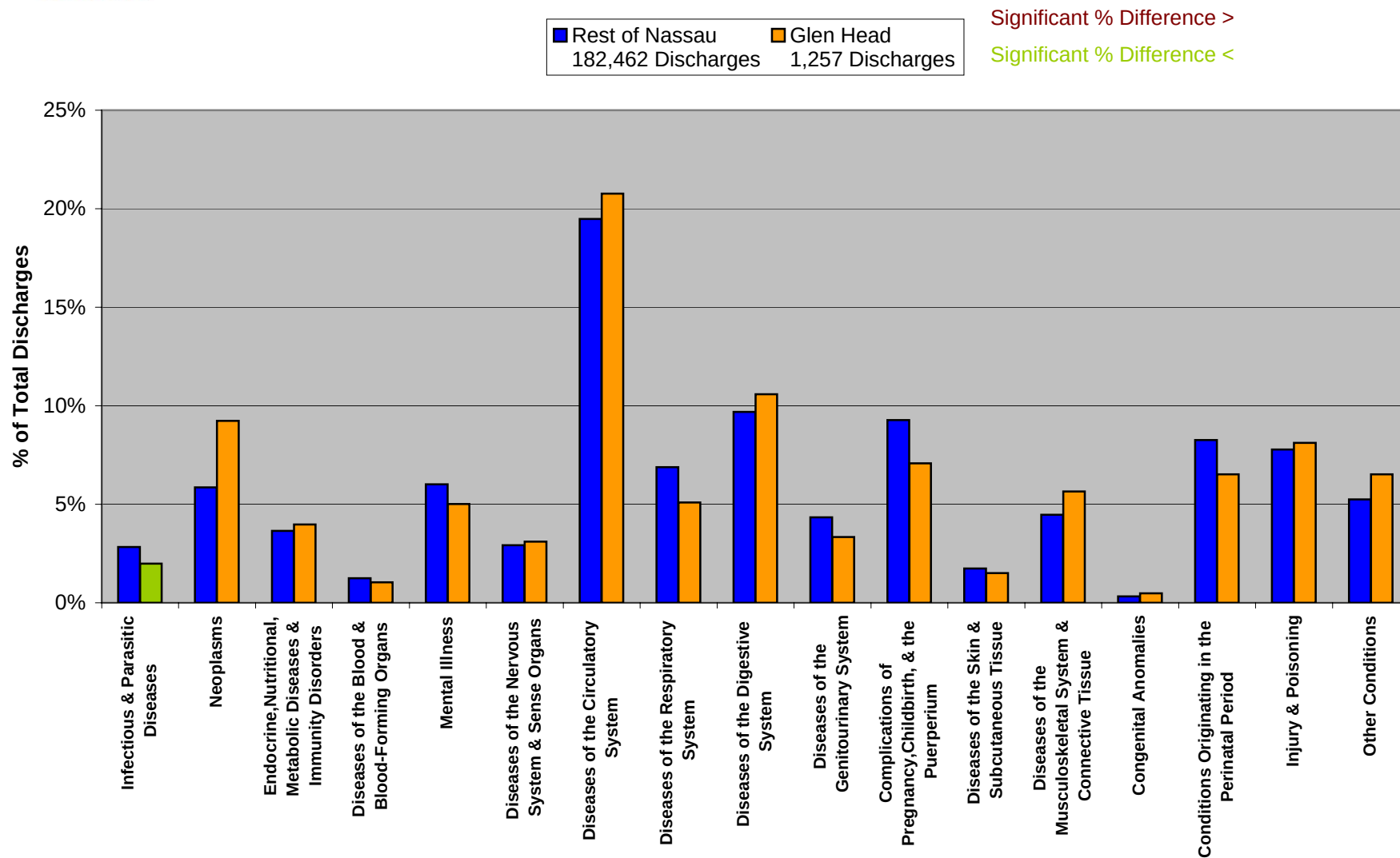
Garden City Hospital Discharges 2008 by Clustered Diagnoses (CCS)



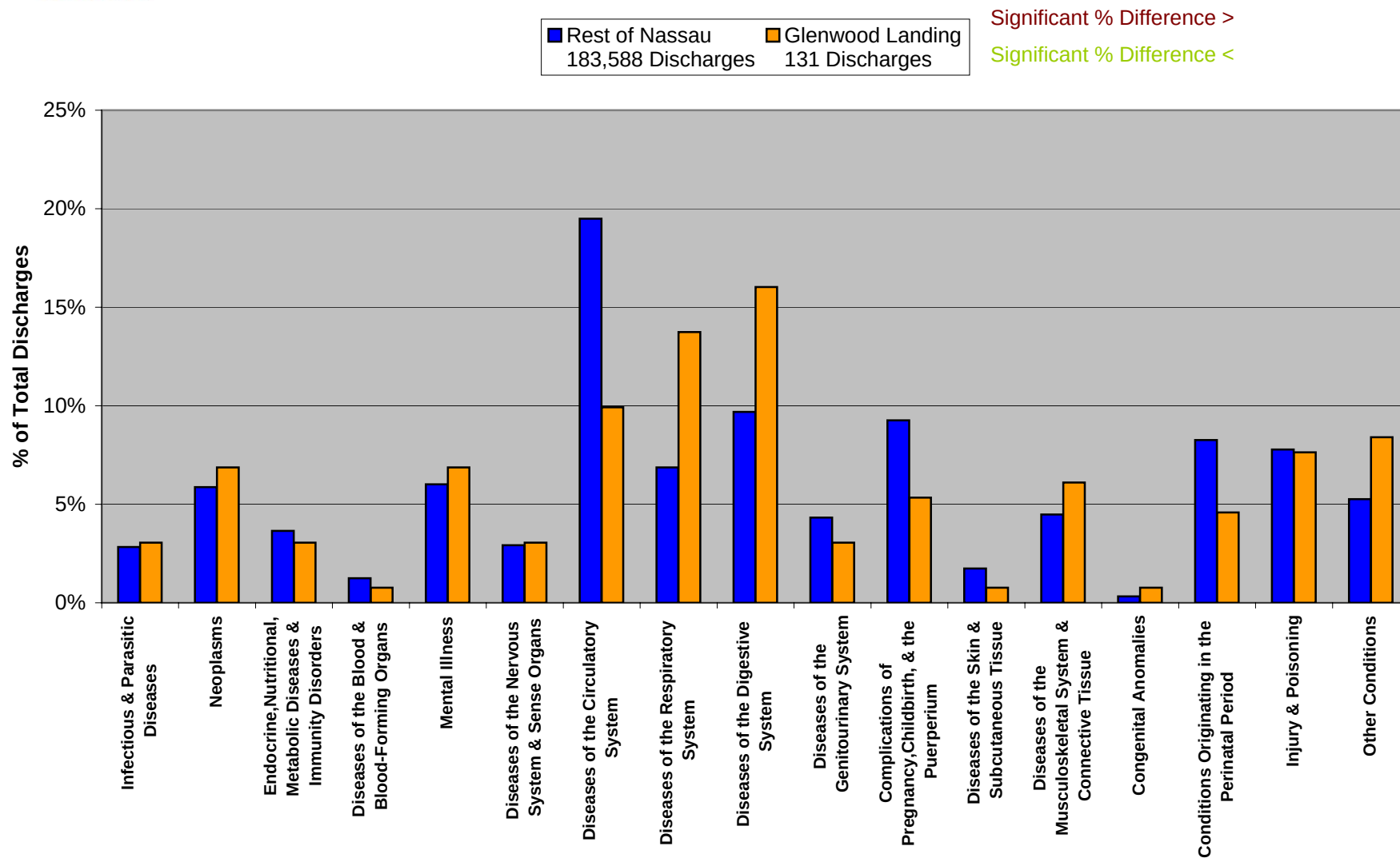
Glen Cove Hospital Discharges 2008 by Clustered Diagnoses (CCS)



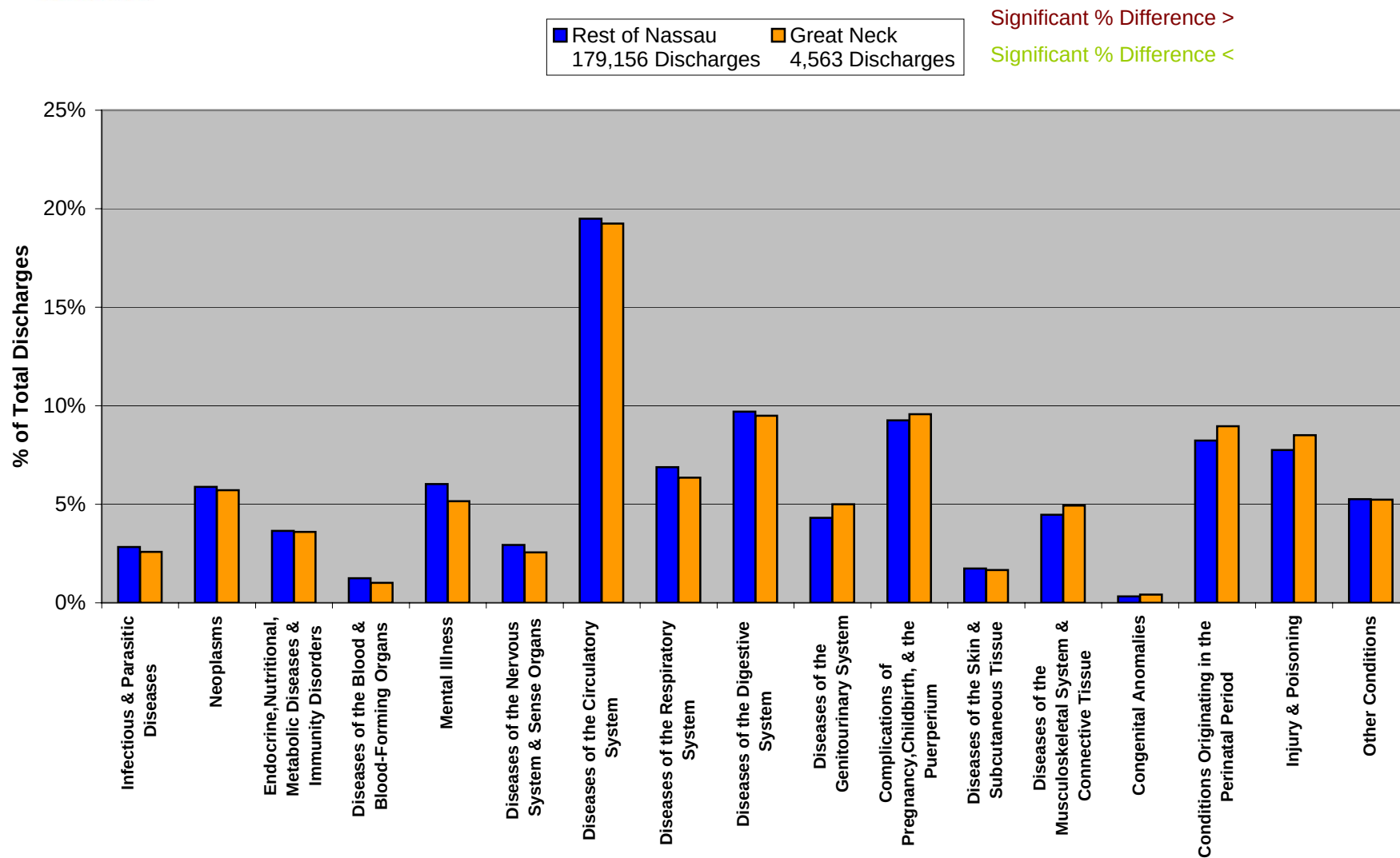
Glen Head Hospital Discharges 2008 by Clustered Diagnoses (CCS)



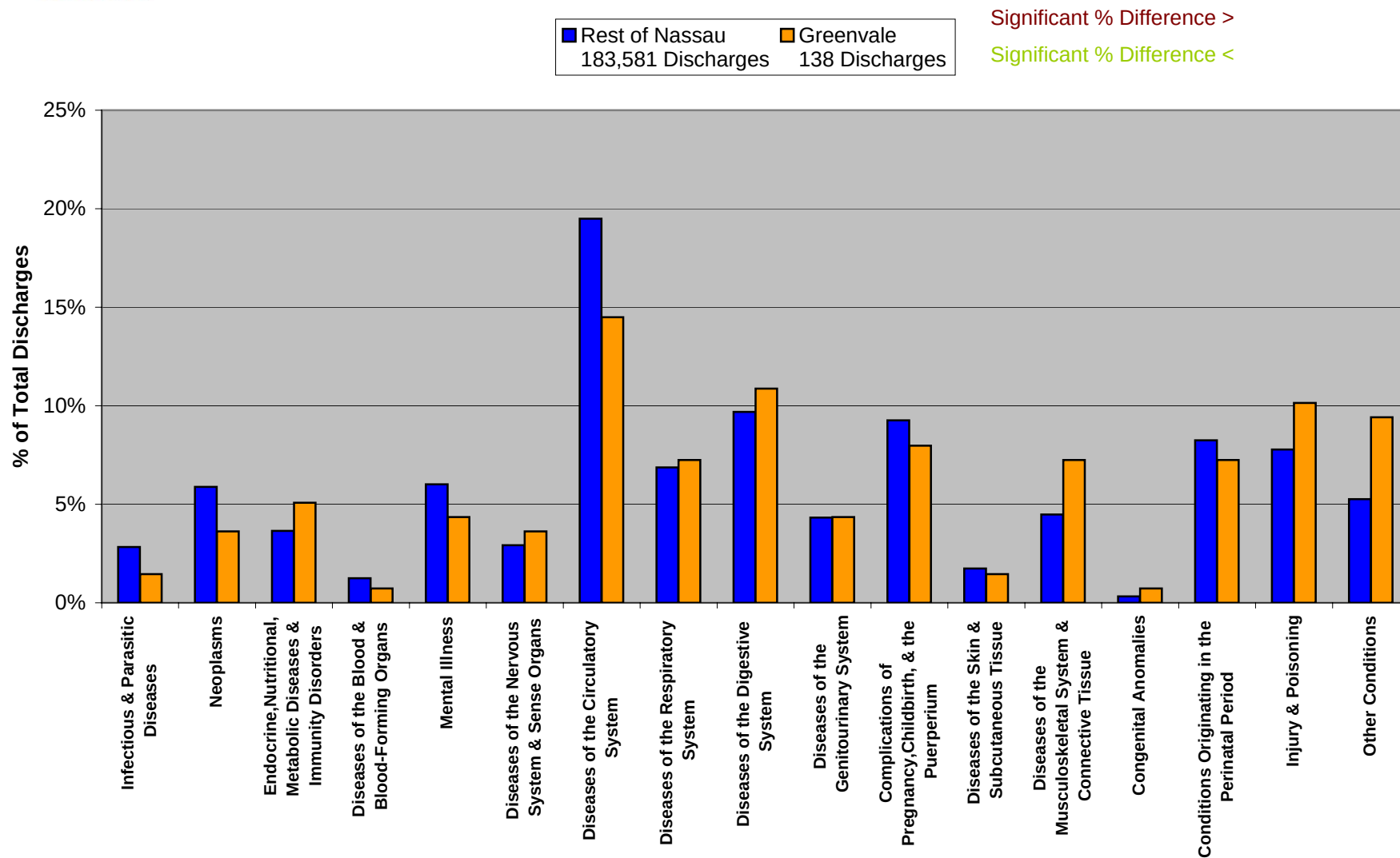
Glenwood Landing Hospital Discharges 2008 by Clustered Diagnoses (CCS)



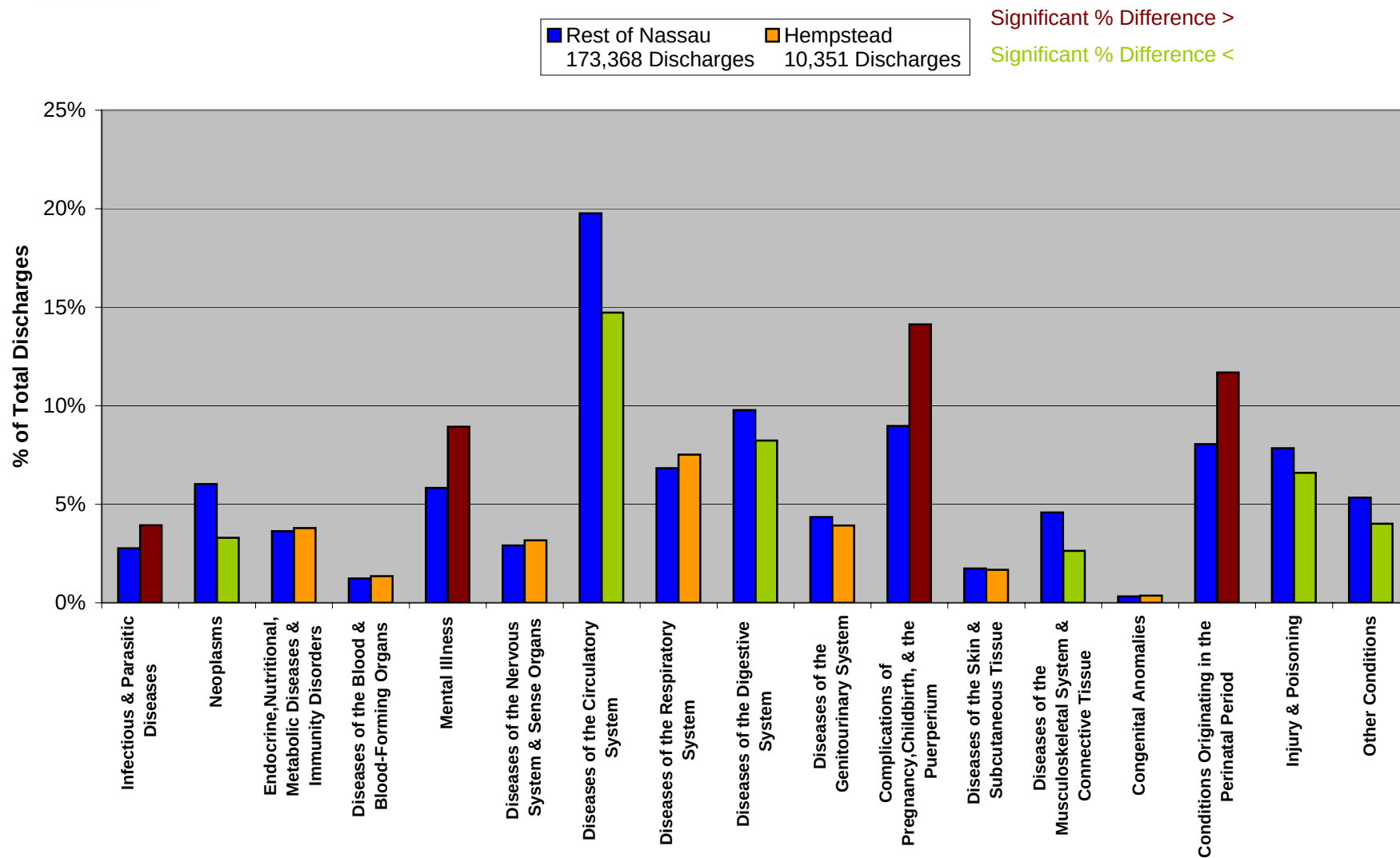
Great Neck Hospital Discharges 2008 by Clustered Diagnoses (CCS)



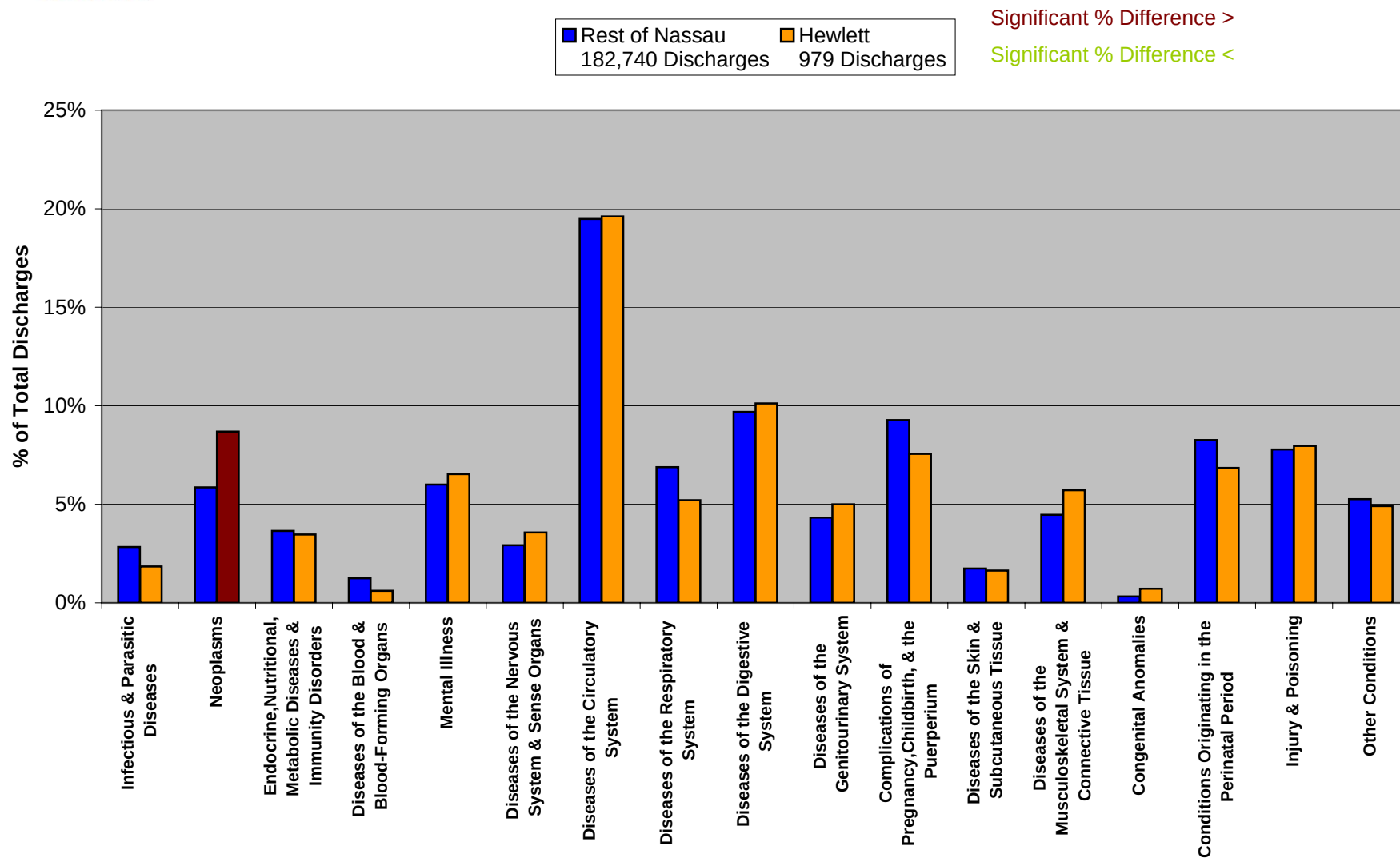
Greenvale Hospital Discharges 2008 by Clustered Diagnoses (CCS)



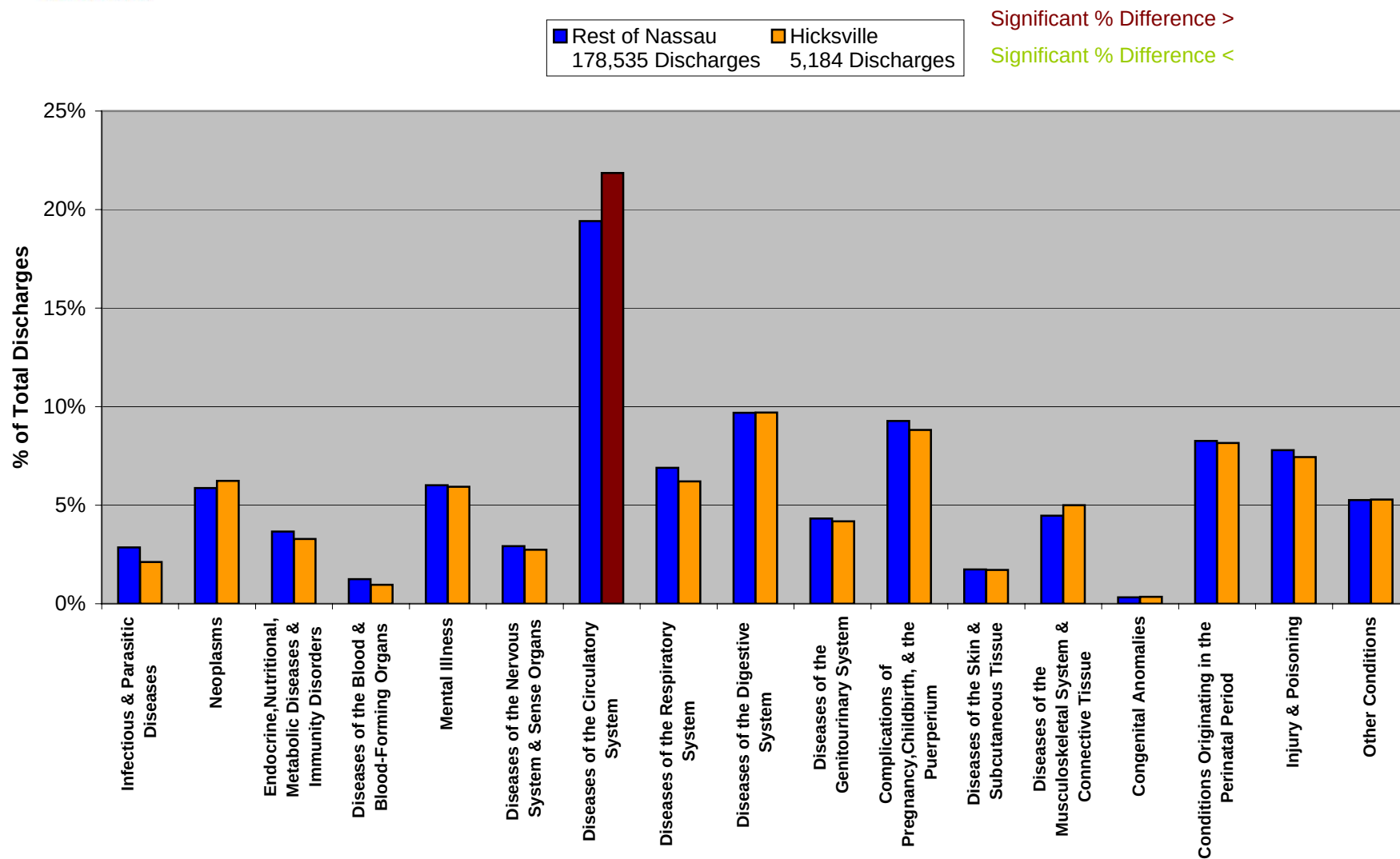
Hempstead Hospital Discharges 2008 by Clustered Diagnoses (CCS)



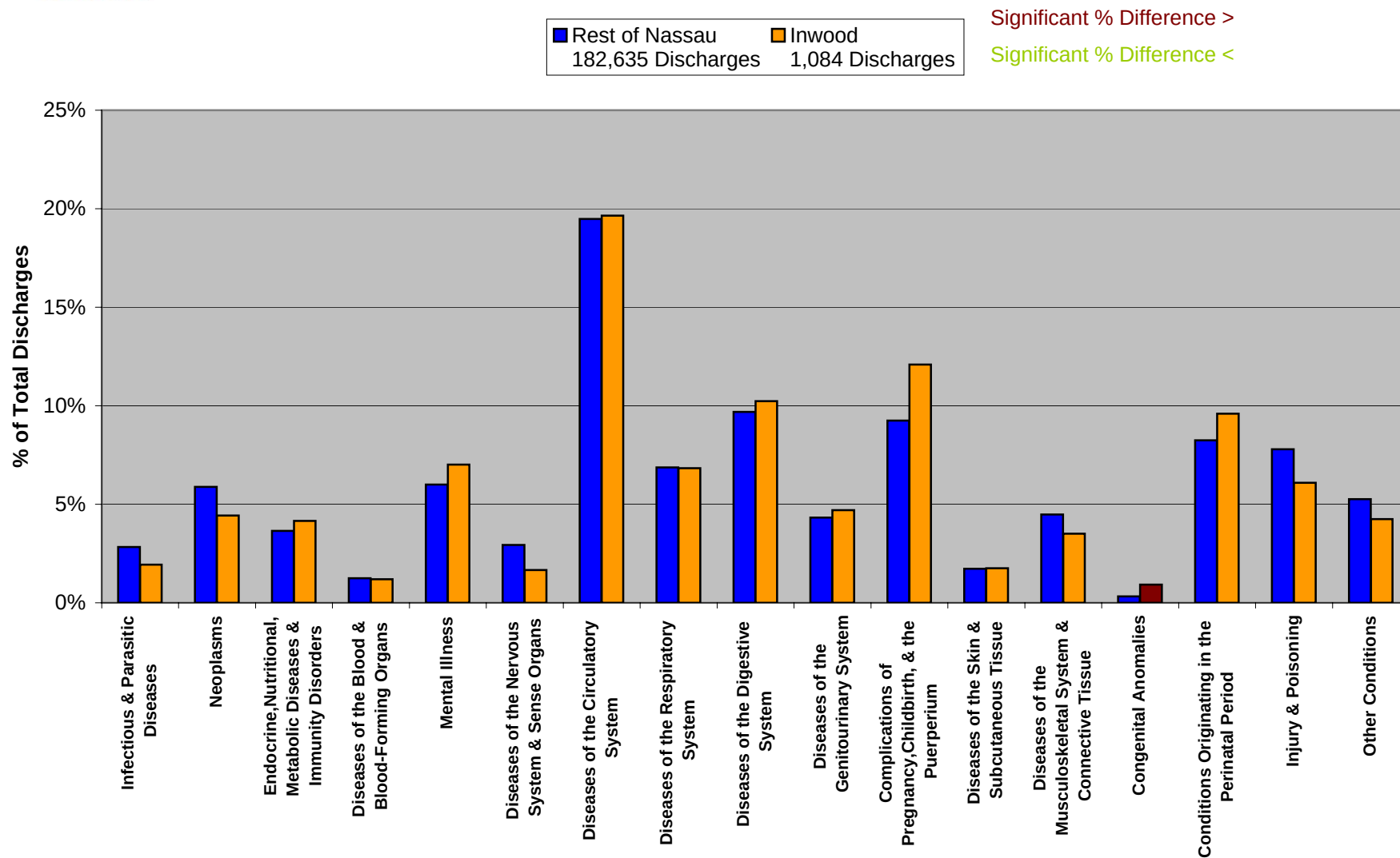
Hewlett Hospital Discharges 2008 by Clustered Diagnoses (CCS)



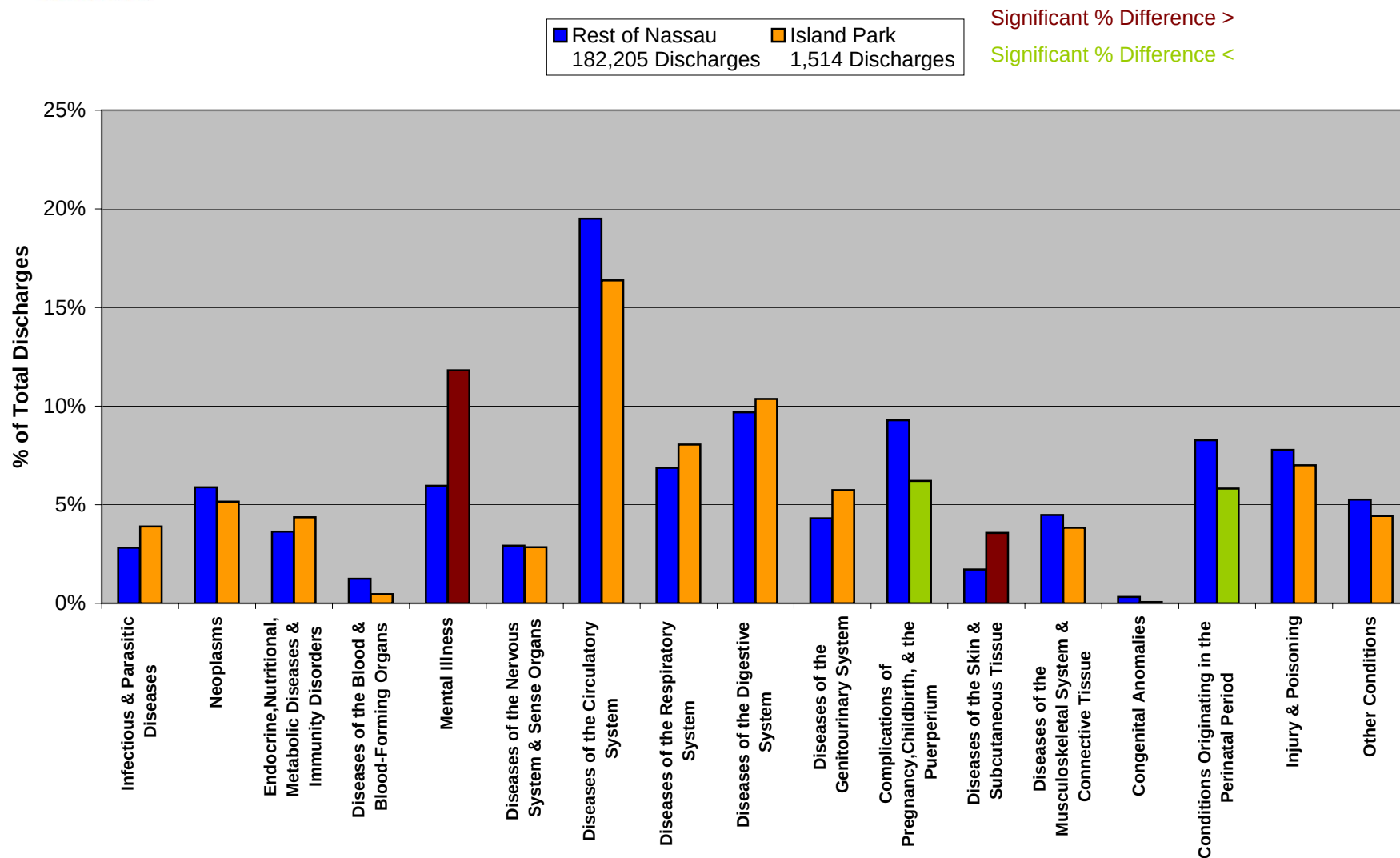
Hicksville Hospital Discharges 2008 by Clustered Diagnoses (CCS)



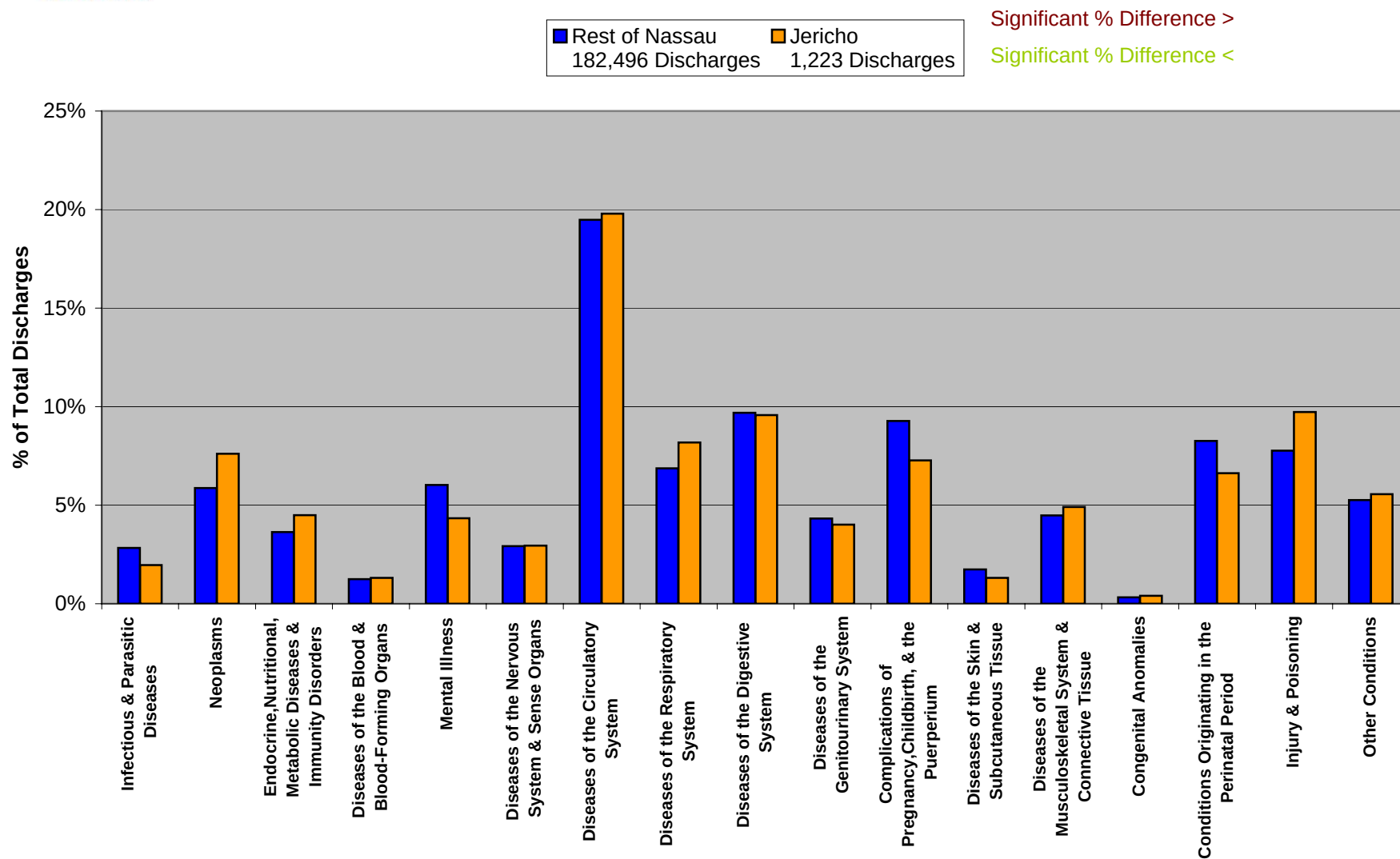
Inwood Hospital Discharges 2008 by Clustered Diagnoses (CCS)



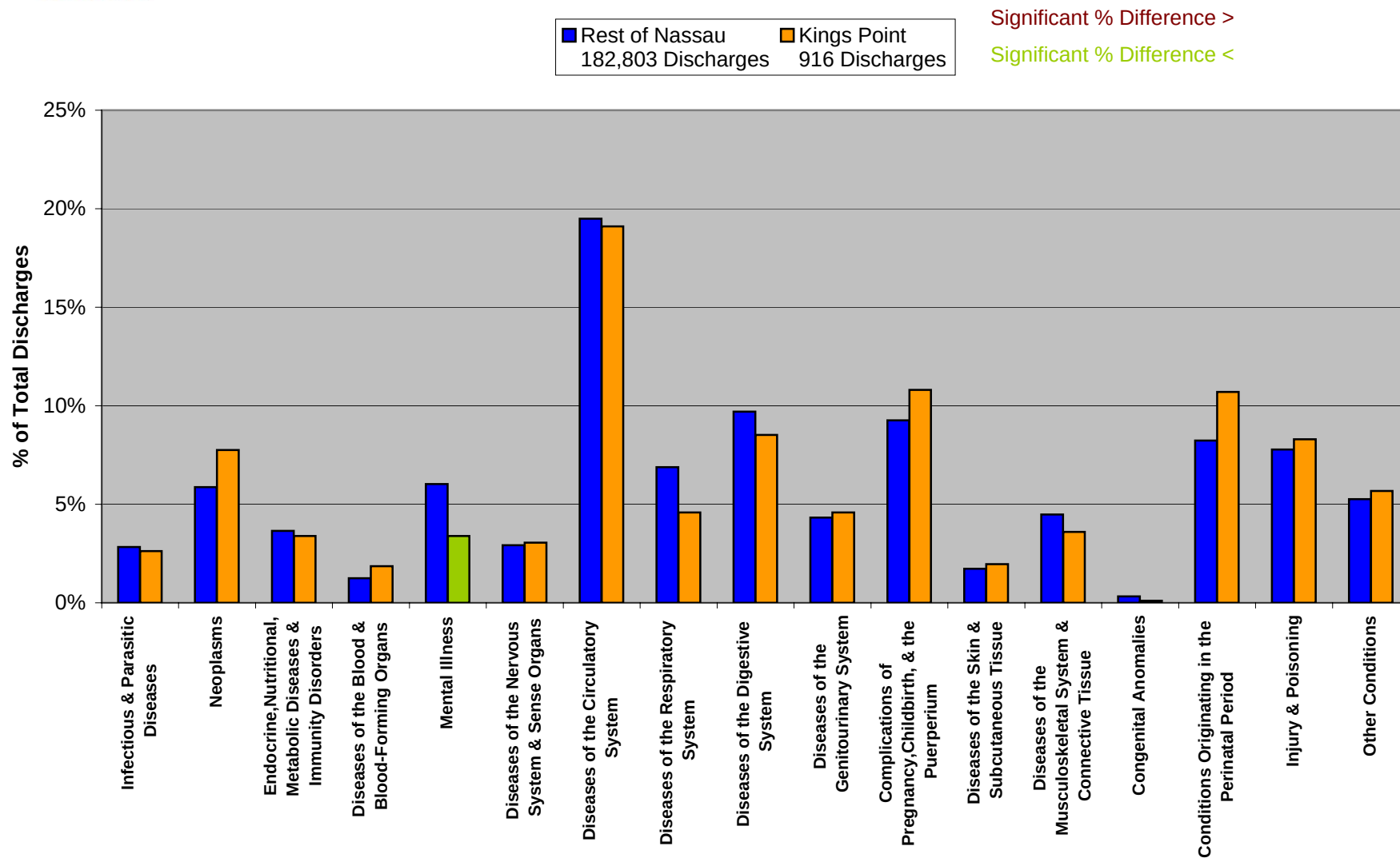
Island Park Hospital Discharges 2008 by Clustered Diagnoses (CCS)



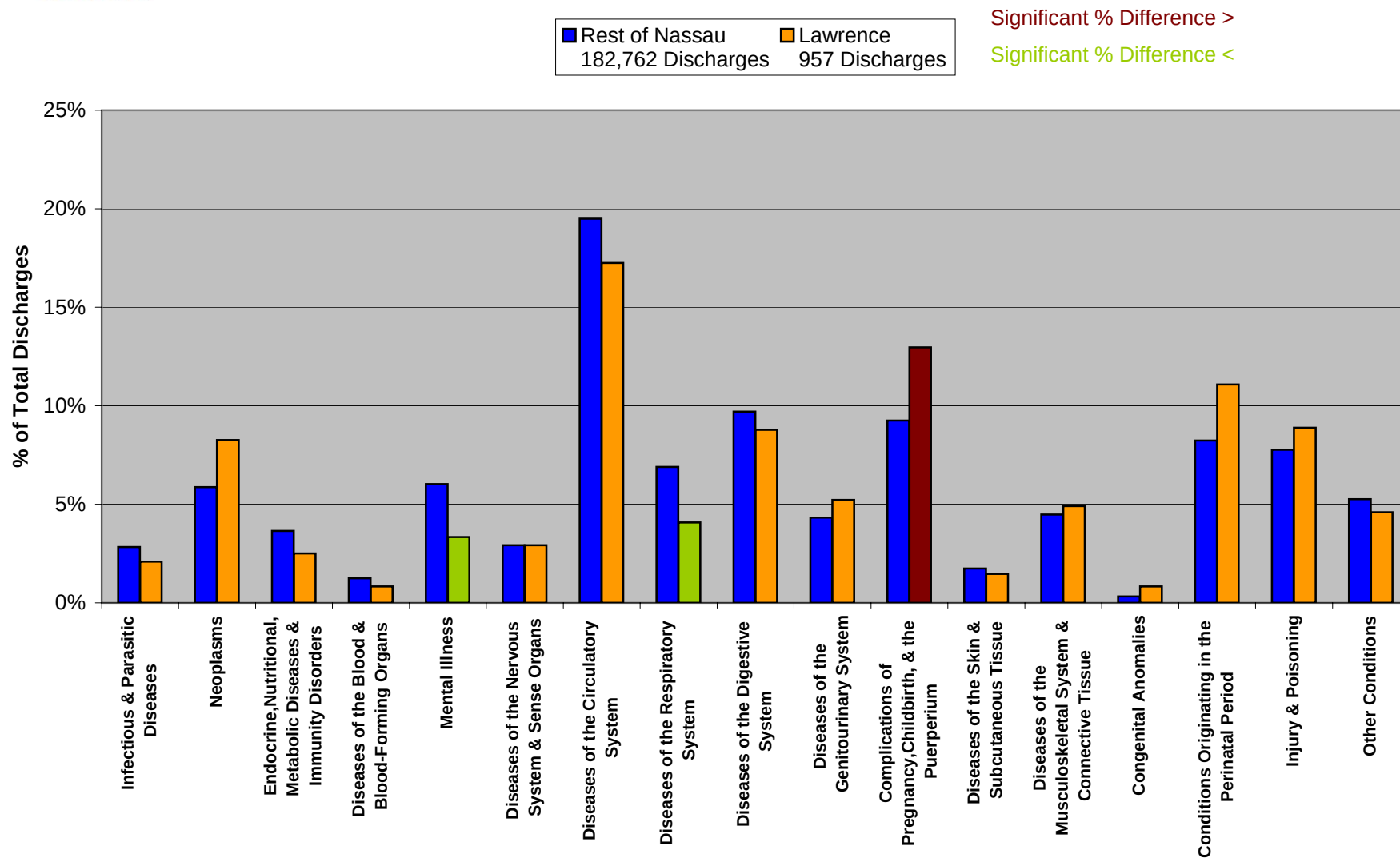
Jericho Hospital Discharges 2008 by Clustered Diagnoses (CCS)



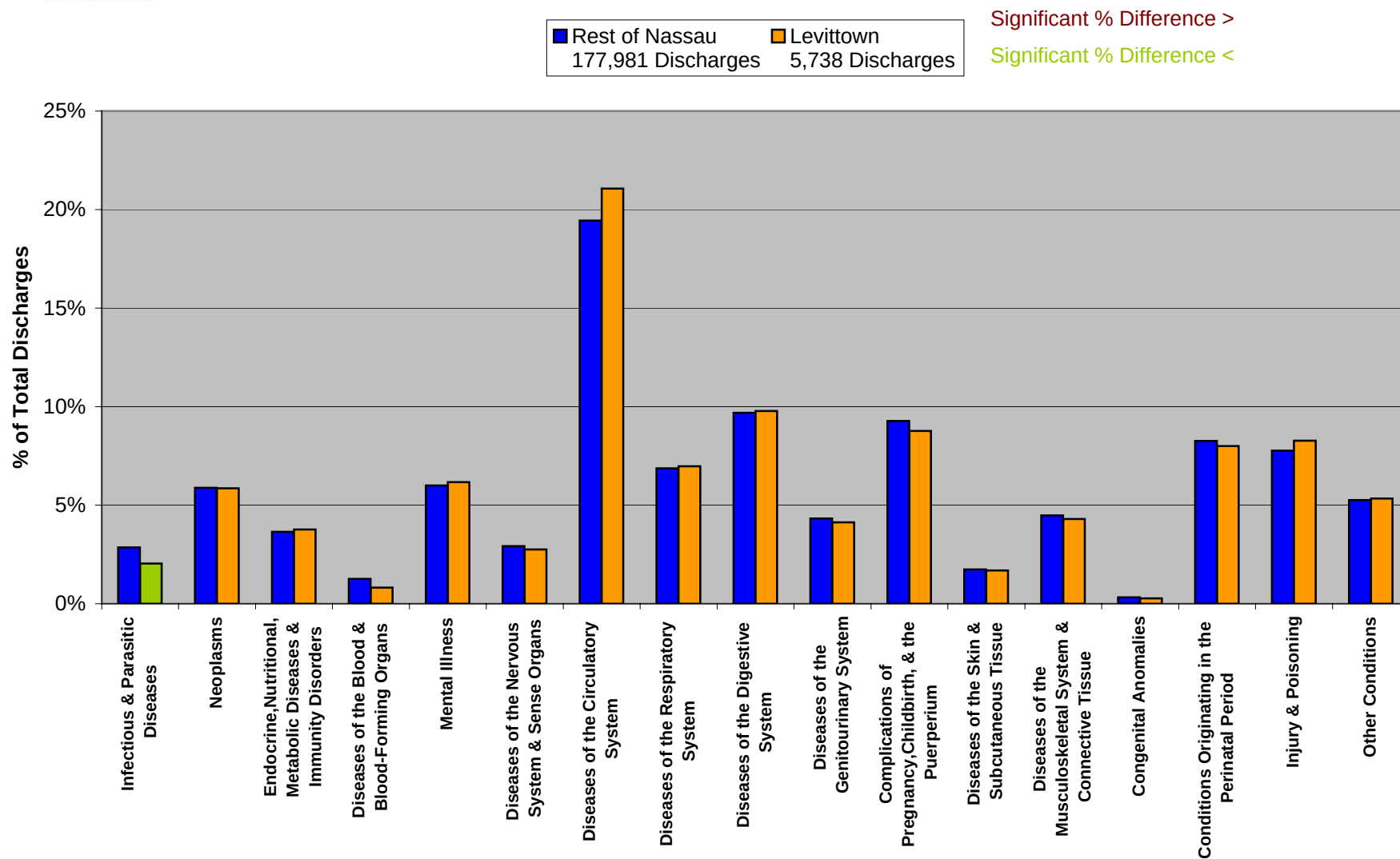
Kings Point Hospital Discharges 2008 by Clustered Diagnoses (CCS)



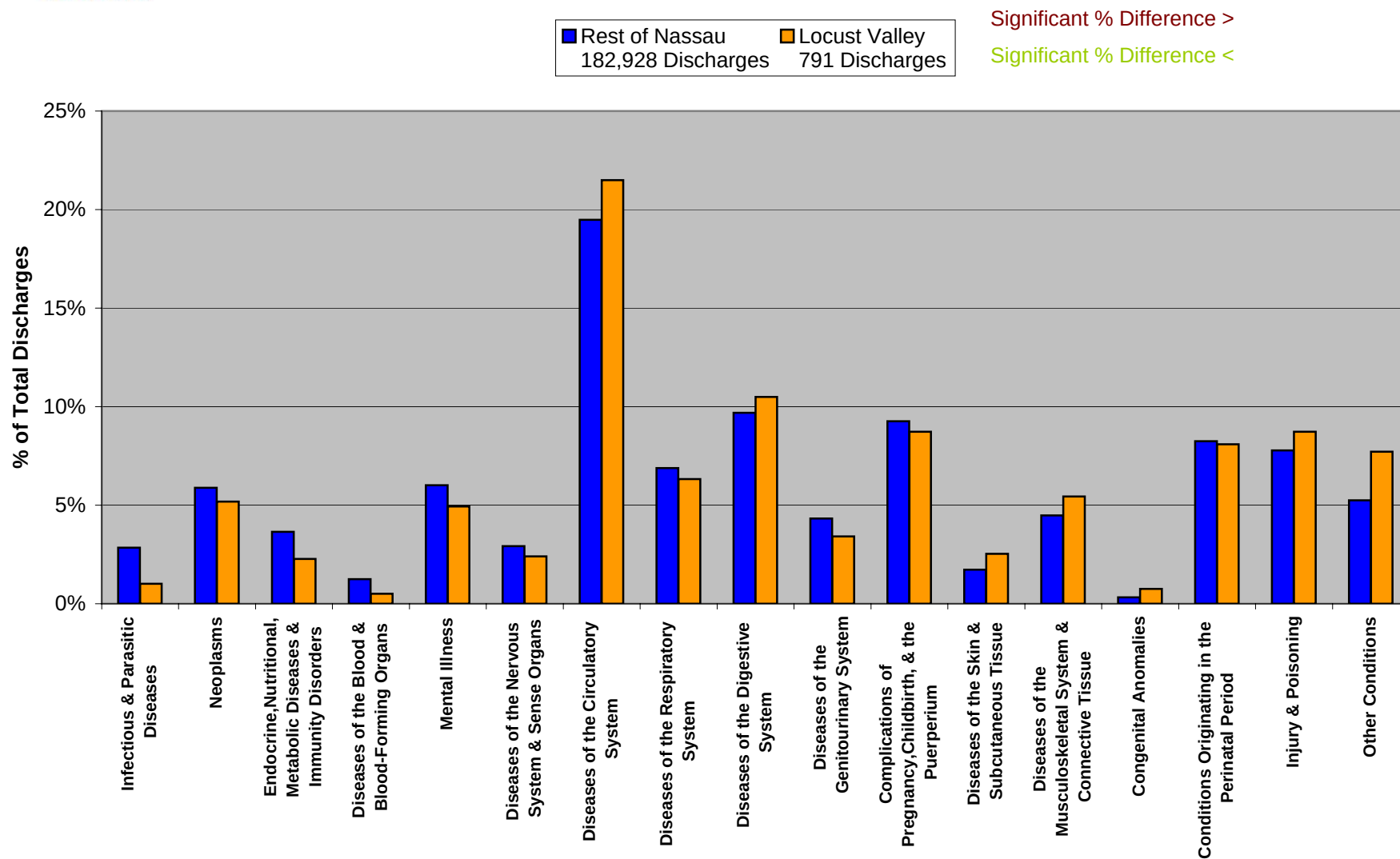
Lawrence Hospital Discharges 2008 by Clustered Diagnoses (CCS)



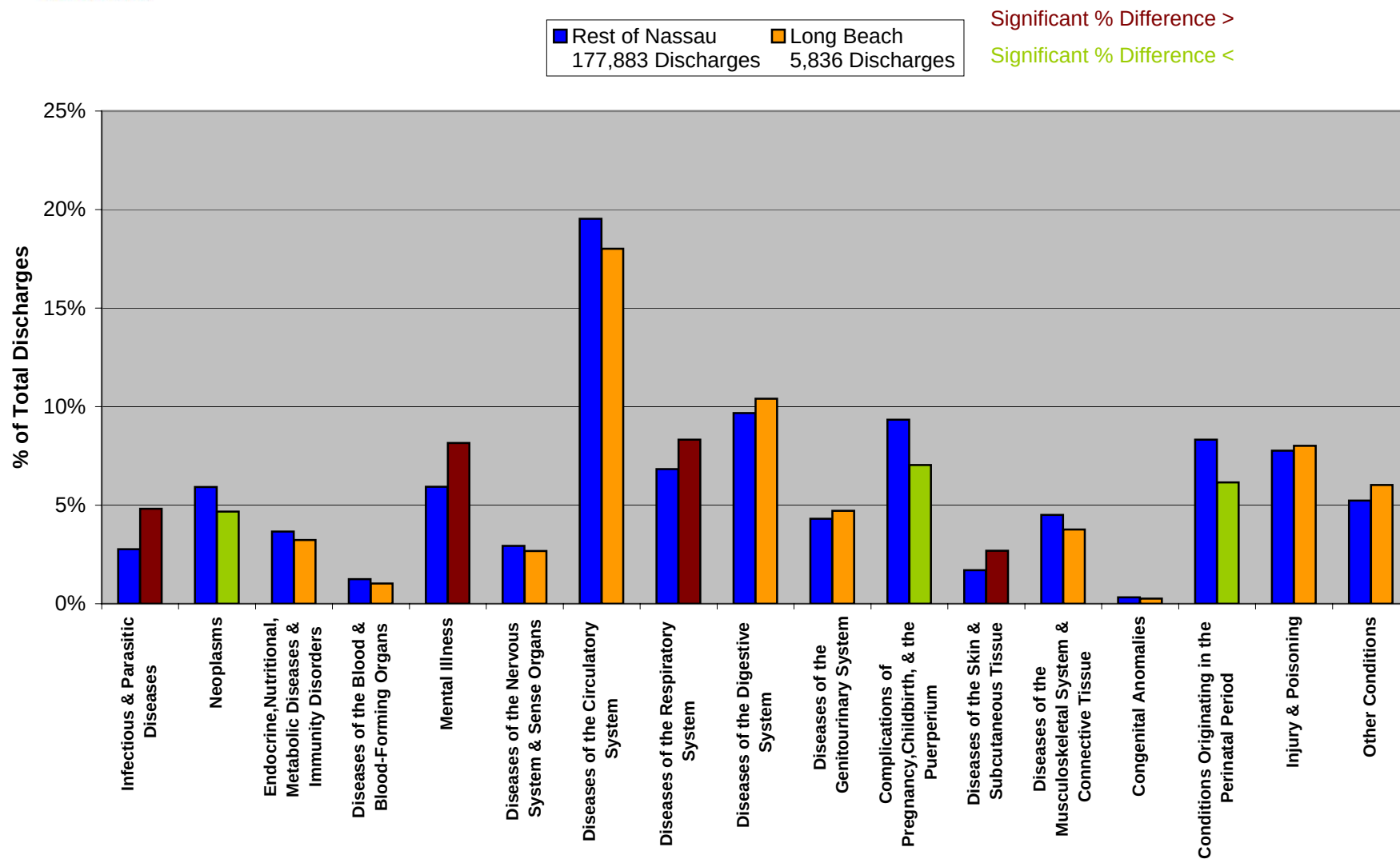
Levittown Hospital Discharges 2008 by Clustered Diagnoses (CCS)



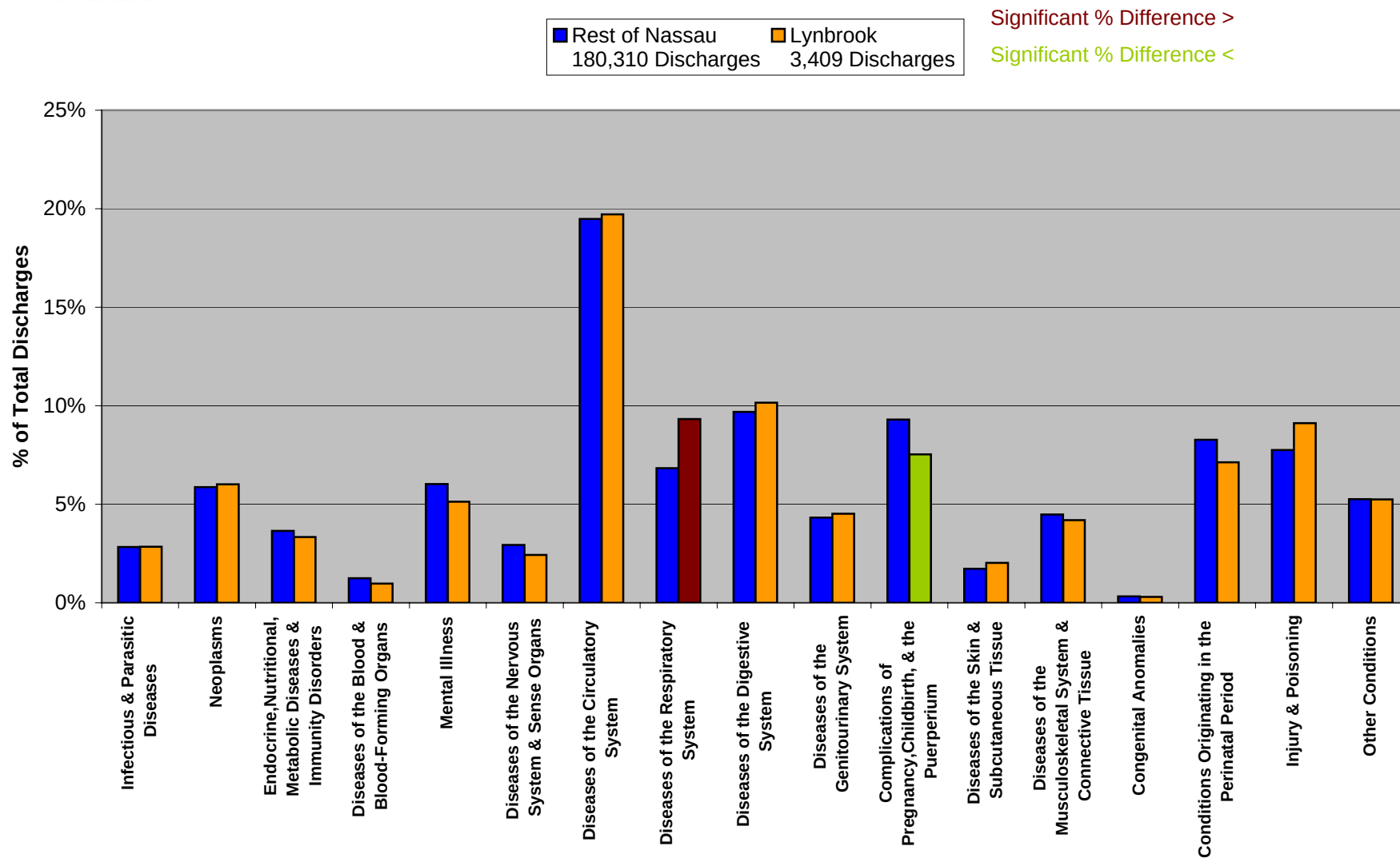
Locust Valley Hospital Discharges 2008 by Clustered Diagnoses (CCS)



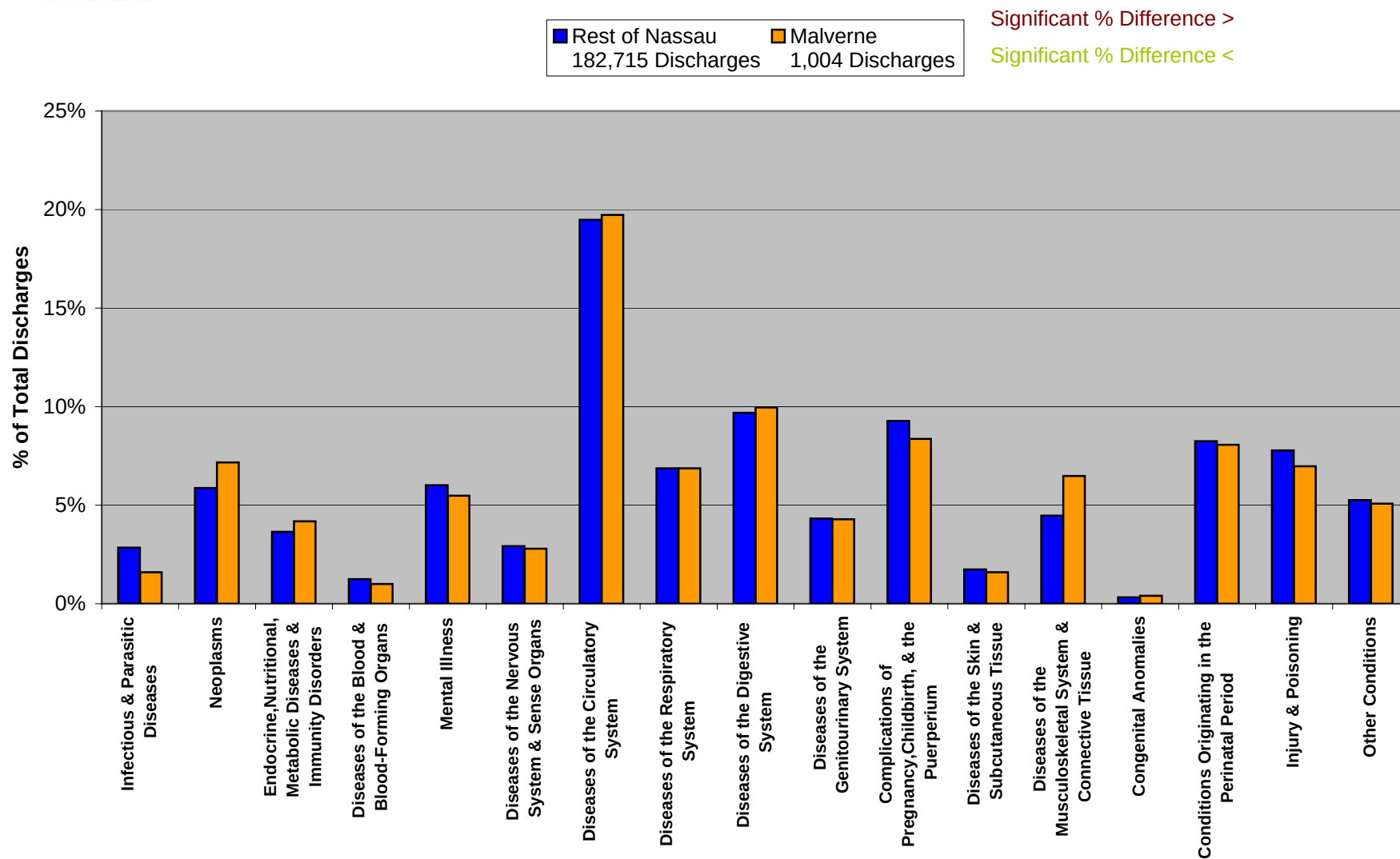
Long Beach Hospital Discharges 2008 by Clustered Diagnoses (CCS)



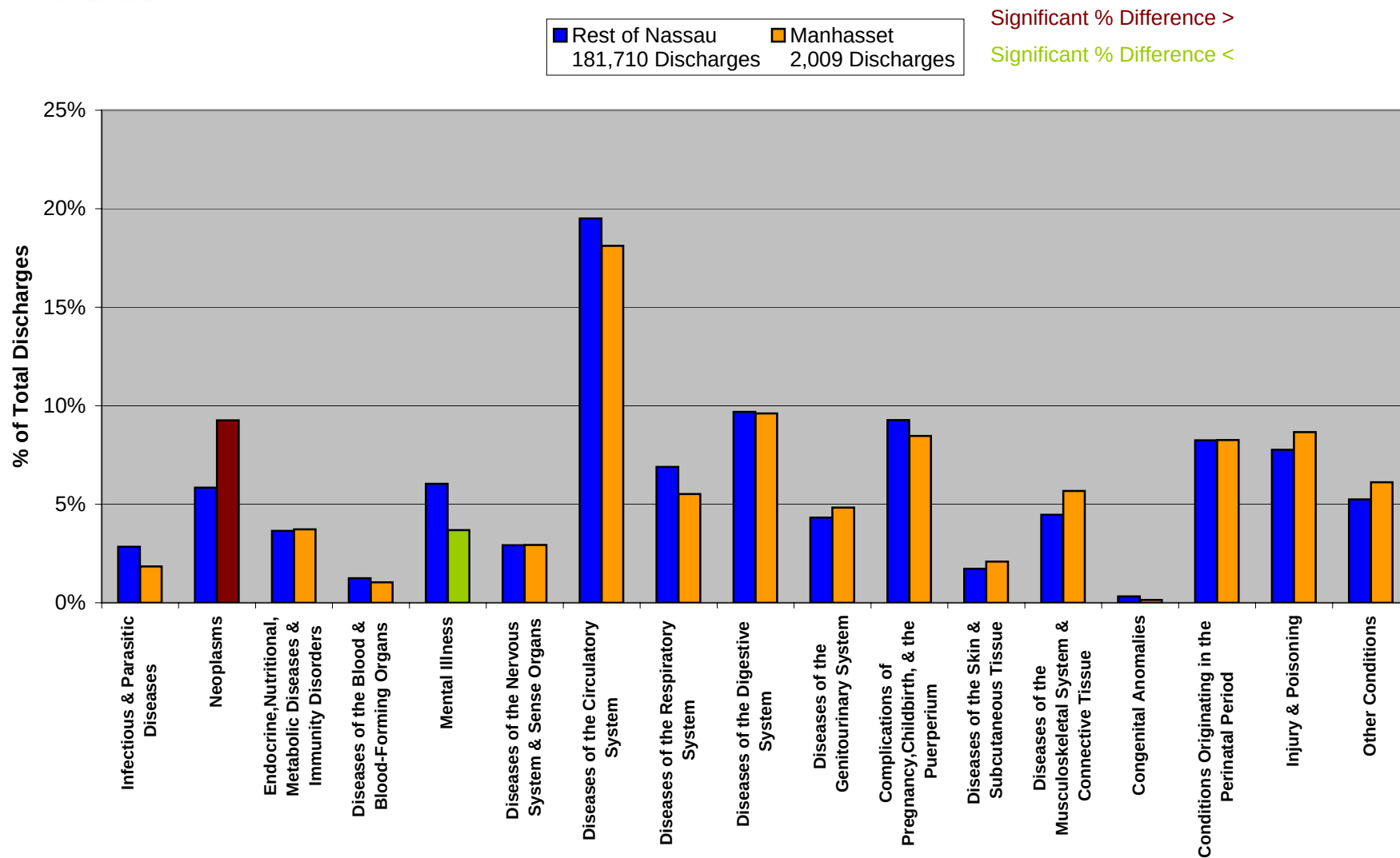
Lynbrook Hospital Discharges 2008 by Clustered Diagnoses (CCS)



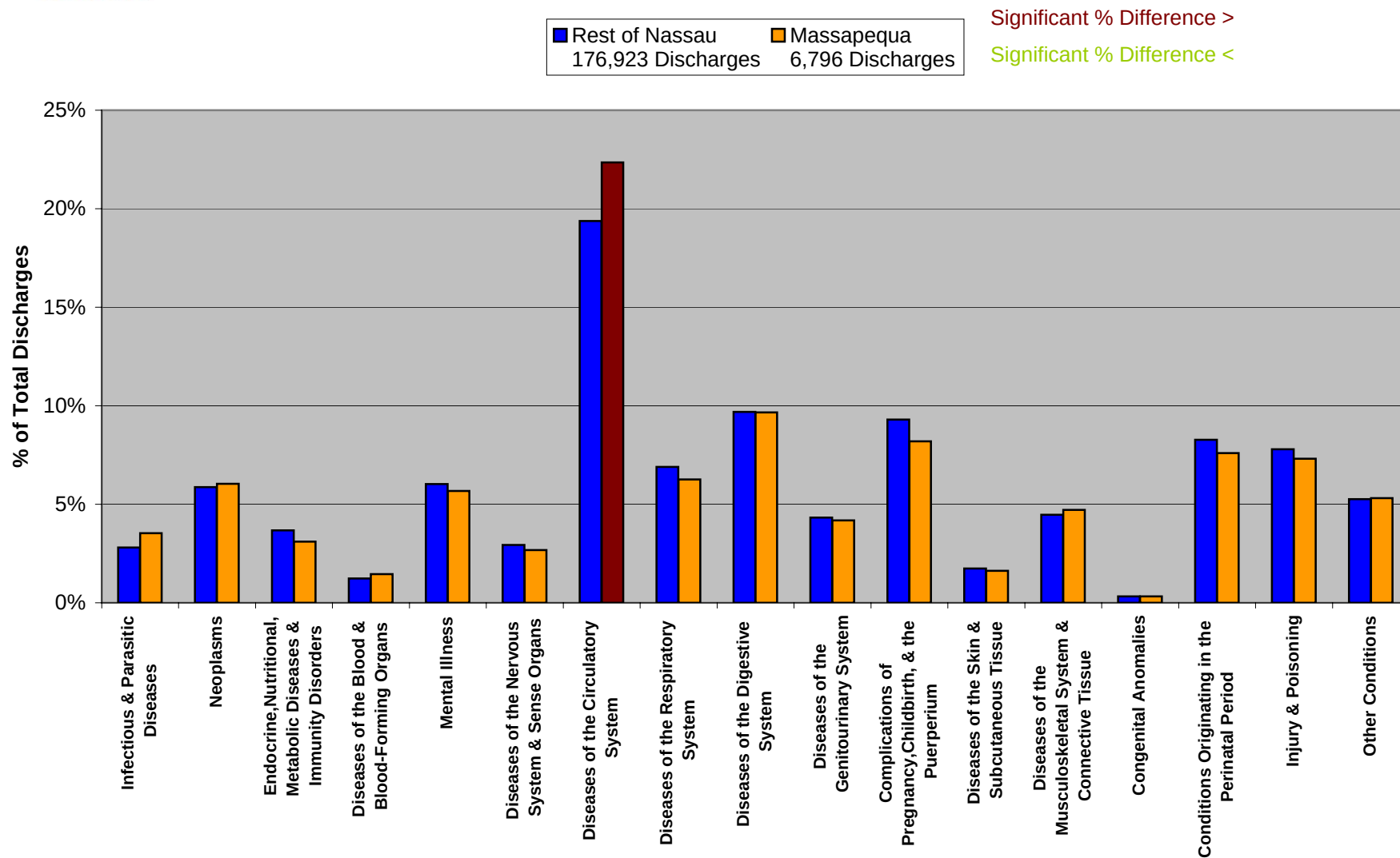
Malverne Hospital Discharges 2008 by Clustered Diagnoses (CCS)



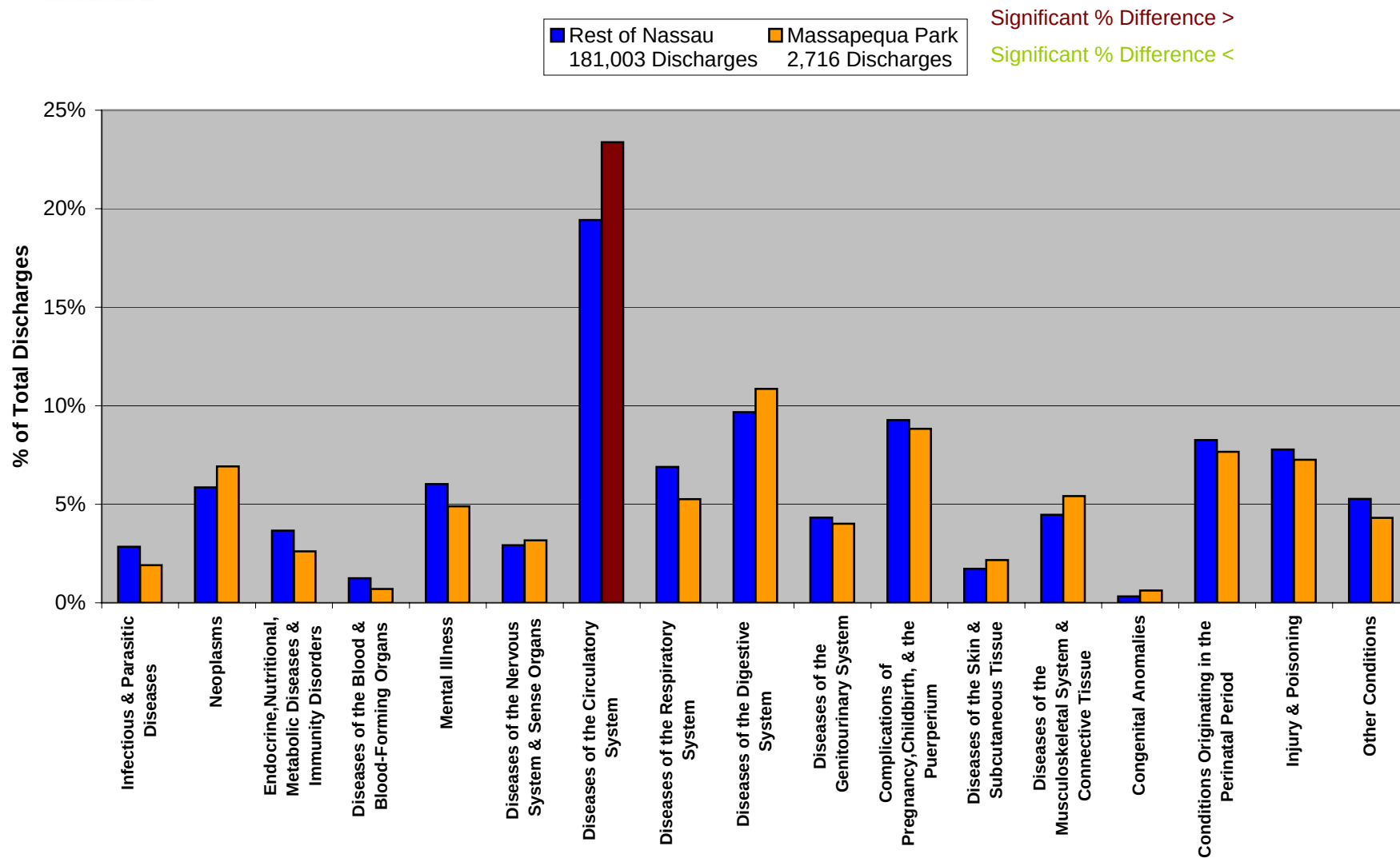
Manhasset Hospital Discharges 2008 by Clustered Diagnoses (CCS)



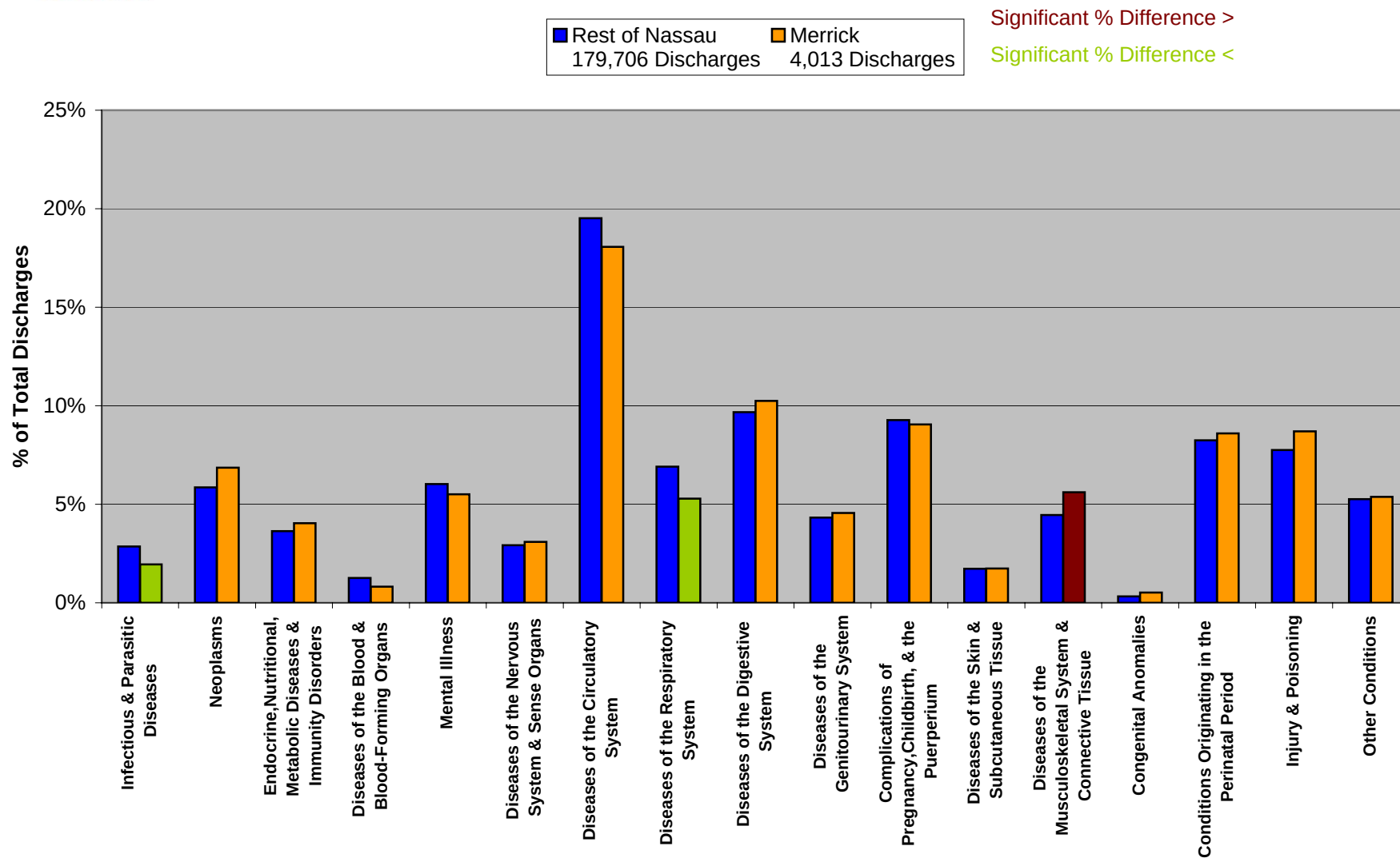
Massapequa Hospital Discharges 2008 by Clustered Diagnoses (CCS)



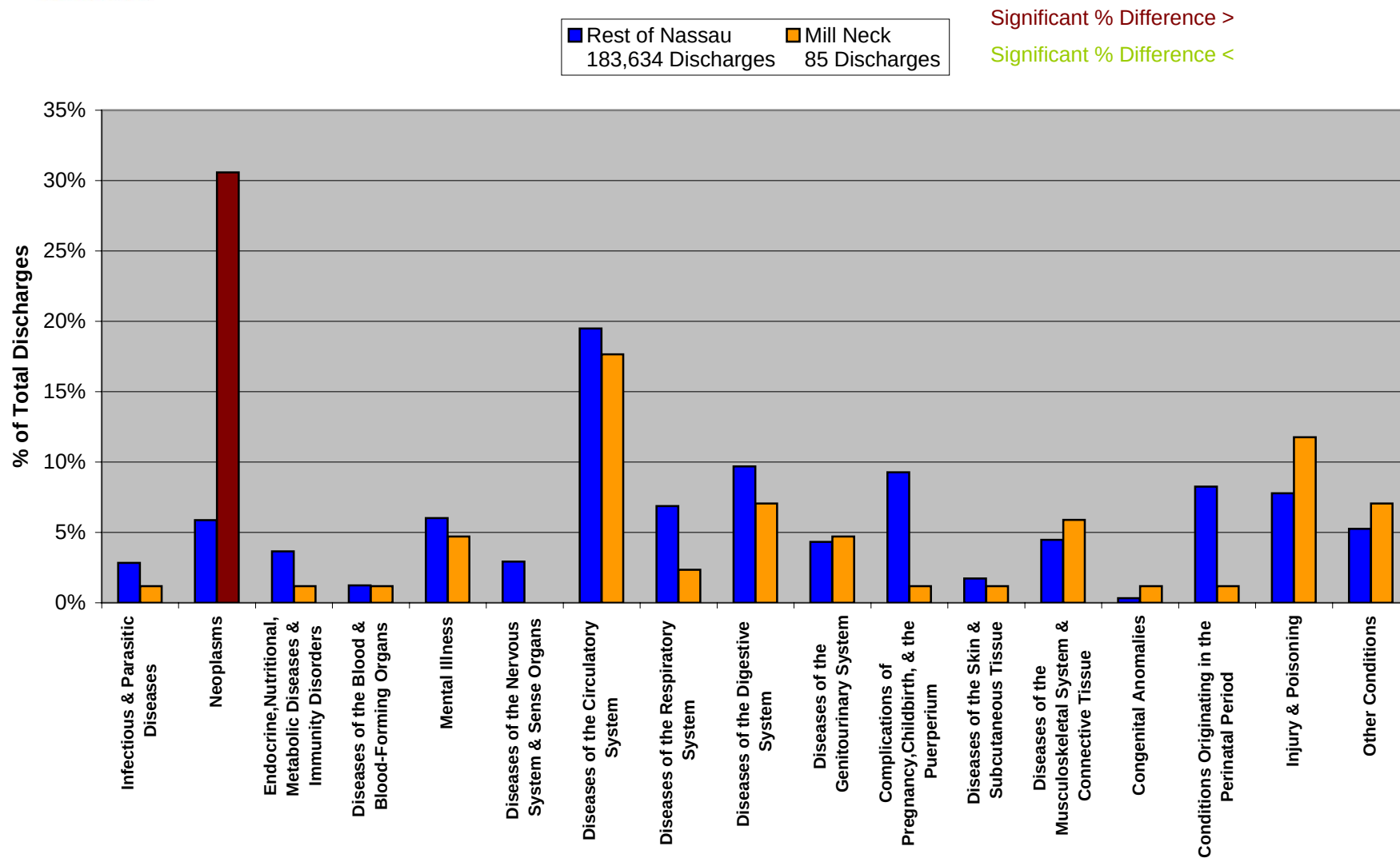
Massapequa Park Hospital Discharges 2008 by Clustered Diagnoses (CCS)



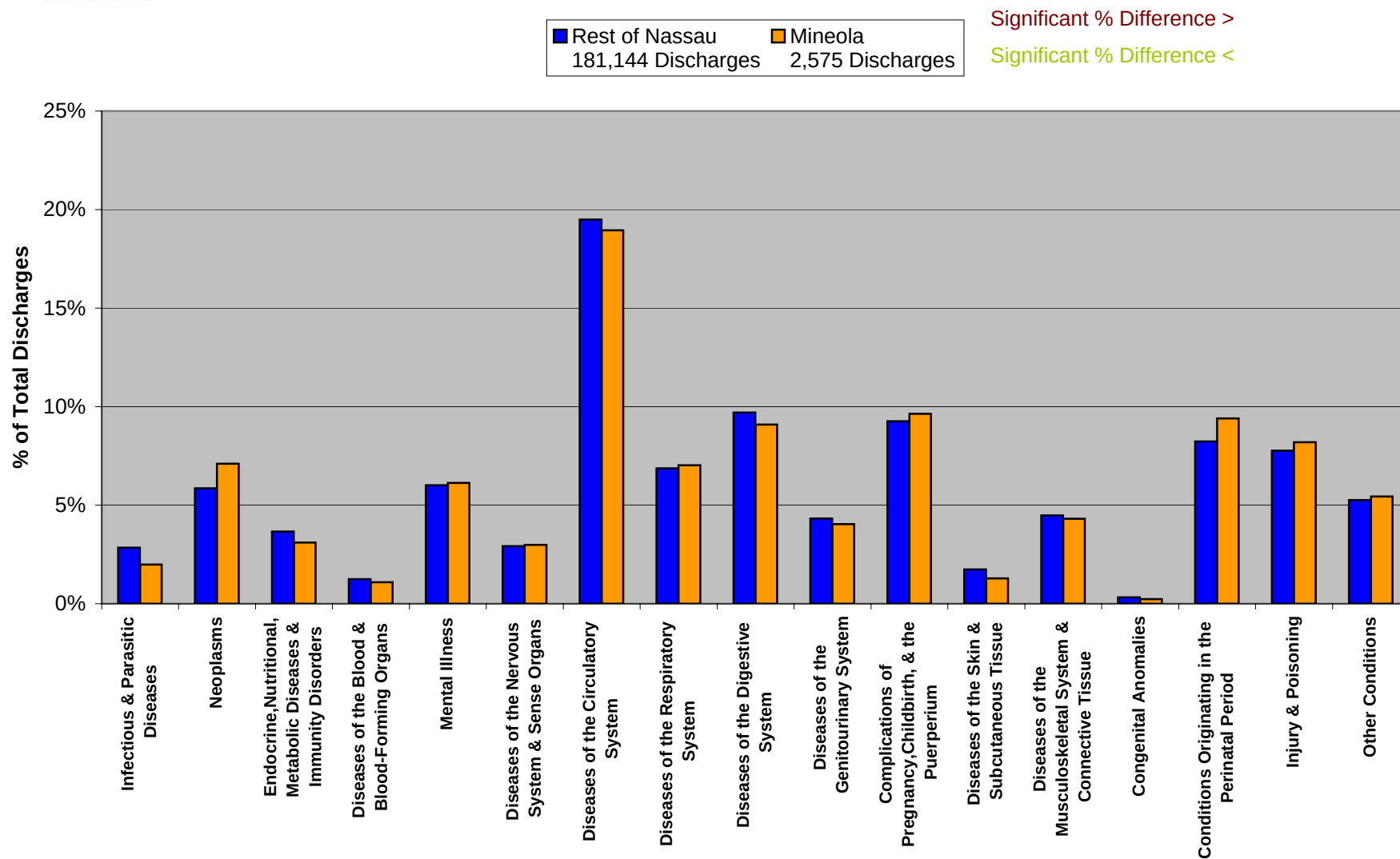
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Hospital Discharges 2008 by Clustered Diagnoses (CCS)



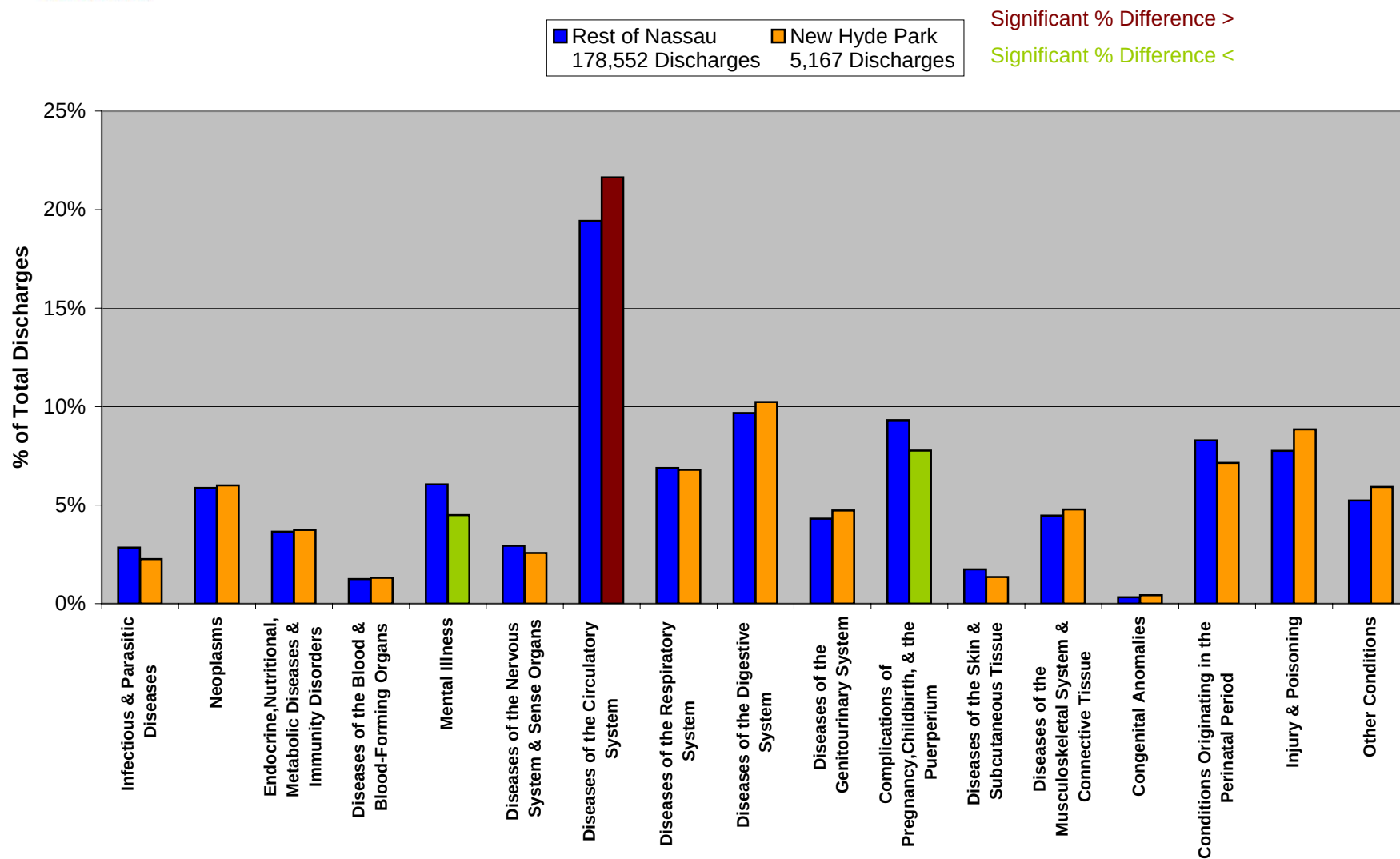
Mill Neck Hospital Discharges 2008 by Clustered Diagnoses (CCS)



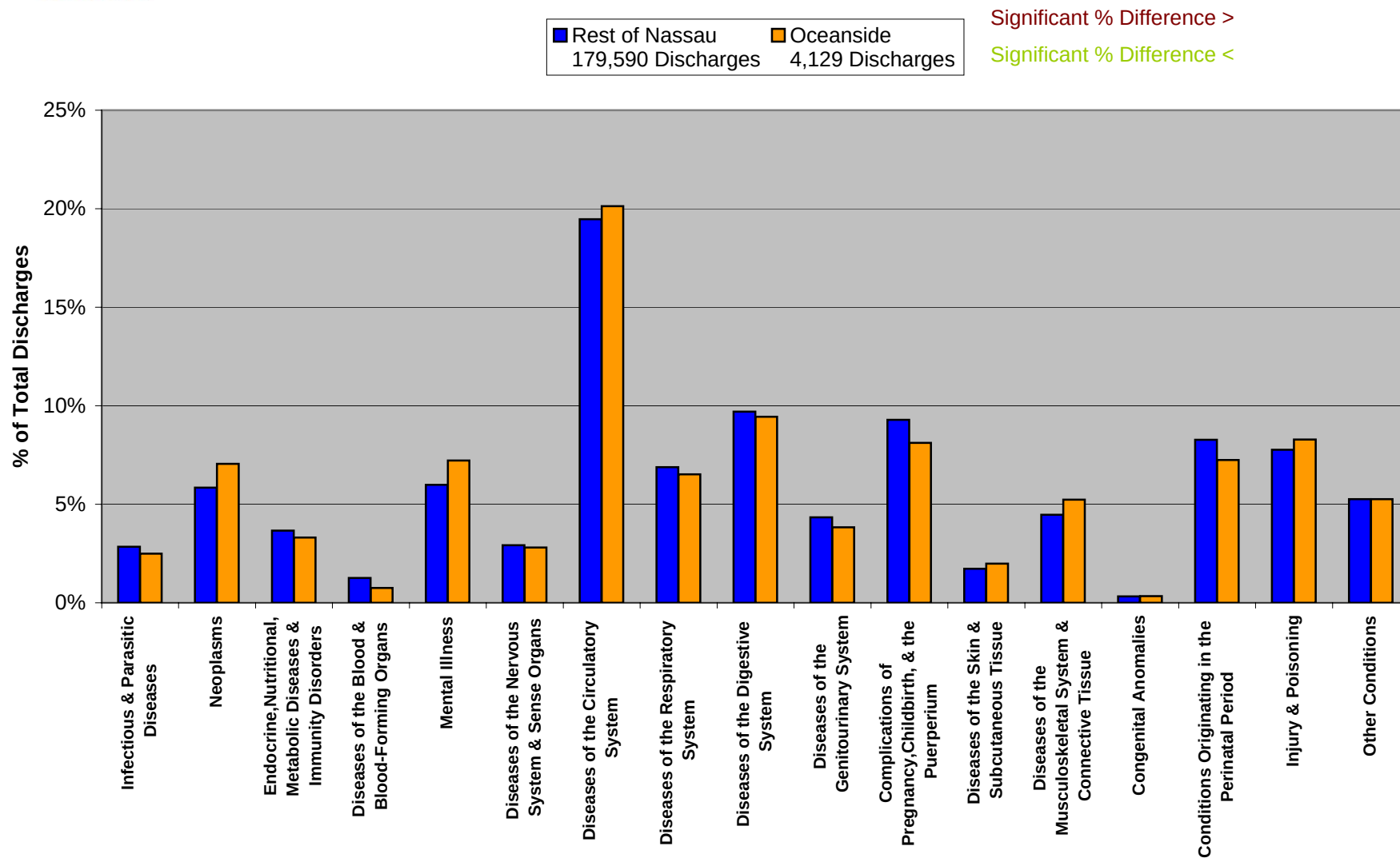
Mineola Hospital Discharges 2008 by Clustered Diagnoses (CCS)



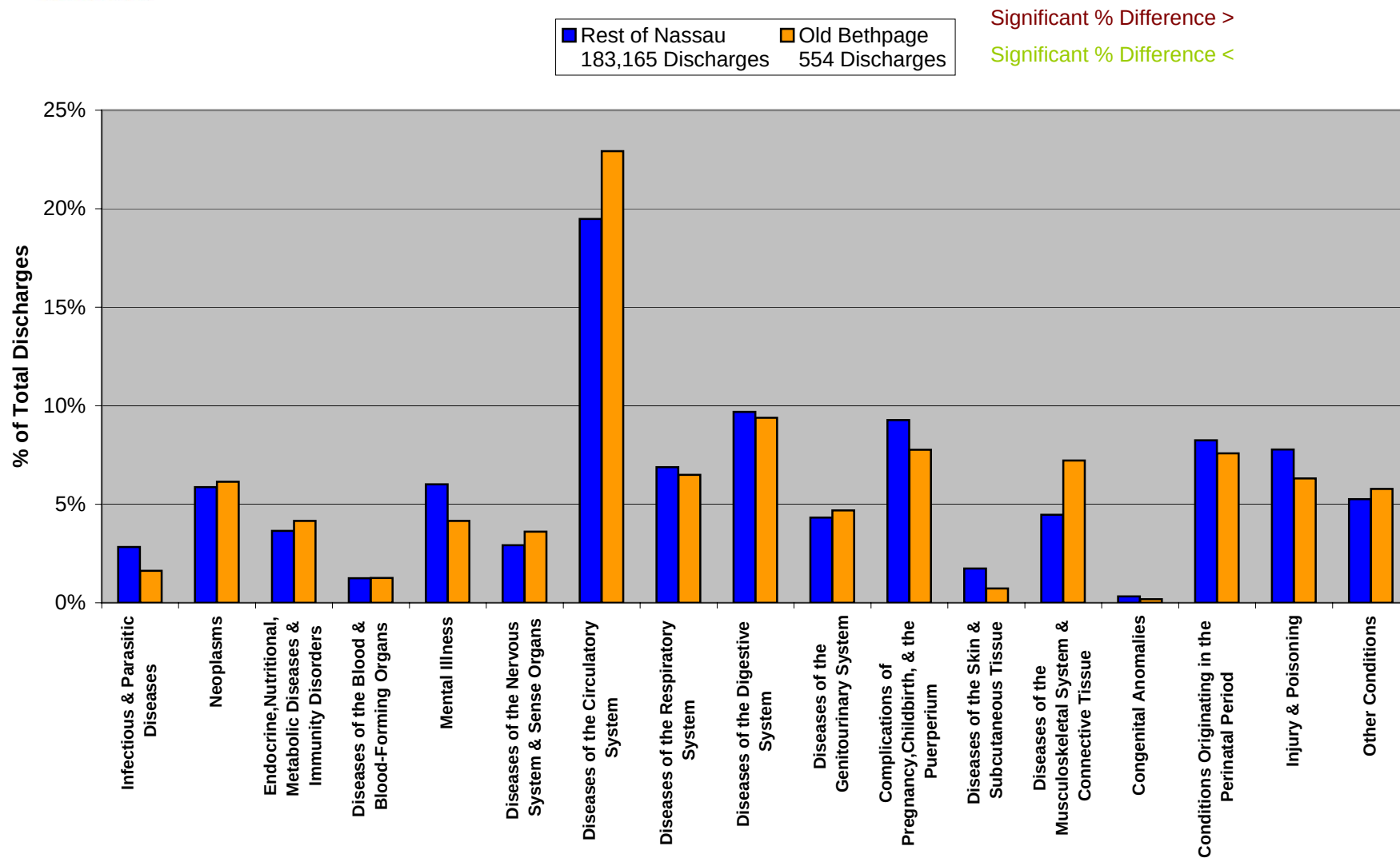
New Hyde Park Hospital Discharges 2008 by Clustered Diagnoses (CCS)



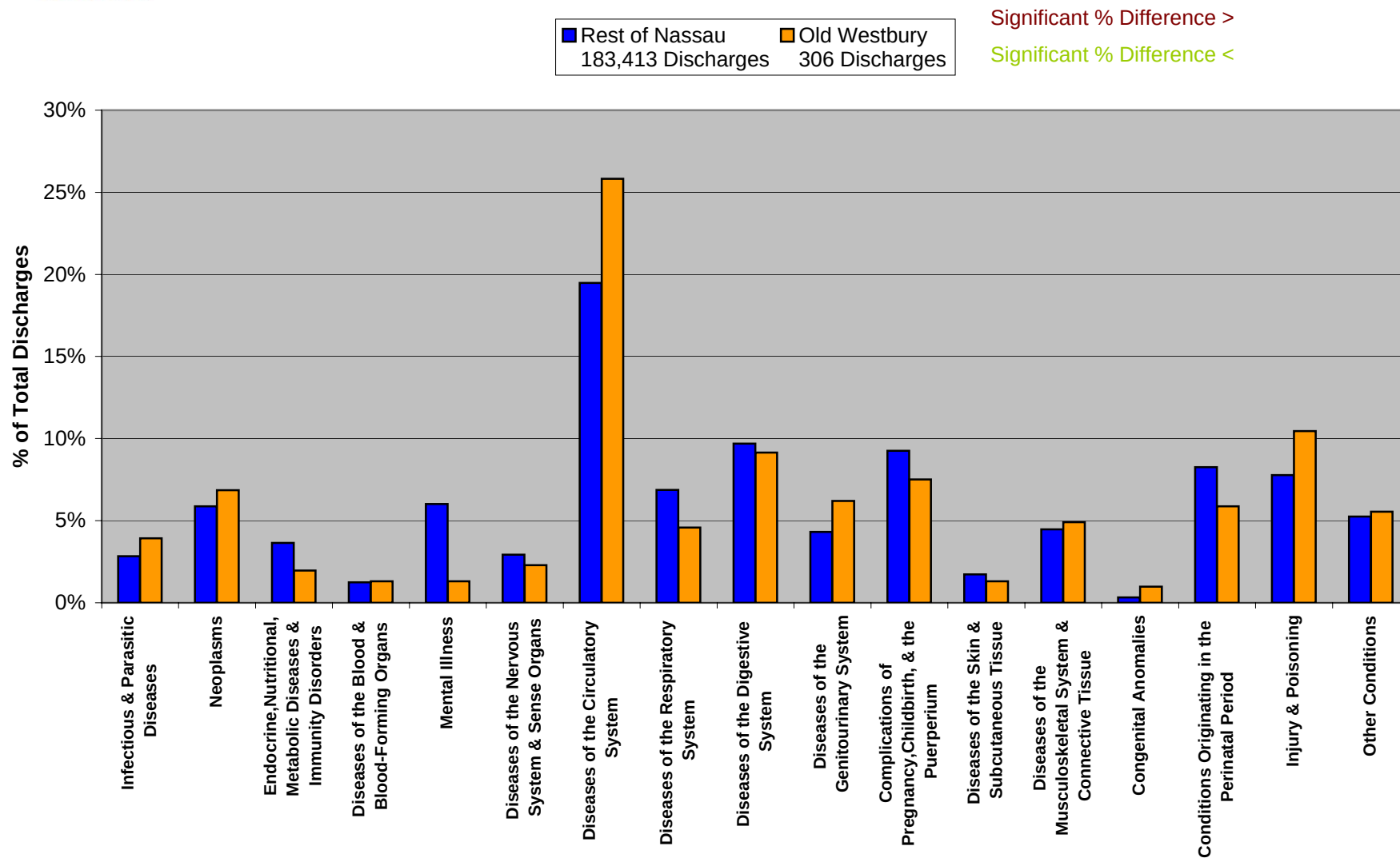
Oceanside Hospital Discharges 2008 by Clustered Diagnoses (CCS)



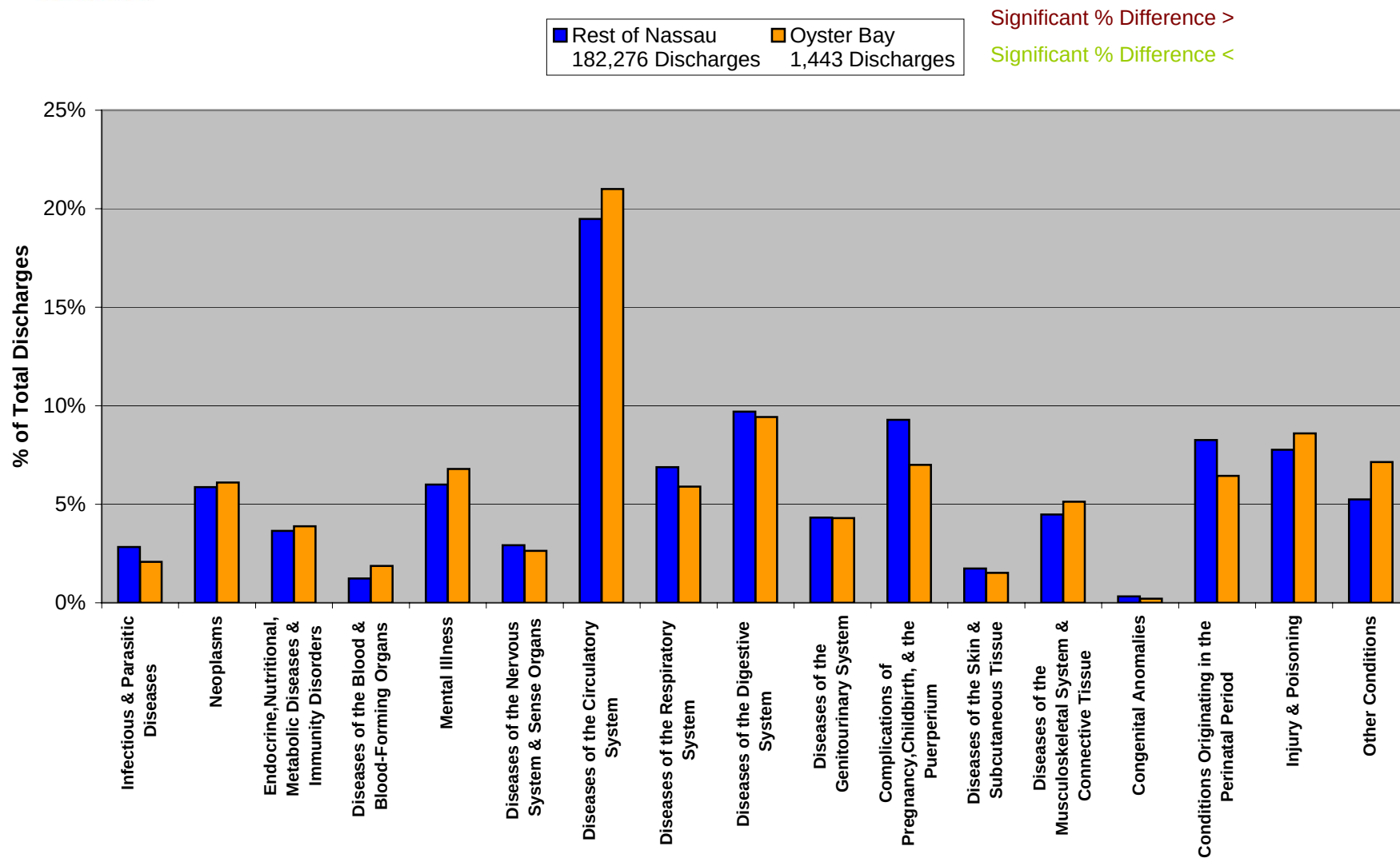
Old Bethpage Hospital Discharges 2008 by Clustered Diagnoses (CCS)



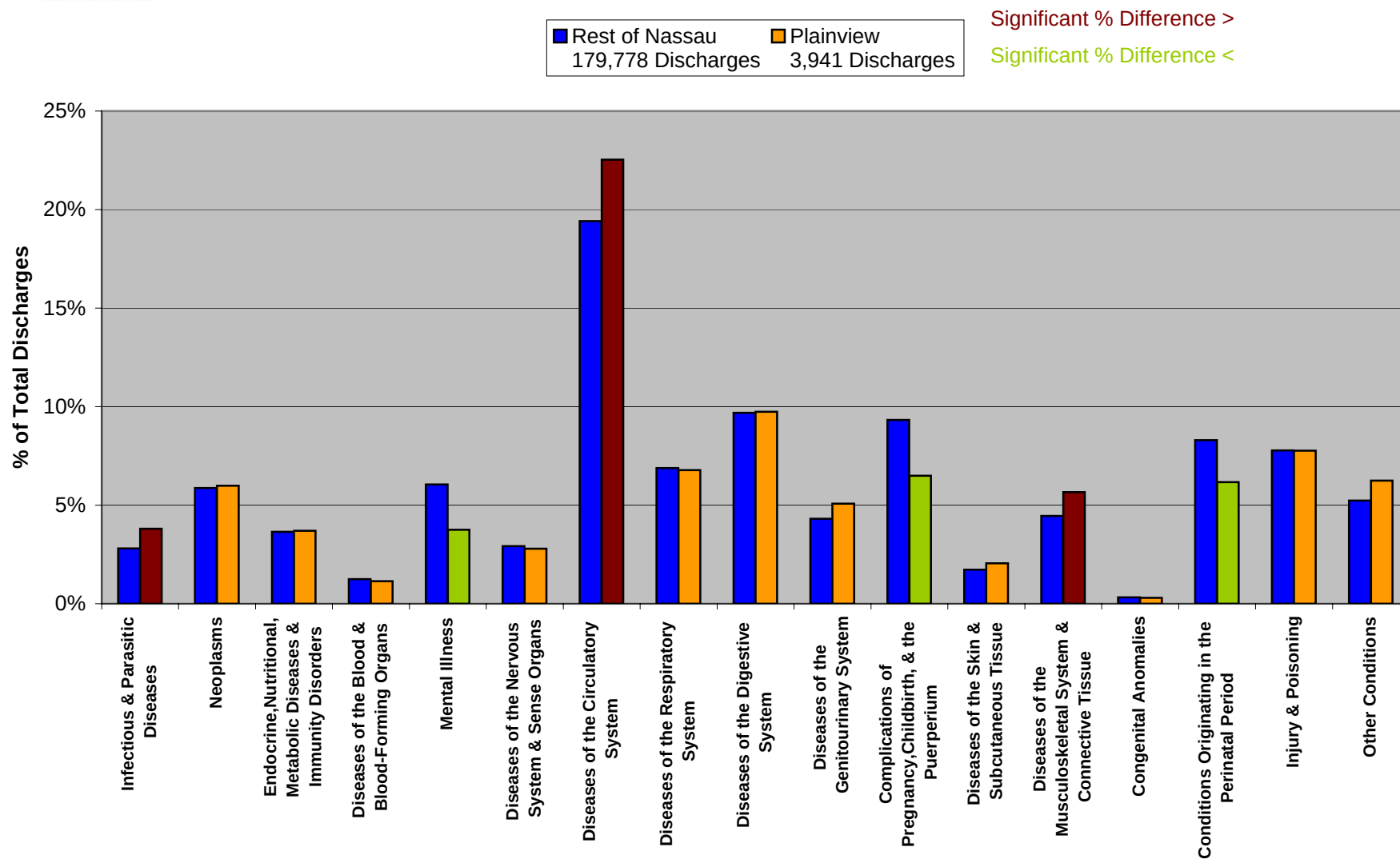
Old Westbury Hospital Discharges 2008 by Clustered Diagnoses (CCS)



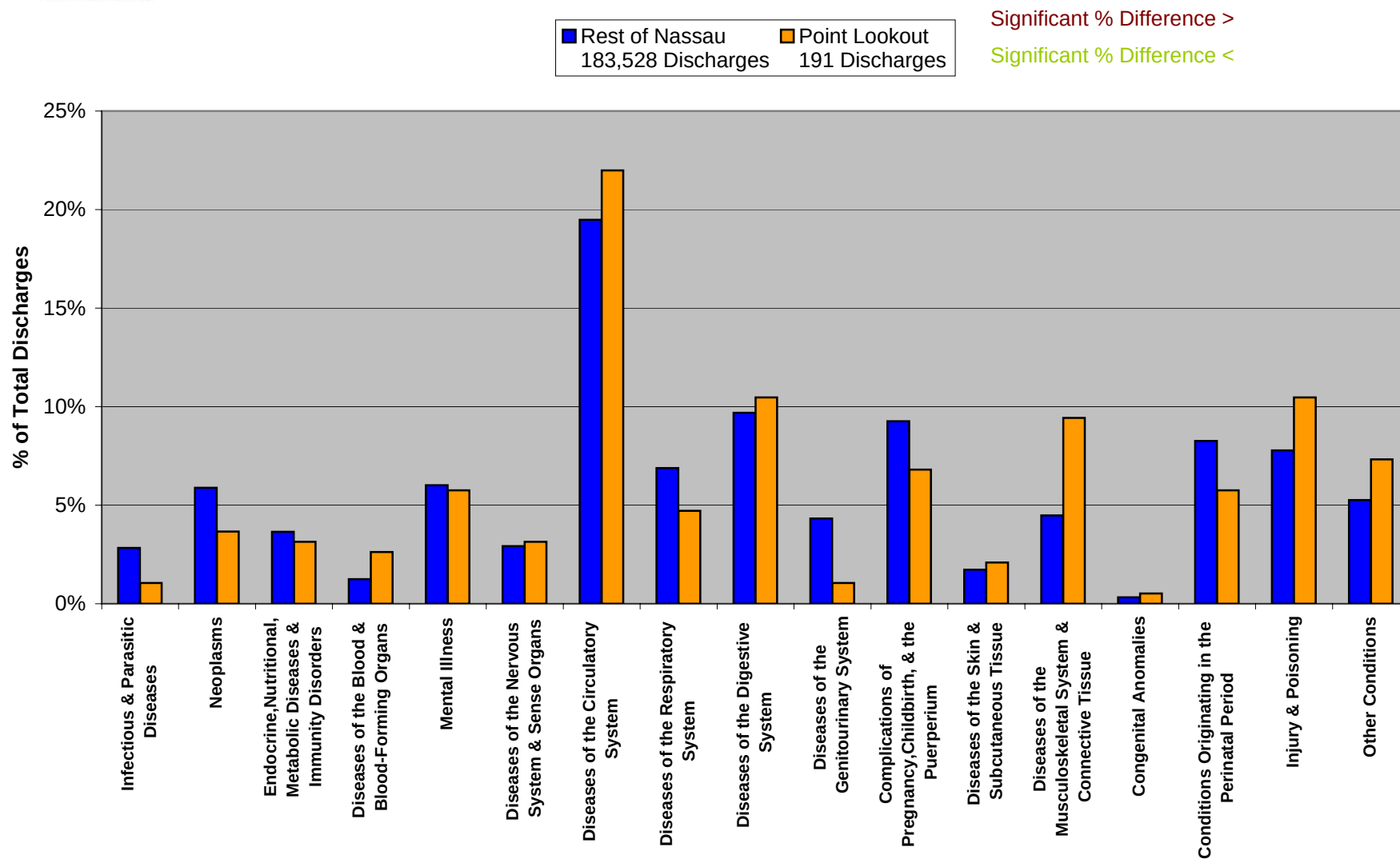
Oyster Bay Hospital Discharges 2008 by Clustered Diagnoses (CCS)



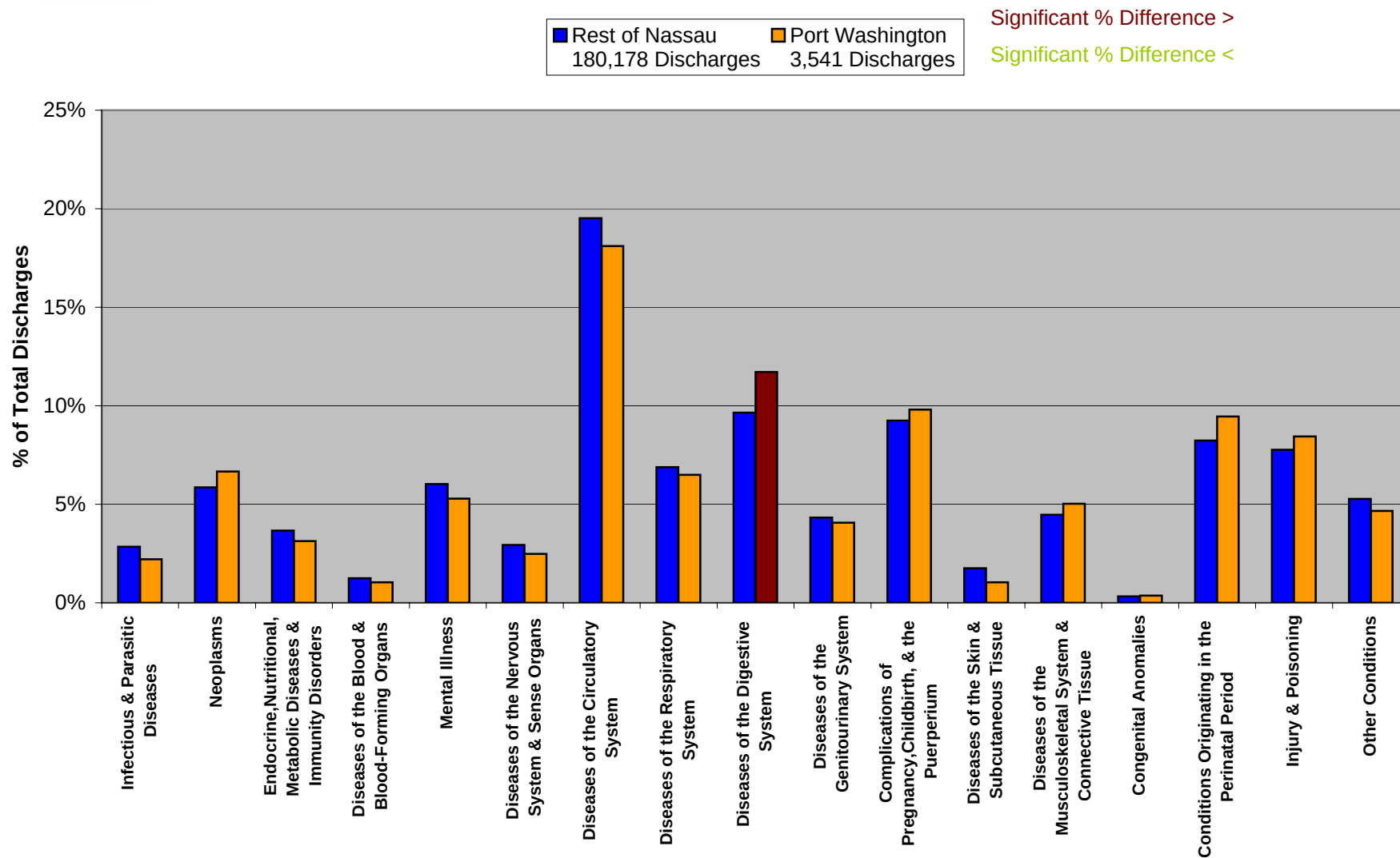
Plainview Hospital Discharges 2008 by Clustered Diagnoses (CCS)



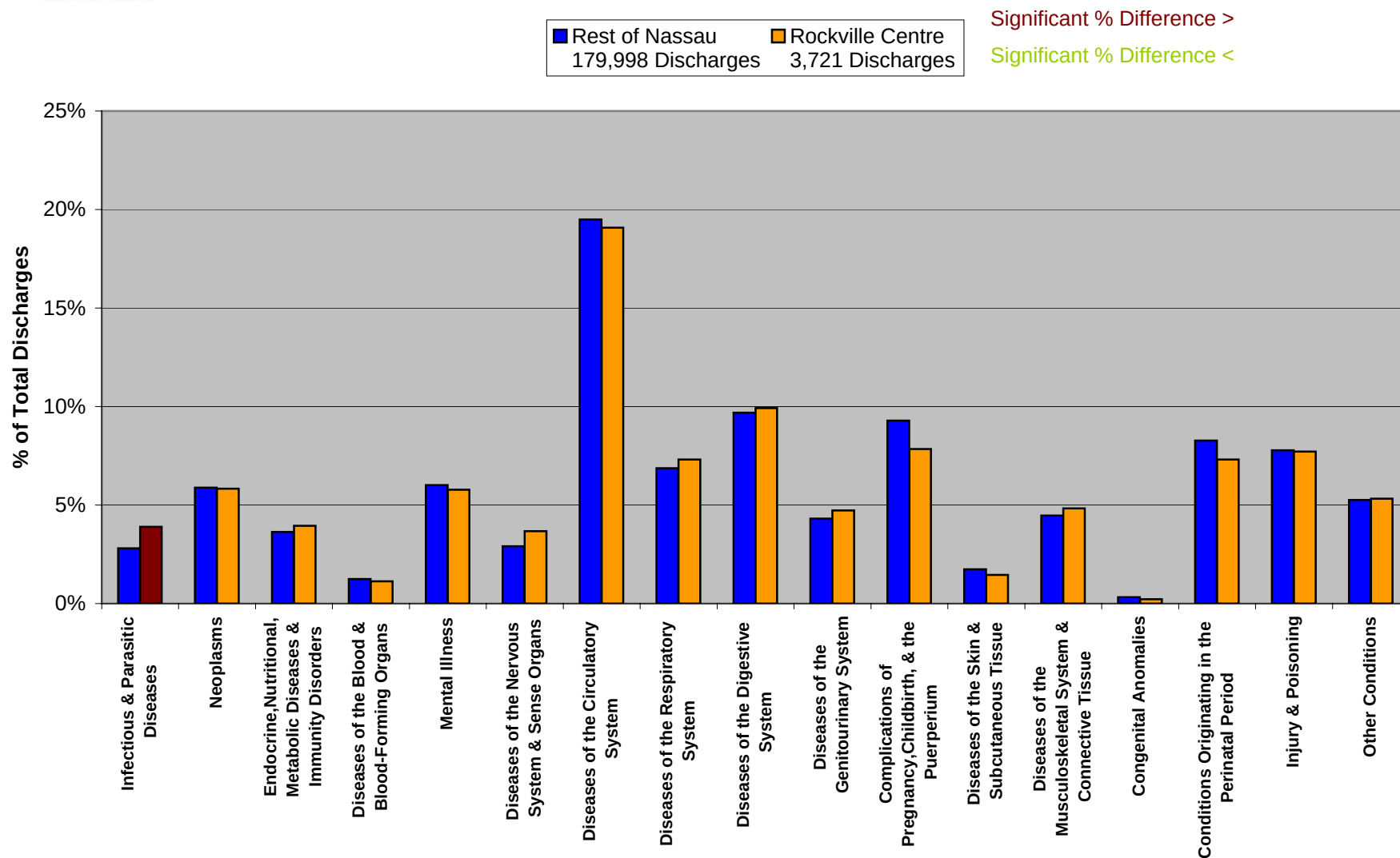
Point Lookout Hospital Discharges 2008 by Clustered Diagnoses (CCS)



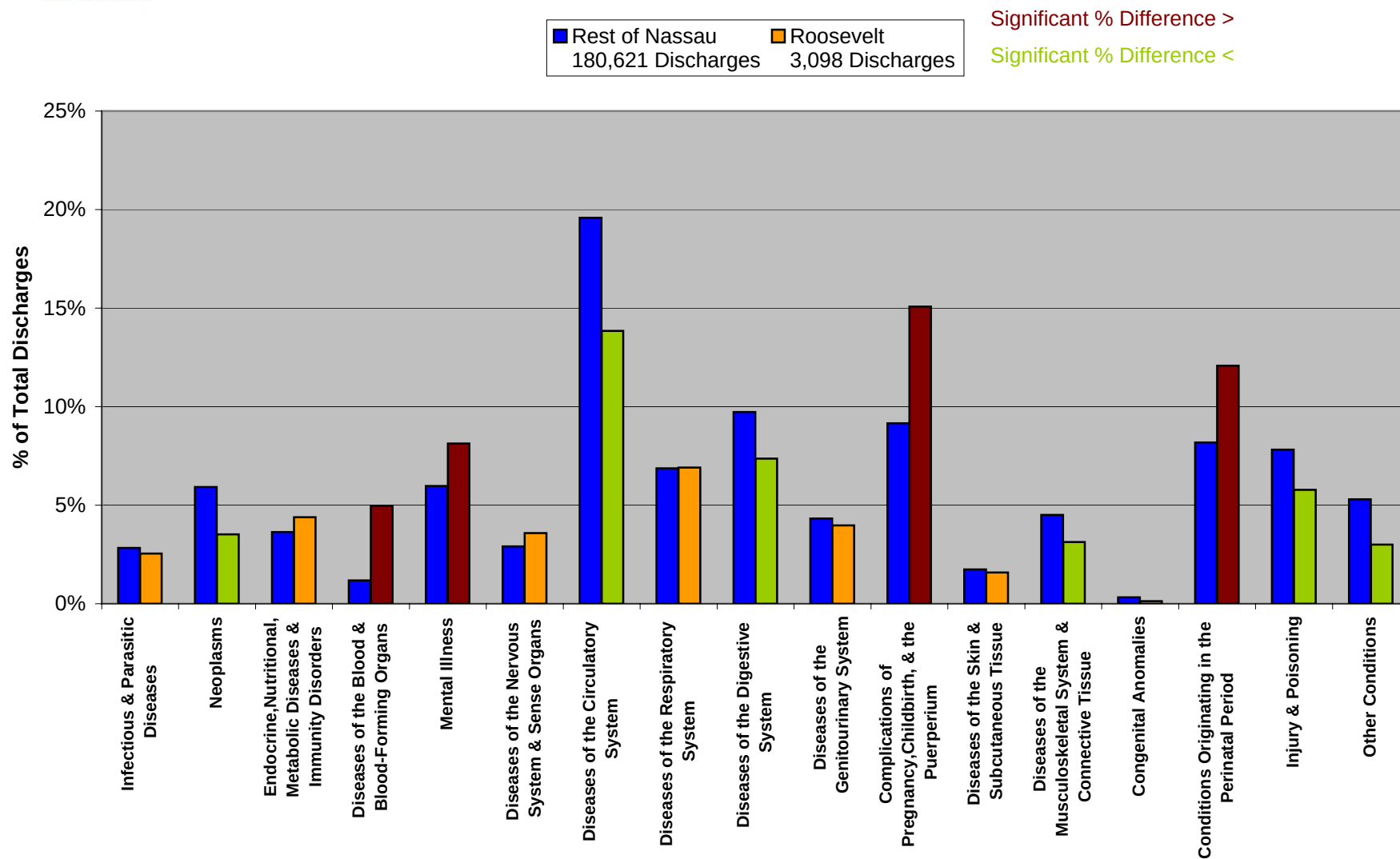
Port Washington
Hospital Discharges 2008 by Clustered Diagnoses (CCS)



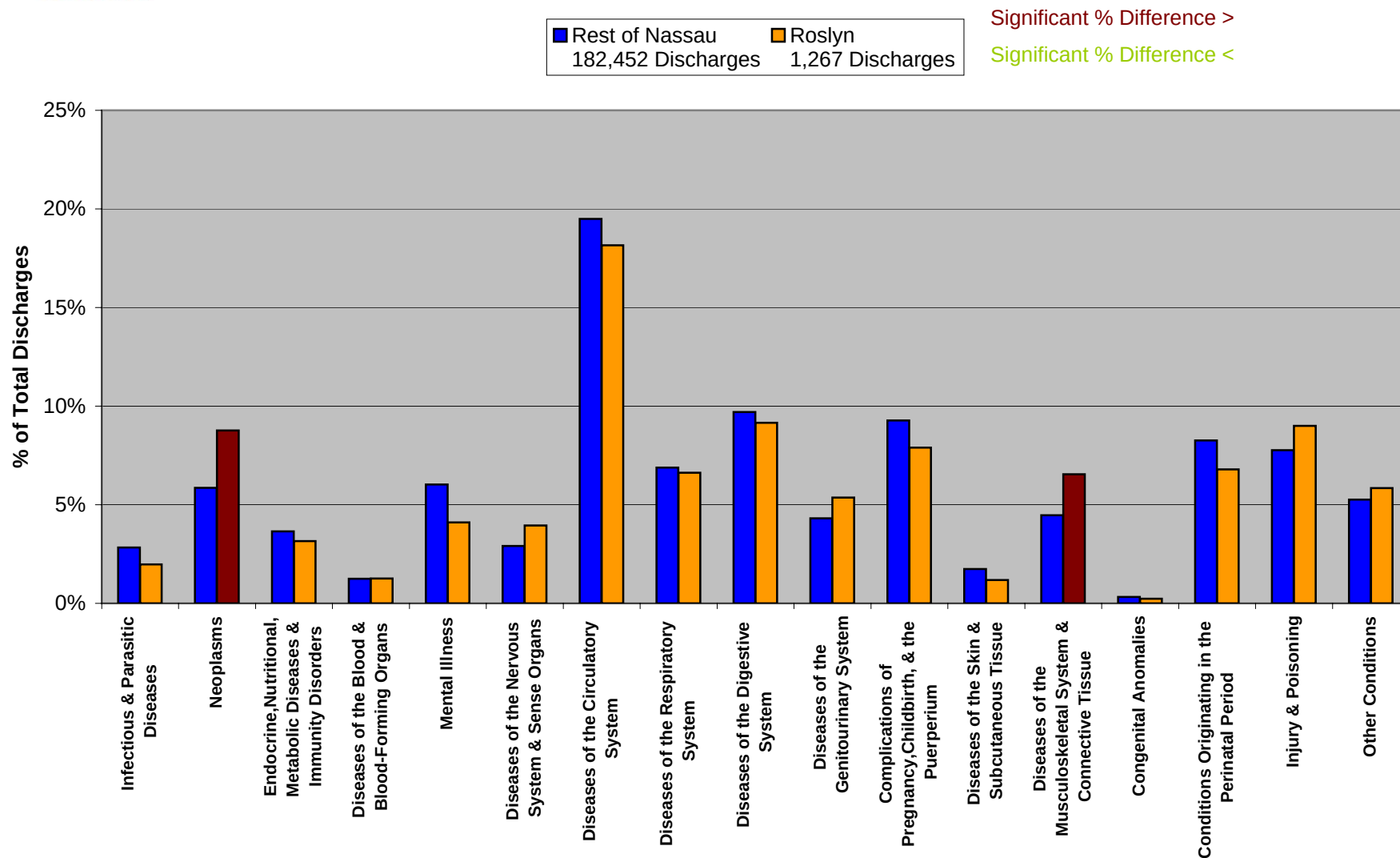
Rockville Centre Hospital Discharges 2008 by Clustered Diagnoses (CCS)



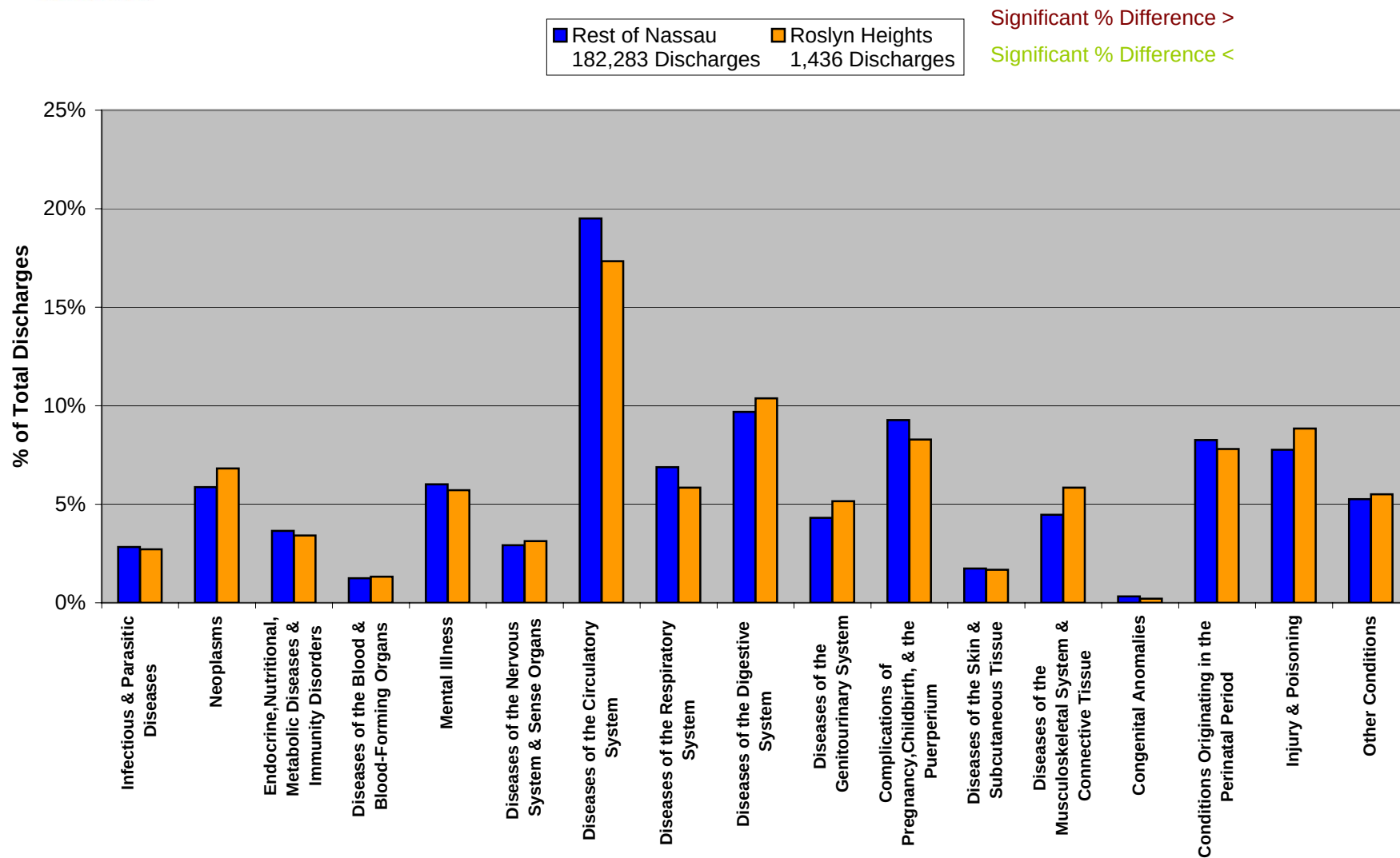
Roosevelt Hospital Discharges 2008 by Clustered Diagnoses (CCS)



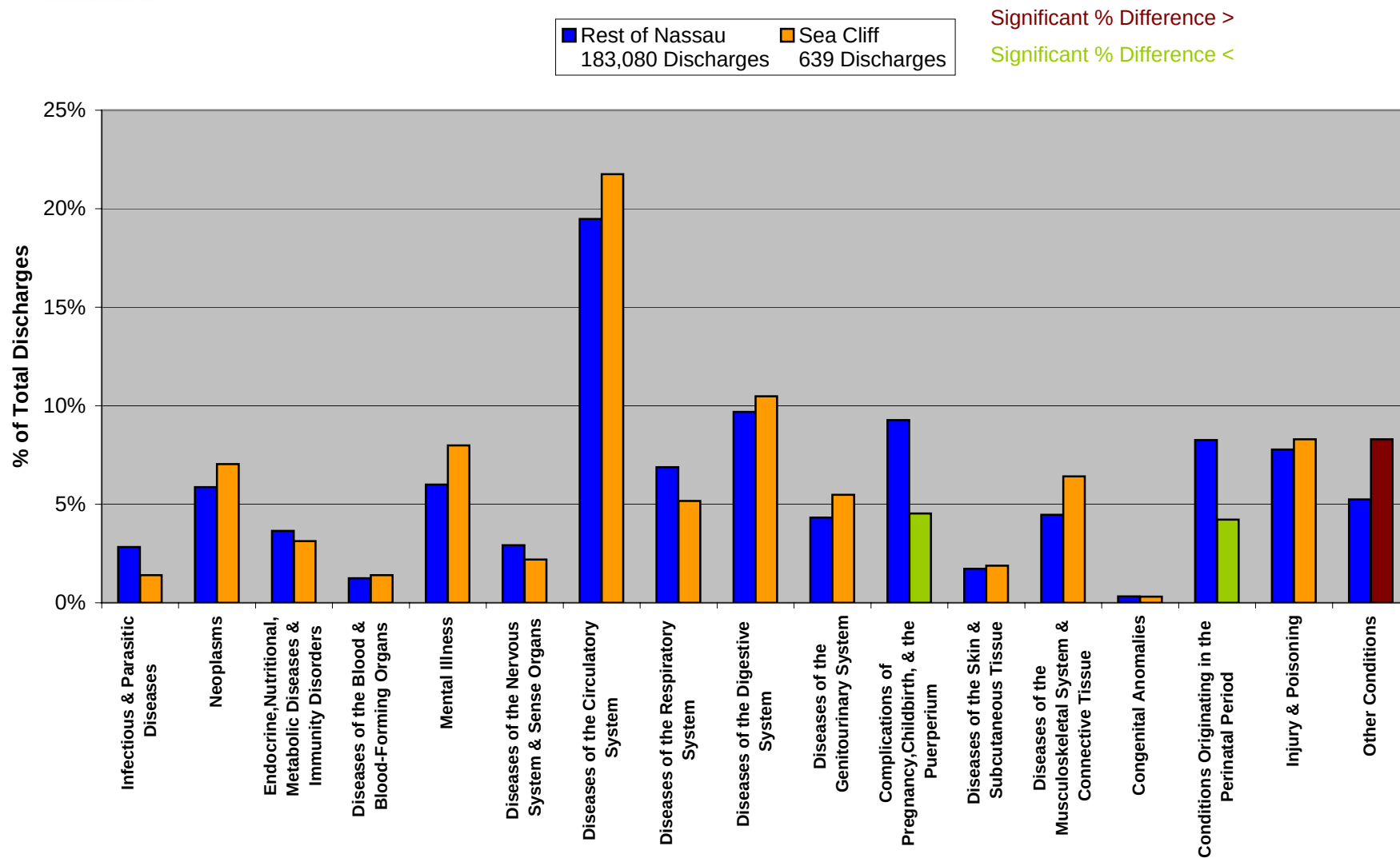
Roslyn Hospital Discharges 2008 by Clustered Diagnoses (CCS)



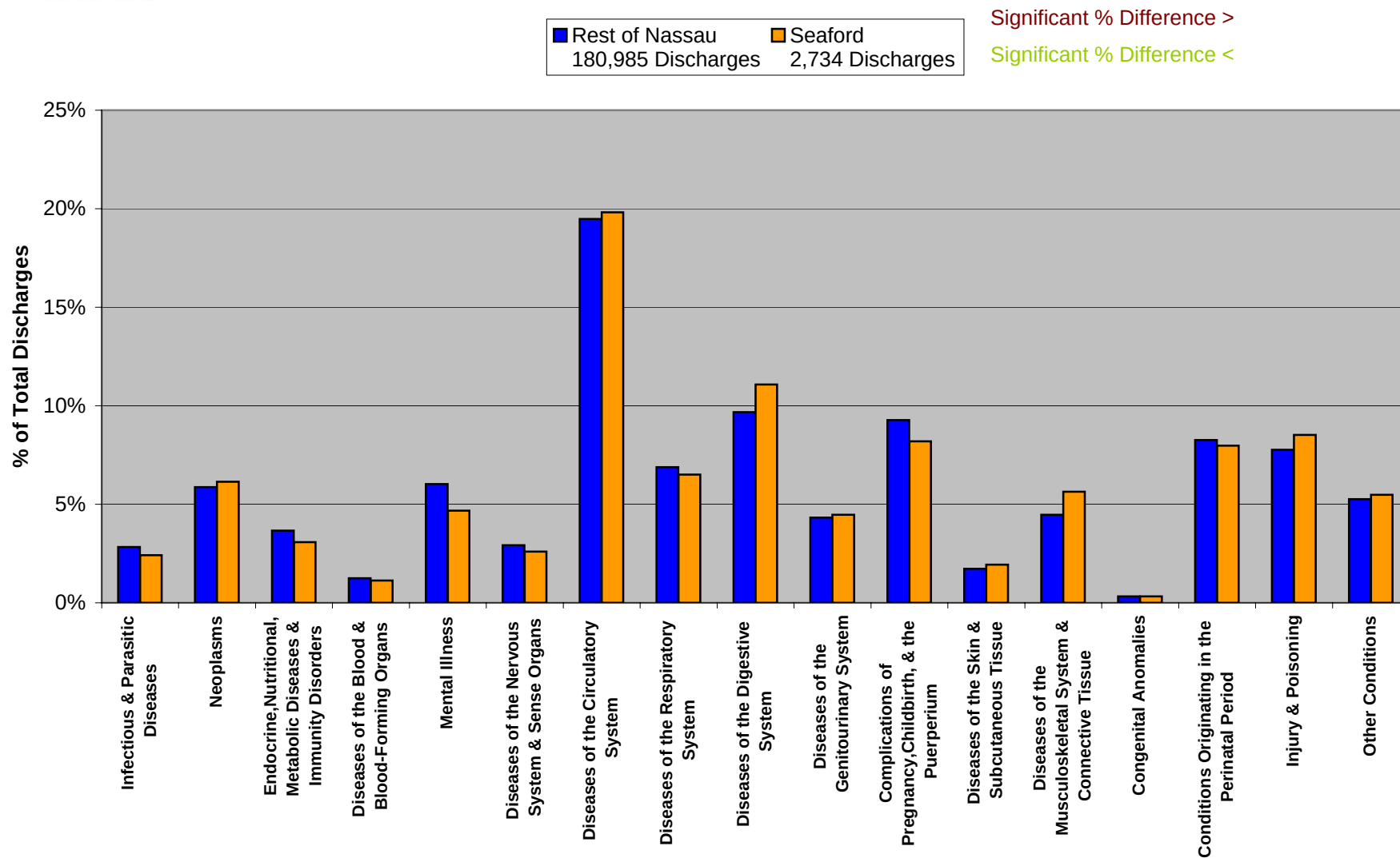
Roslyn Heights Hospital Discharges 2008 by Clustered Diagnoses (CCS)



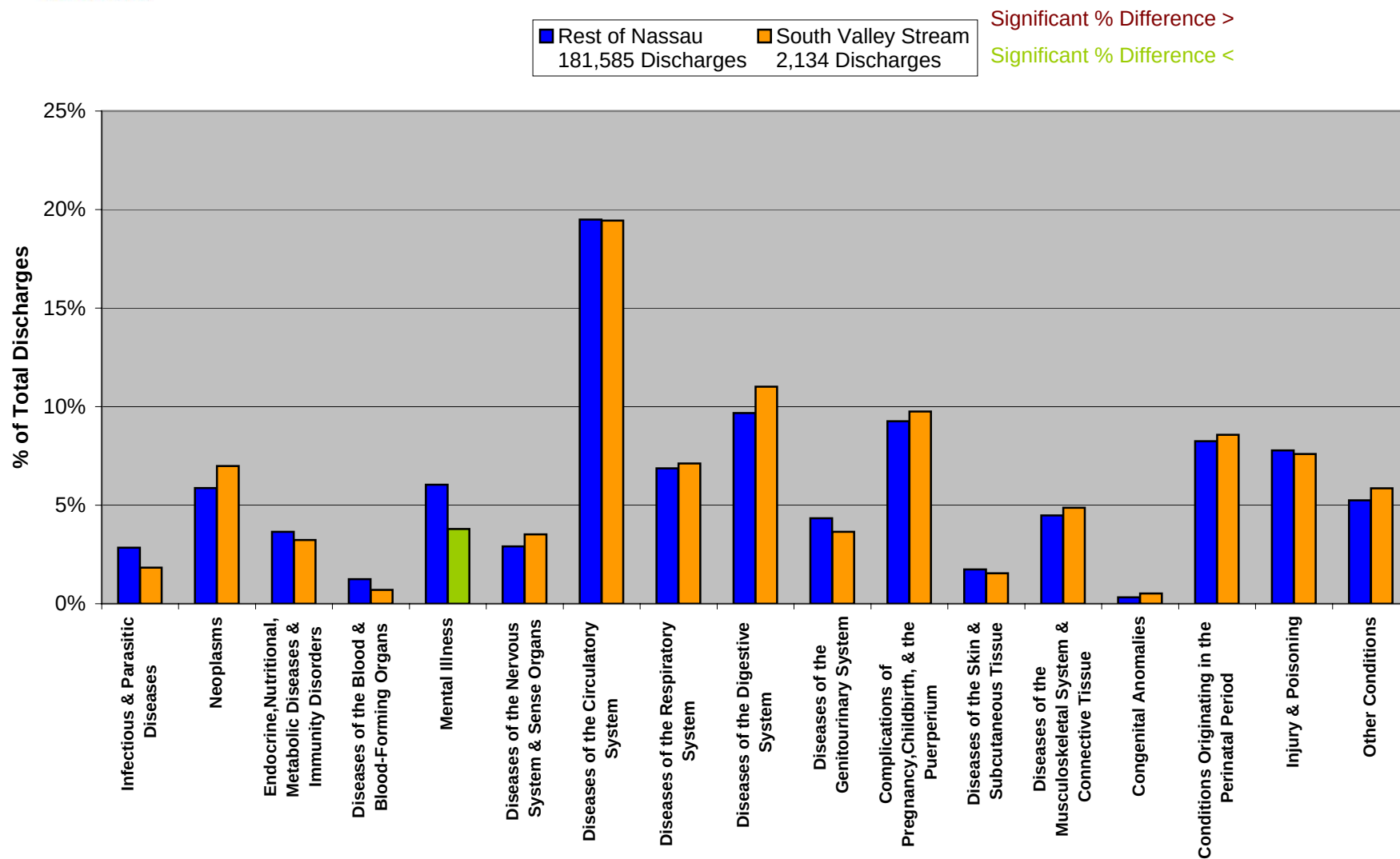
Sea Cliff Hospital Discharges 2008 by Clustered Diagnoses (CCS)



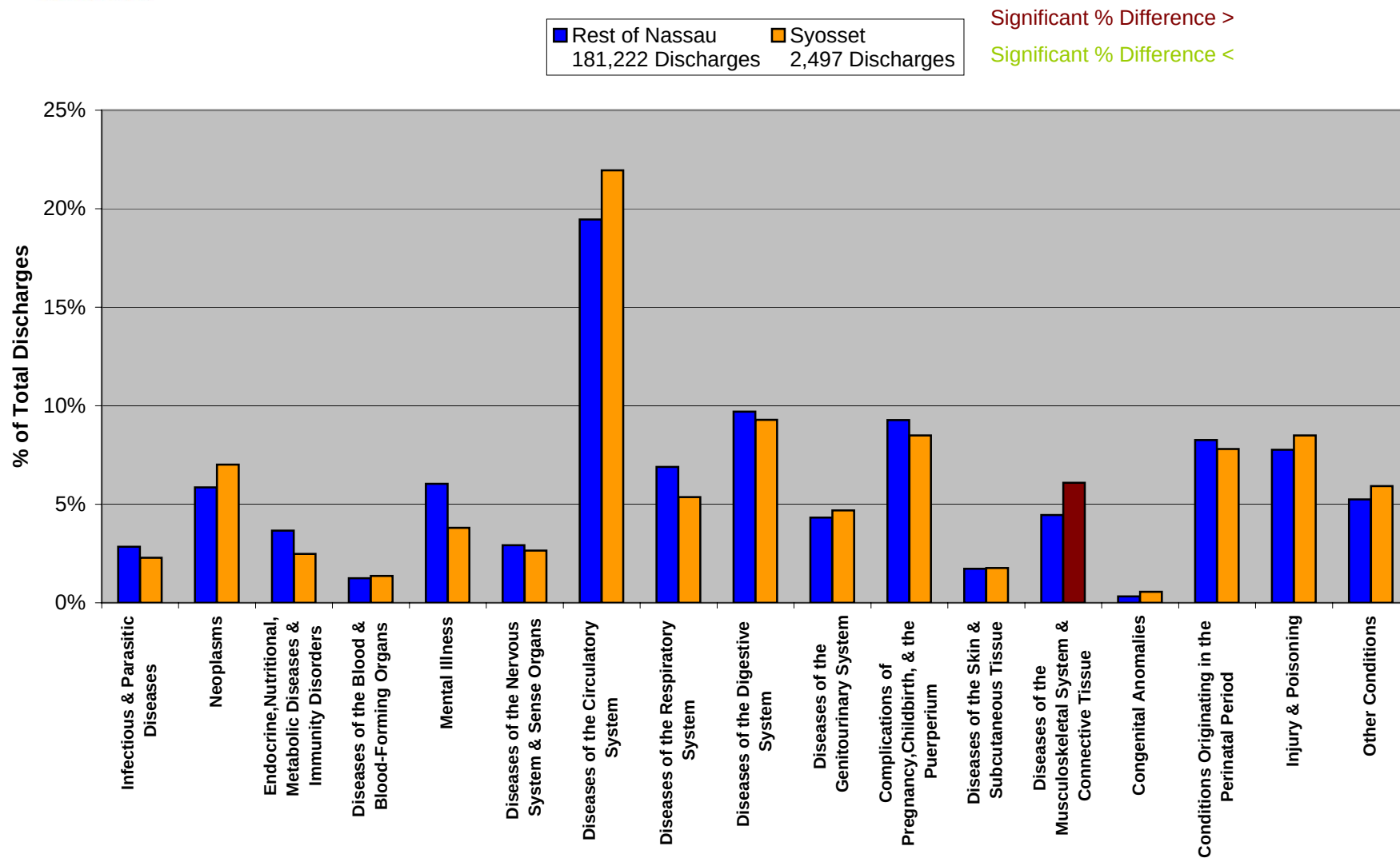
Seaford Hospital Discharges 2008 by Clustered Diagnoses (CCS)



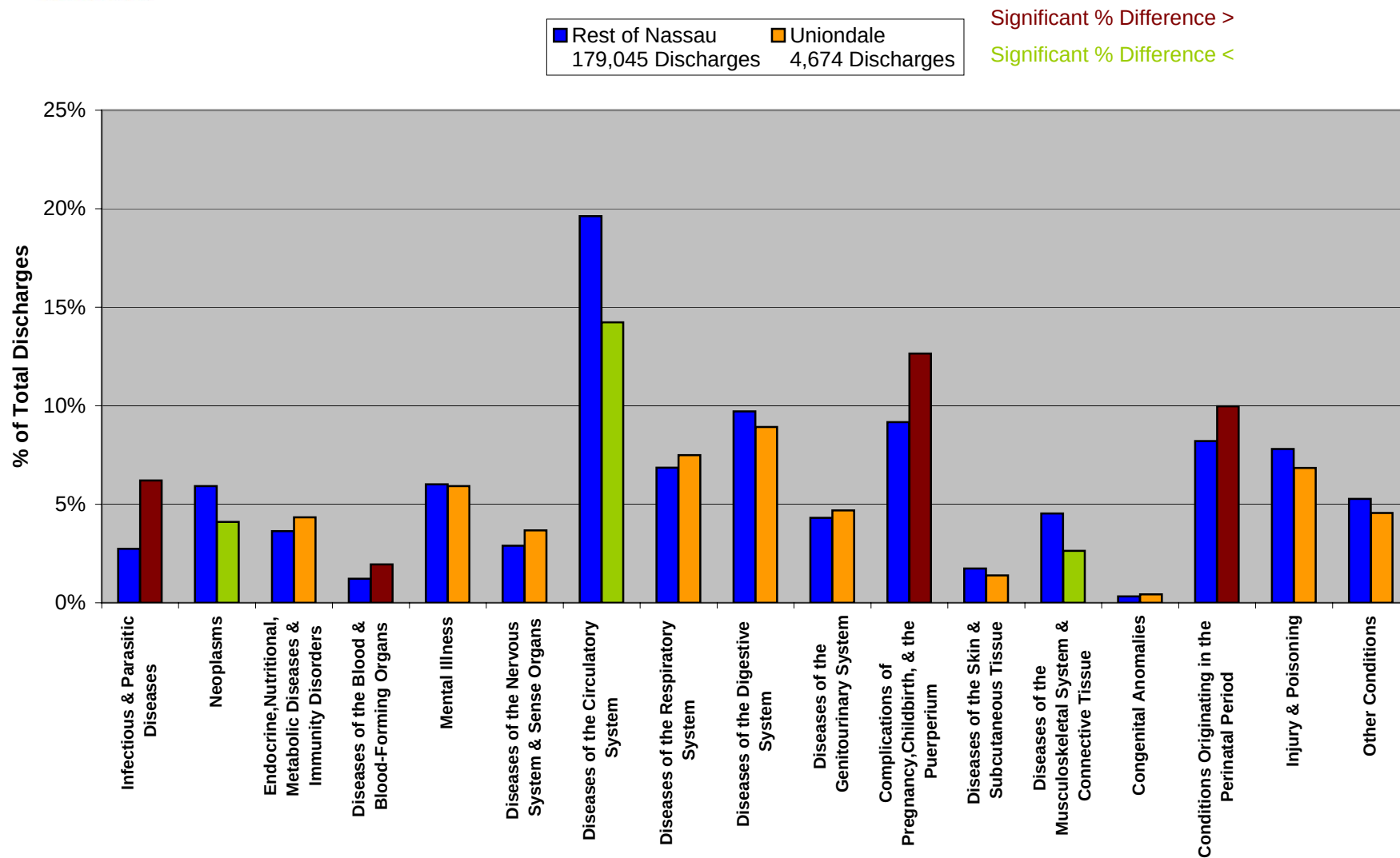
South Valley Stream Hospital Discharges 2008 by Clustered Diagnoses (CCS)



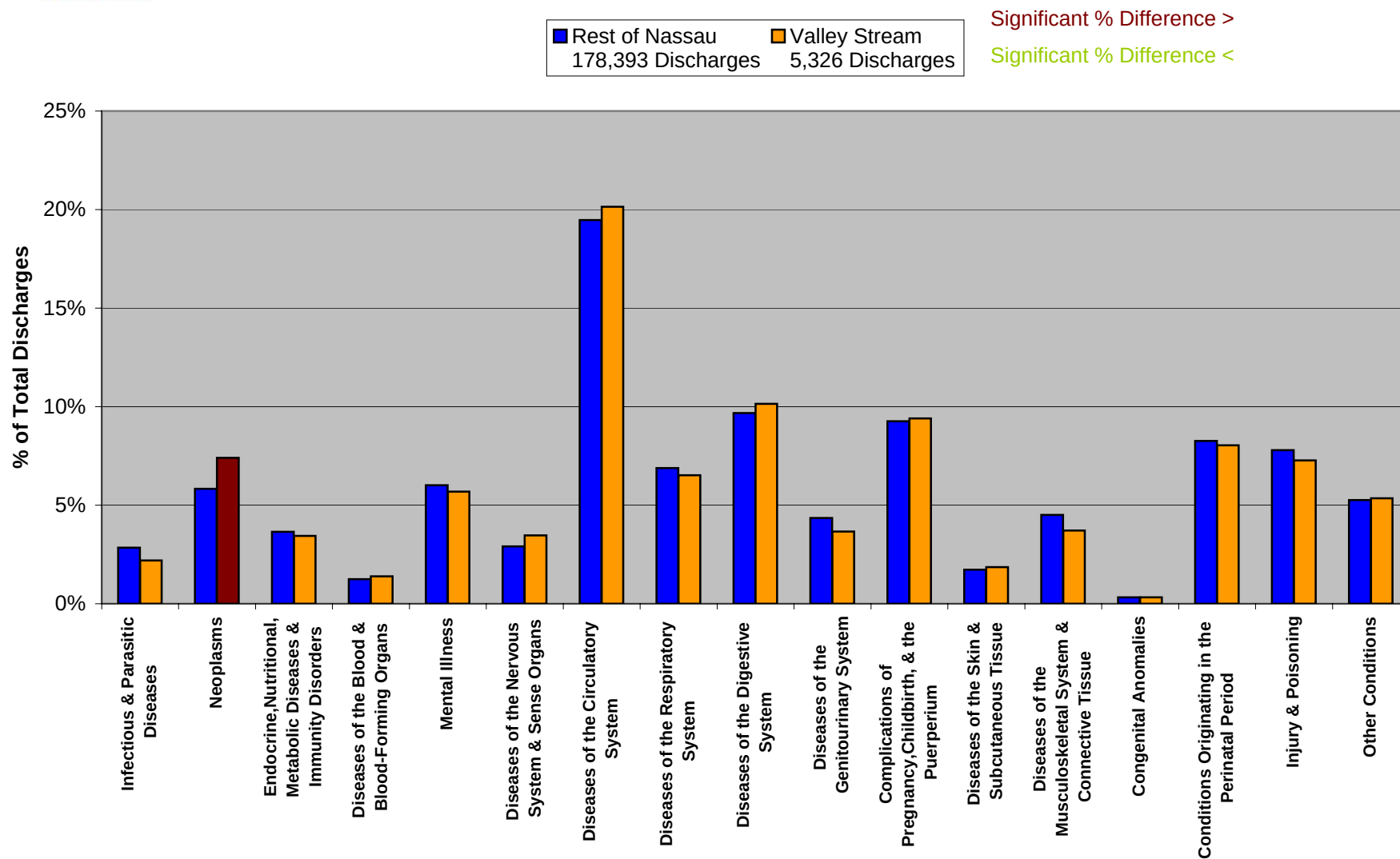
Syosset Hospital Discharges 2008 by Clustered Diagnoses (CCS)



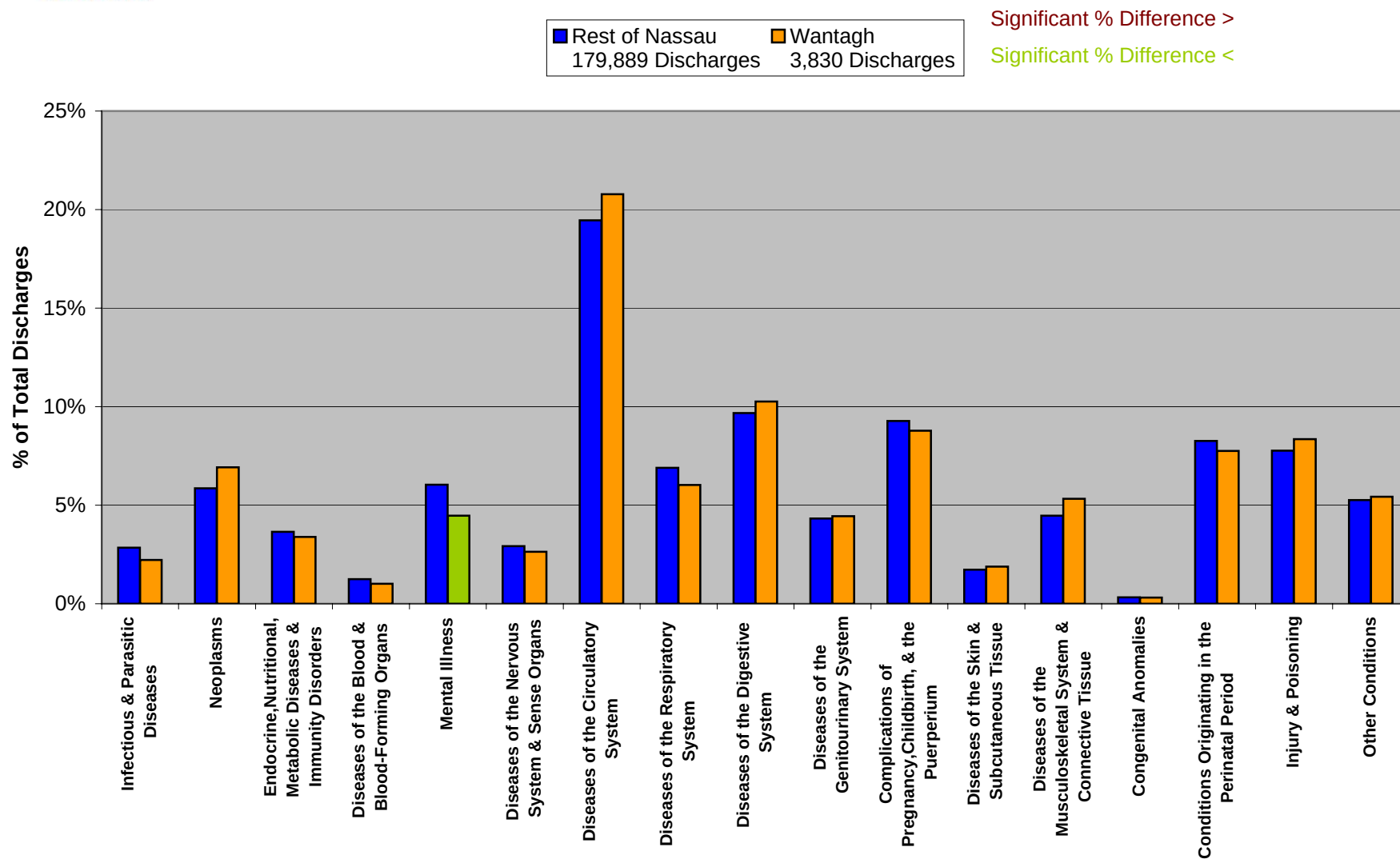
Uniondale Hospital Discharges 2008 by Clustered Diagnoses (CCS)



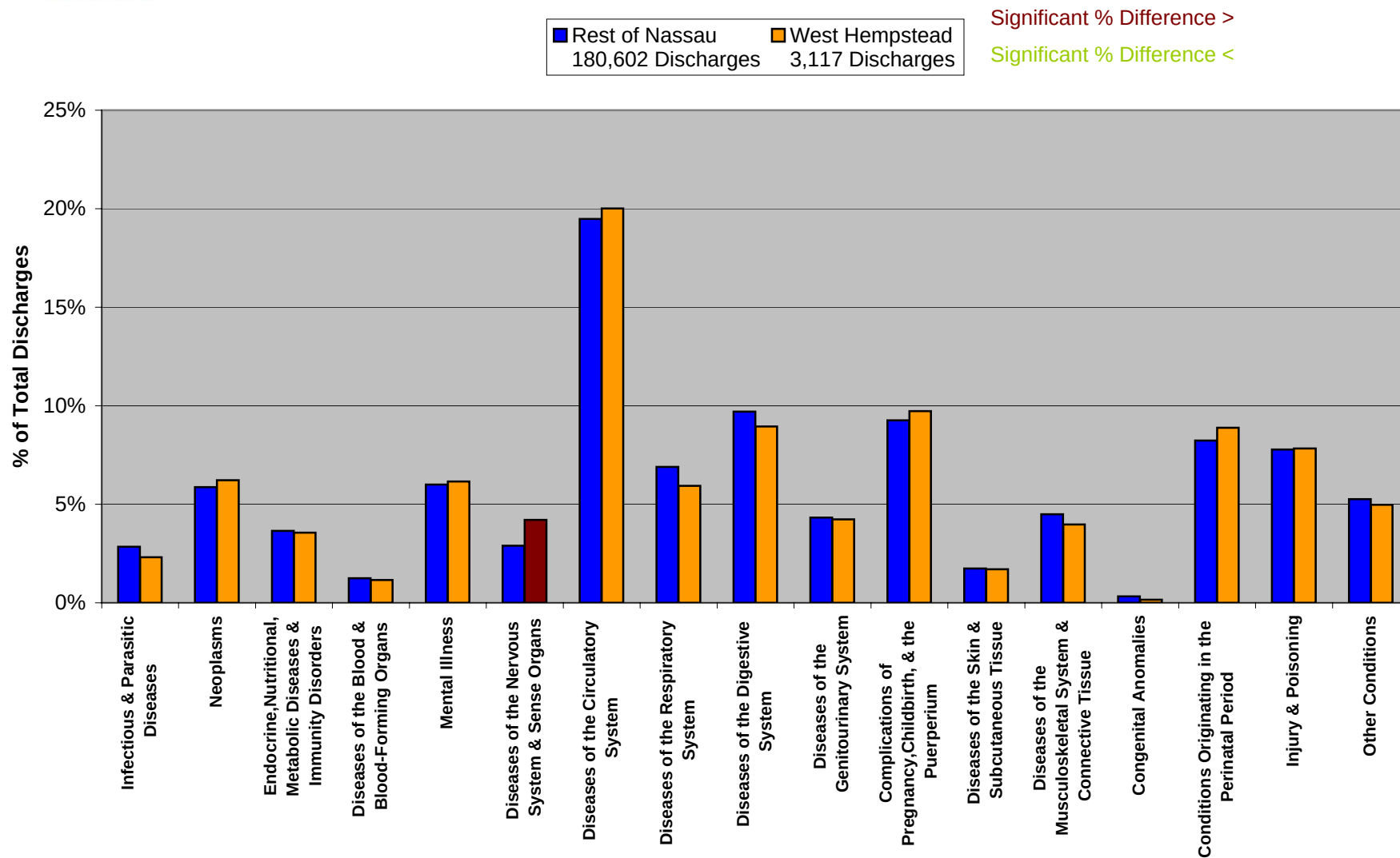
Valley Stream Hospital Discharges 2008 by Clustered Diagnoses (CCS)



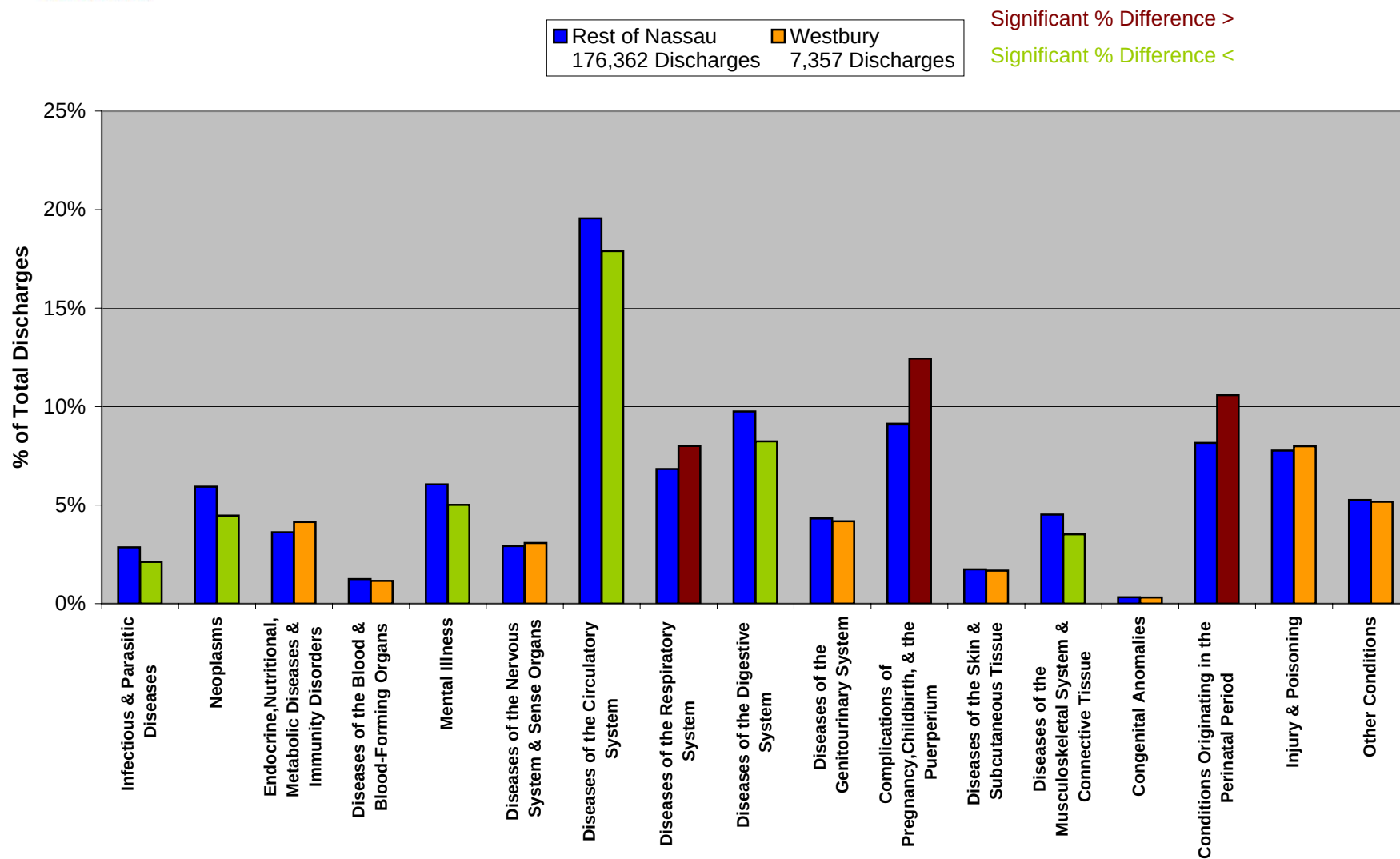
Wantagh Hospital Discharges 2008 by Clustered Diagnoses (CCS)



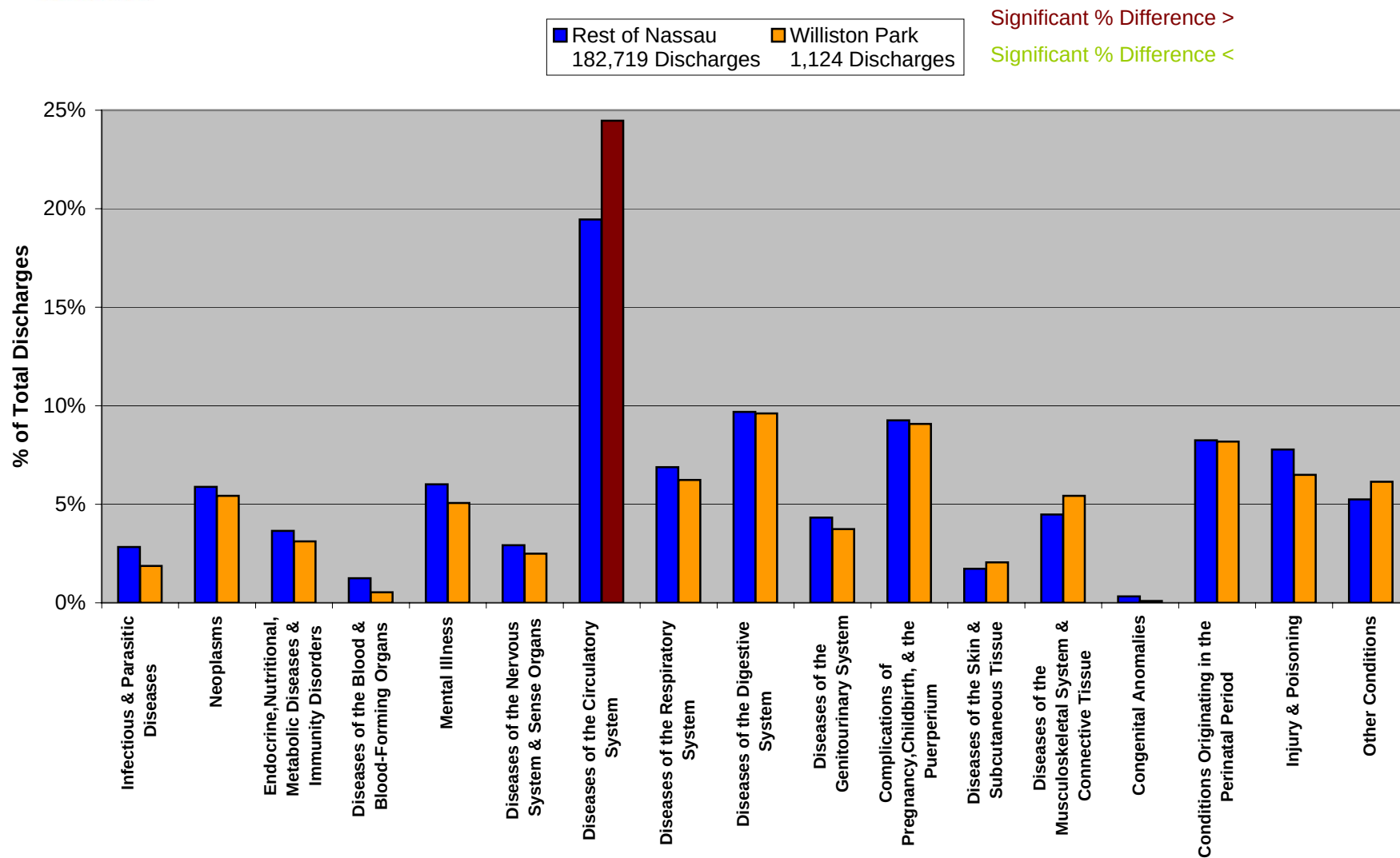
West Hempstead Hospital Discharges 2008 by Clustered Diagnoses (CCS)



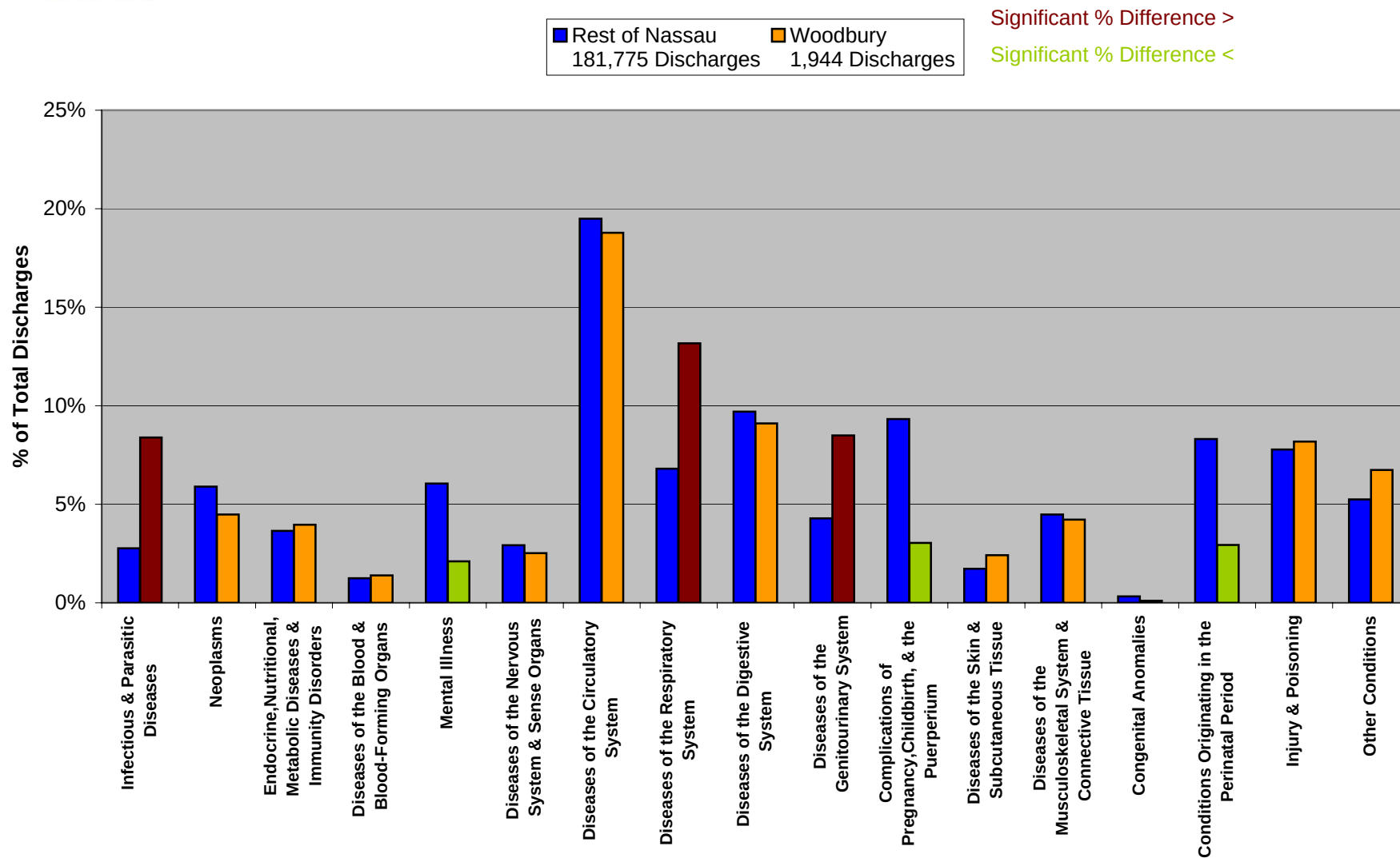
Westbury Hospital Discharges 2008 by Clustered Diagnoses (CCS)



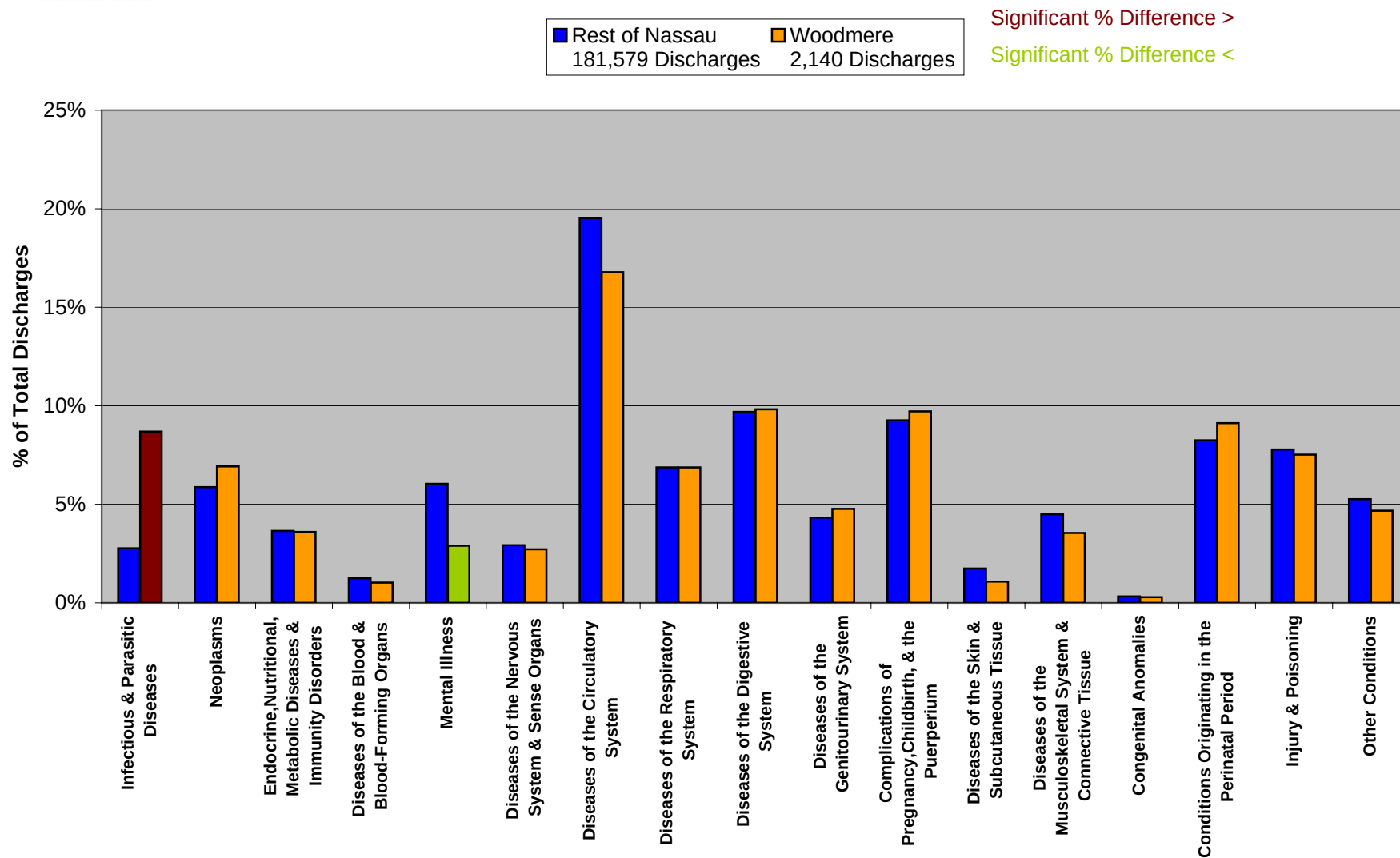
Willisston Park Hospital Discharges 2008 by Clustered Diagnoses (CCS)



Woodbury Hospital Discharges 2008 by Clustered Diagnoses (CCS)

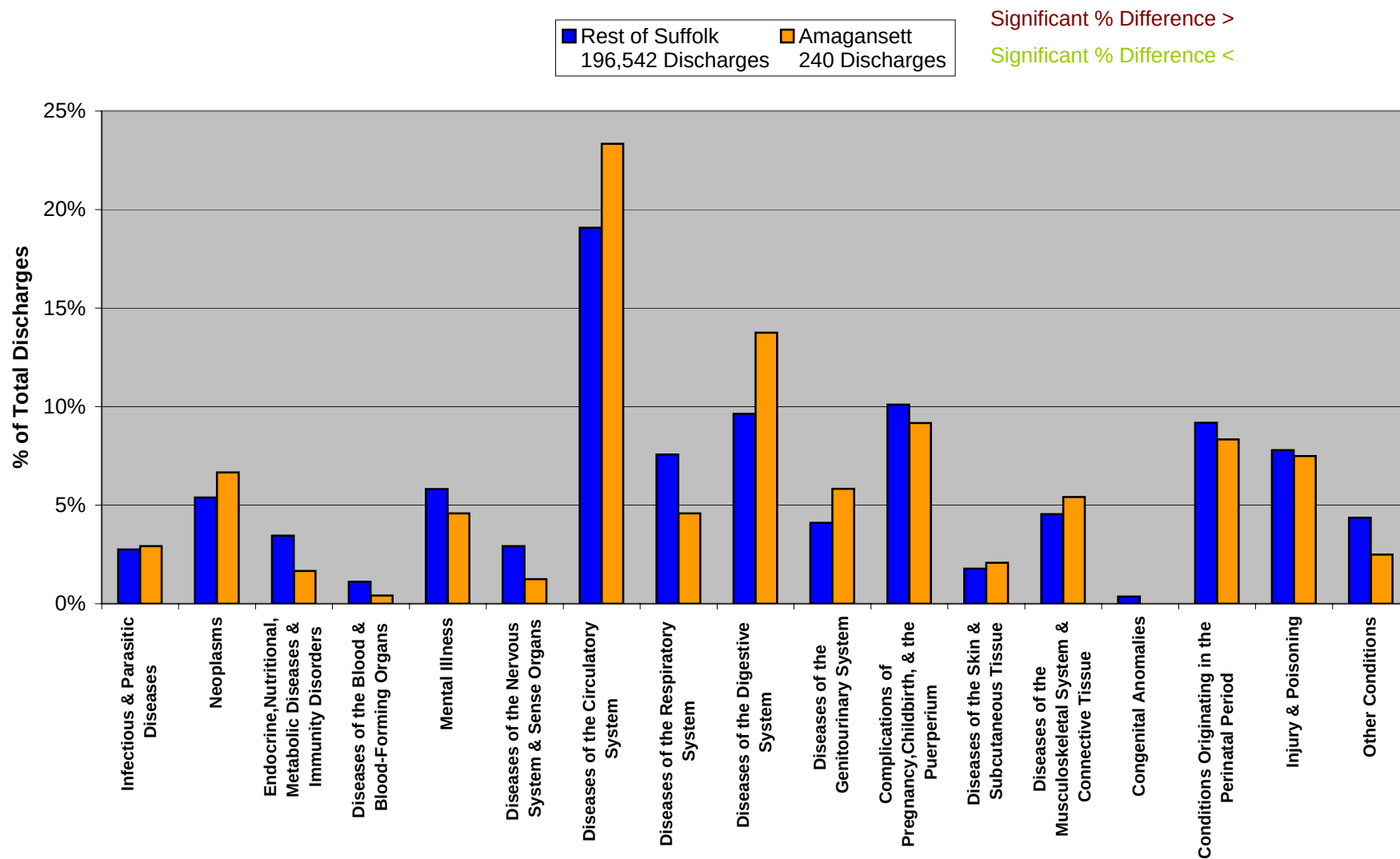


Woodmere Hospital Discharges 2008 by Clustered Diagnoses (CCS)

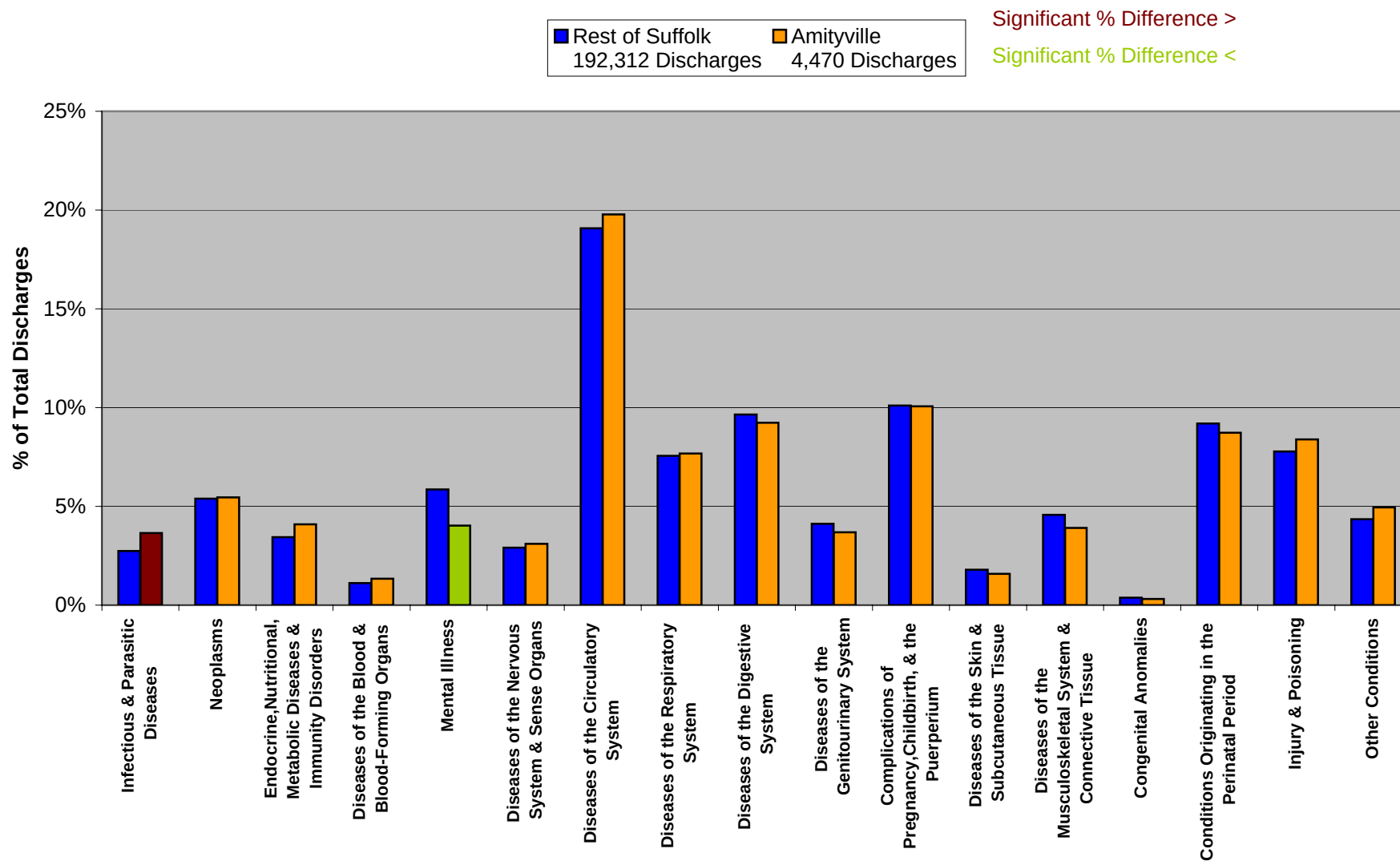


Suffolk County

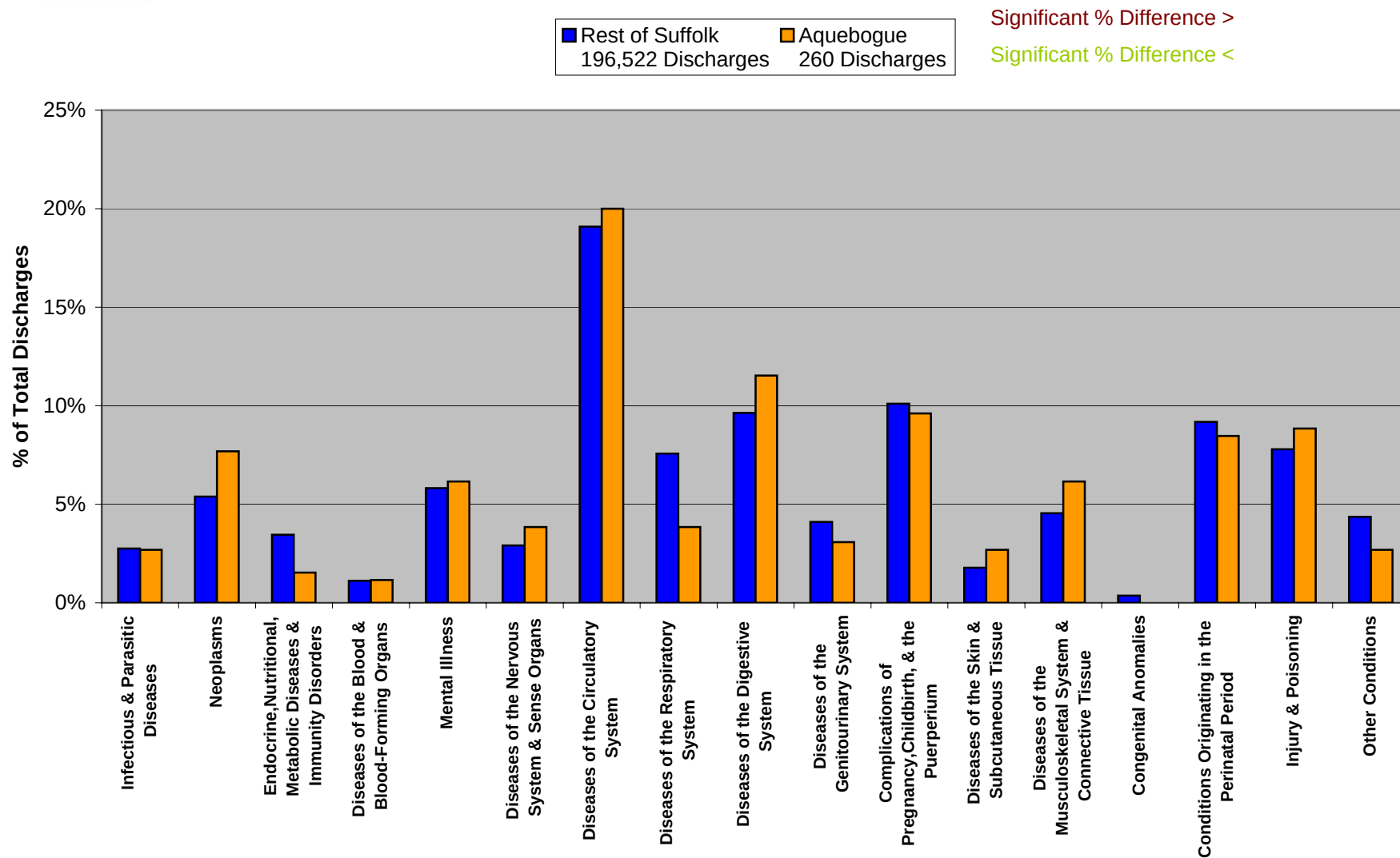
Amagansett Hospital Discharges 2008 by Clustered Diagnoses (CCS)



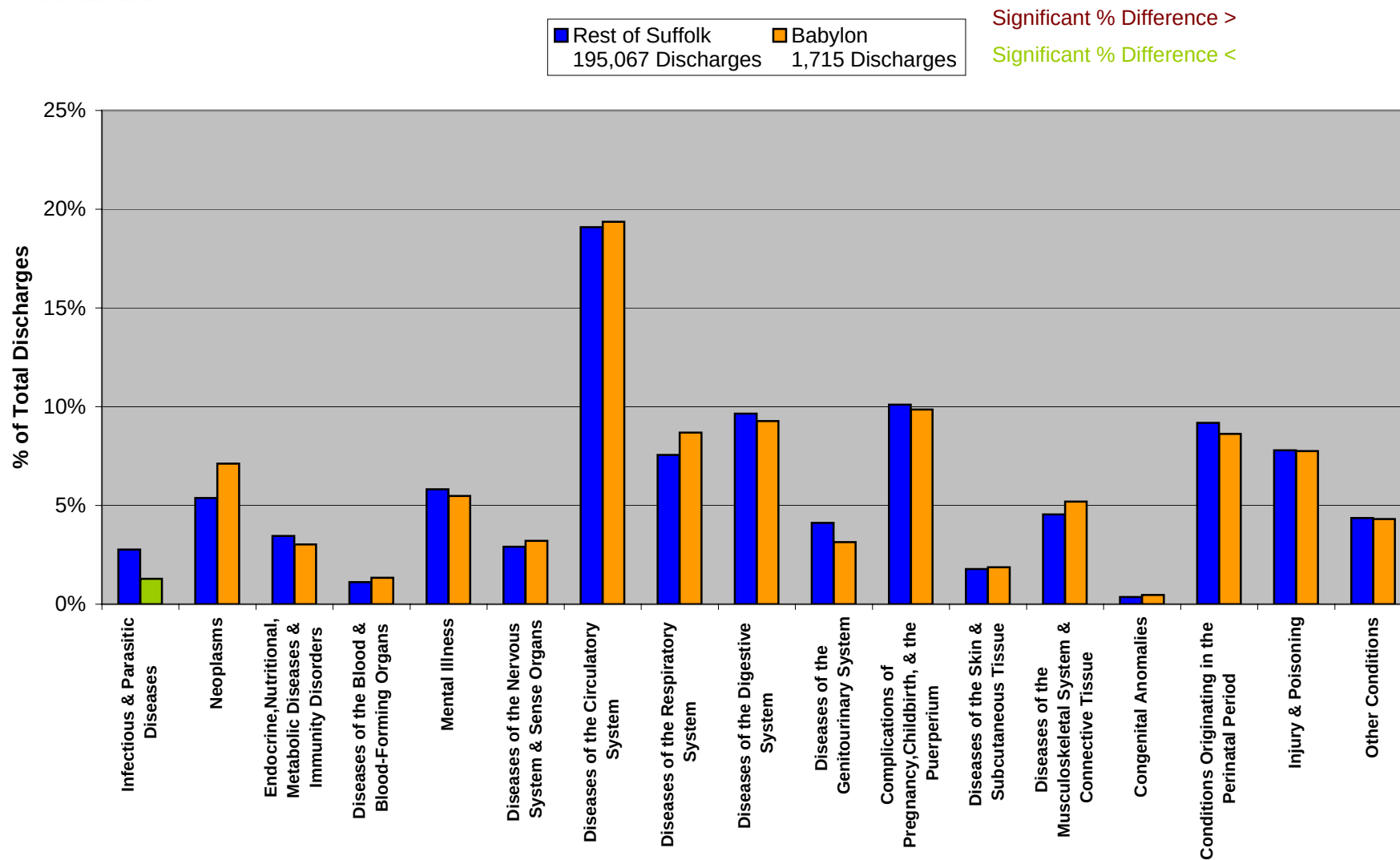
Amityville Hospital Discharges 2008 by Clustered Diagnoses (CCS)



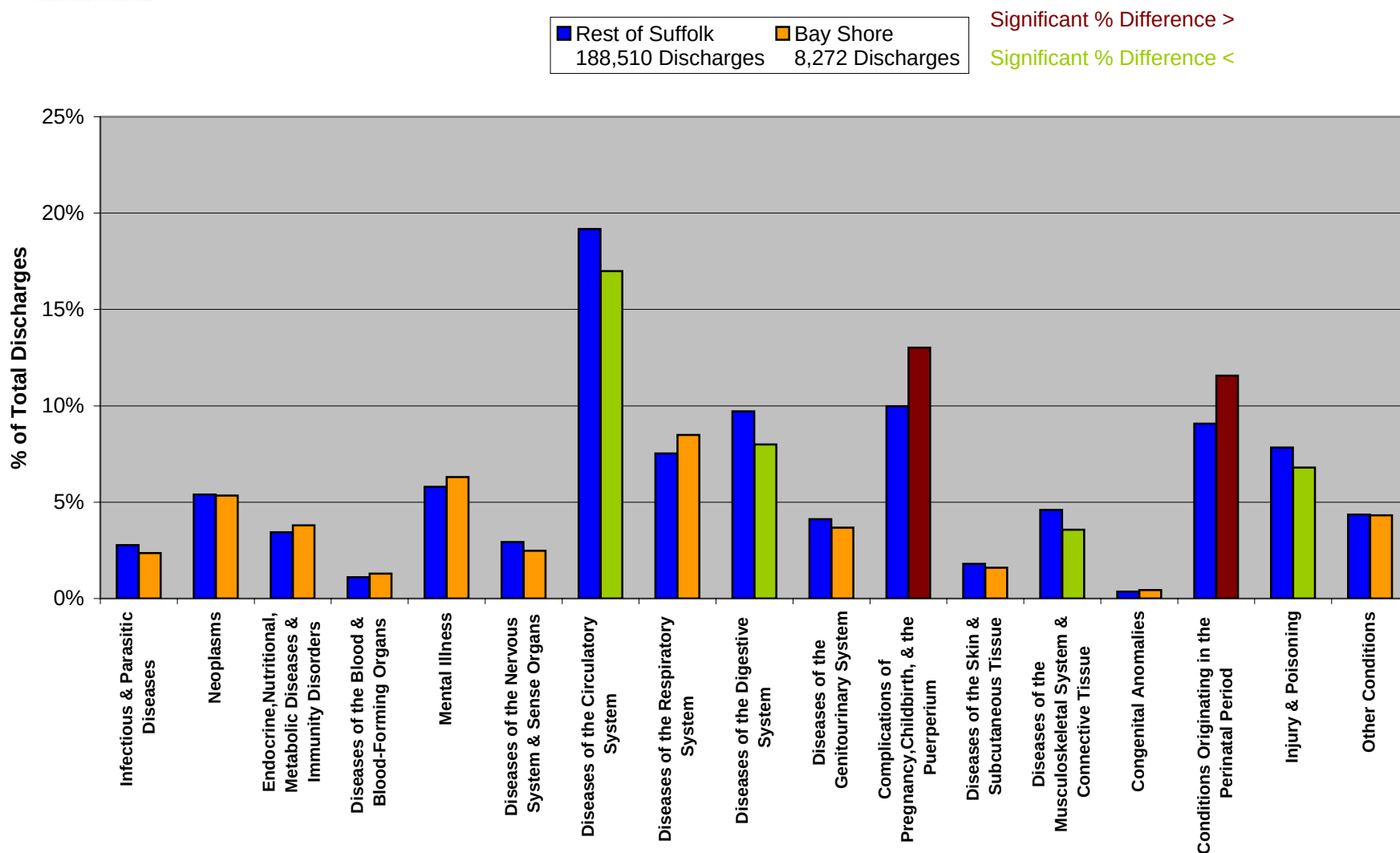
Aquebogue Hospital Discharges 2008 by Clustered Diagnoses (CCS)



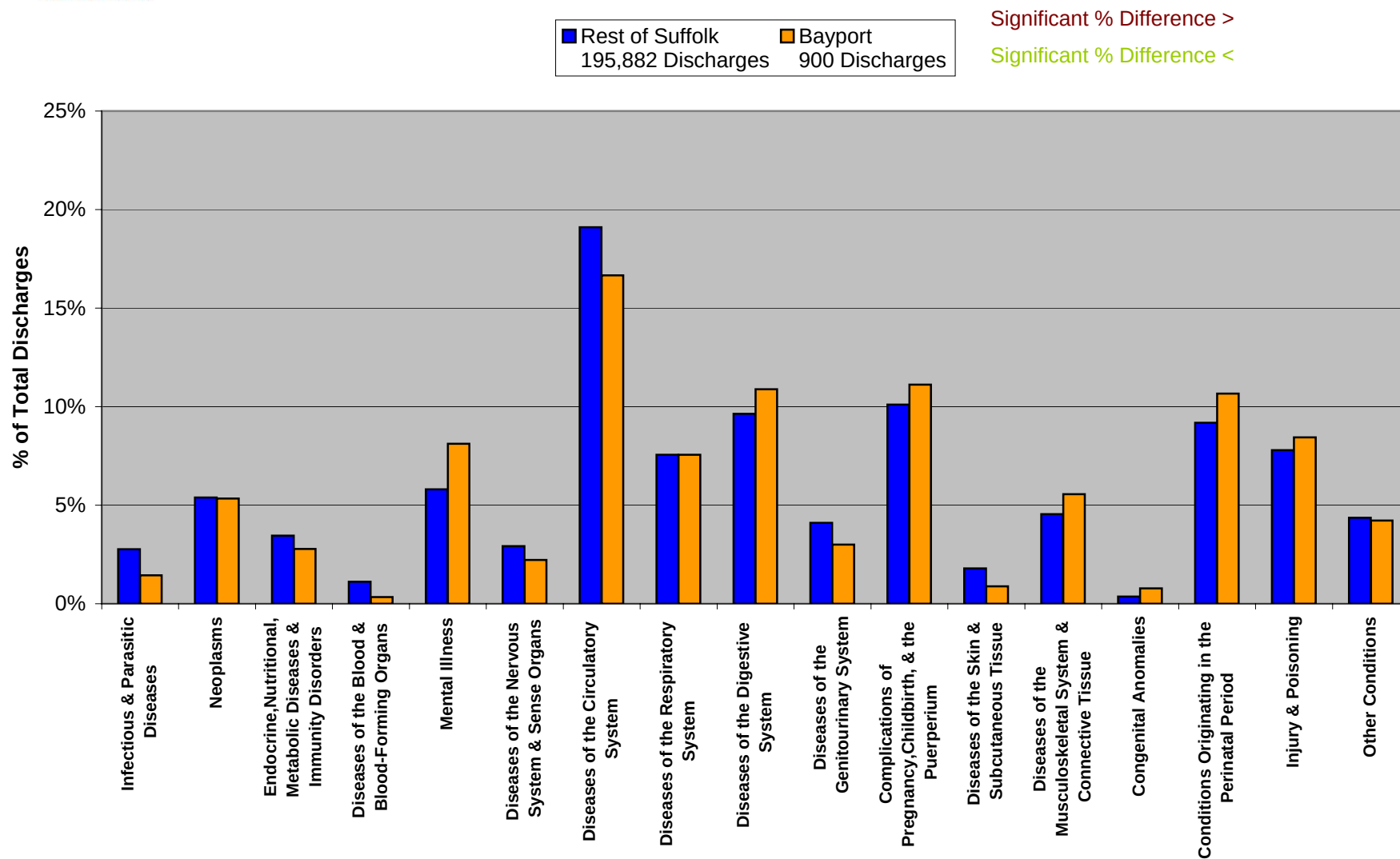
Babylon Hospital Discharges 2008 by Clustered Diagnoses (CCS)



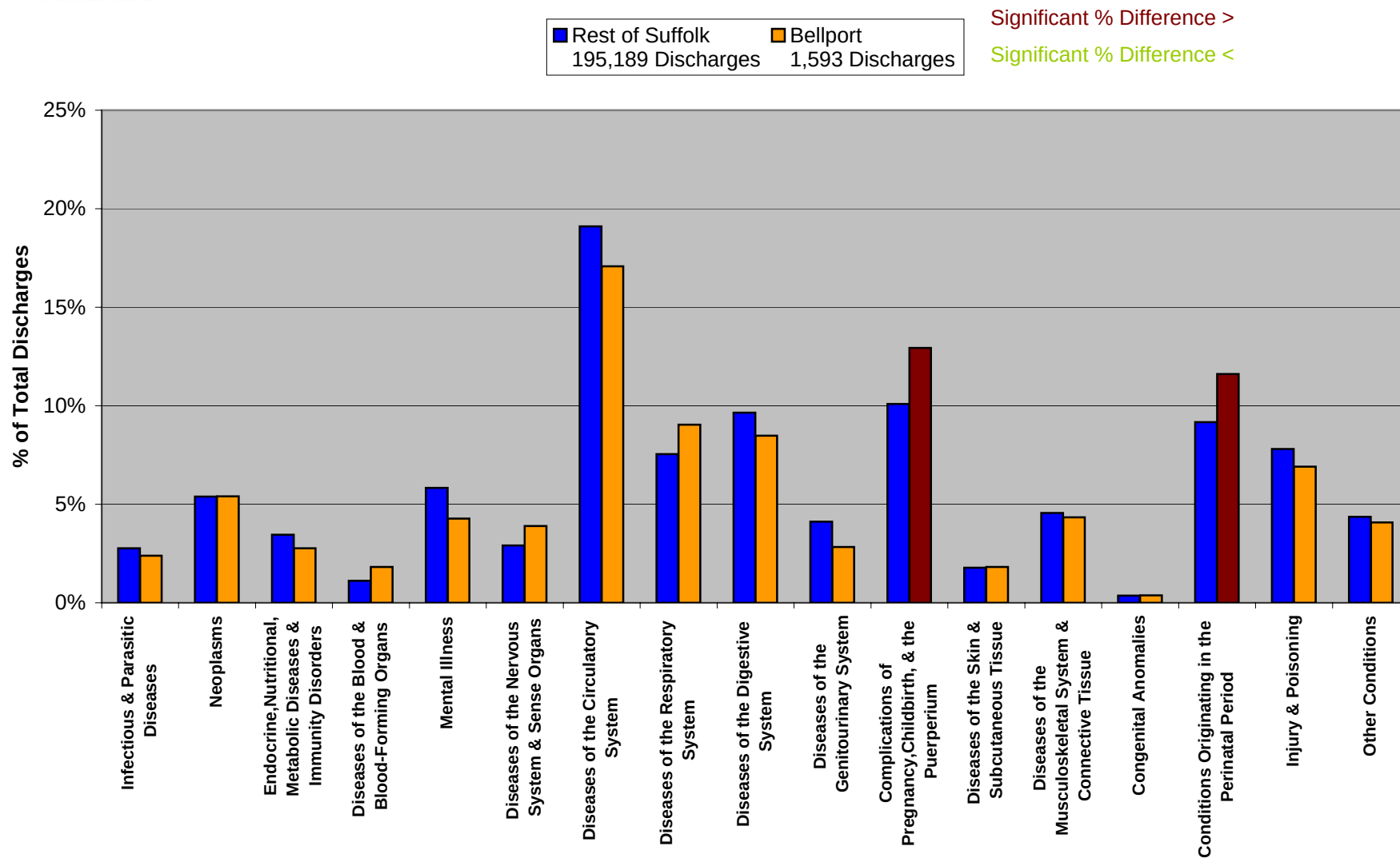
Bay Shore Hospital Discharges 2008 by Clustered Diagnoses (CCS)



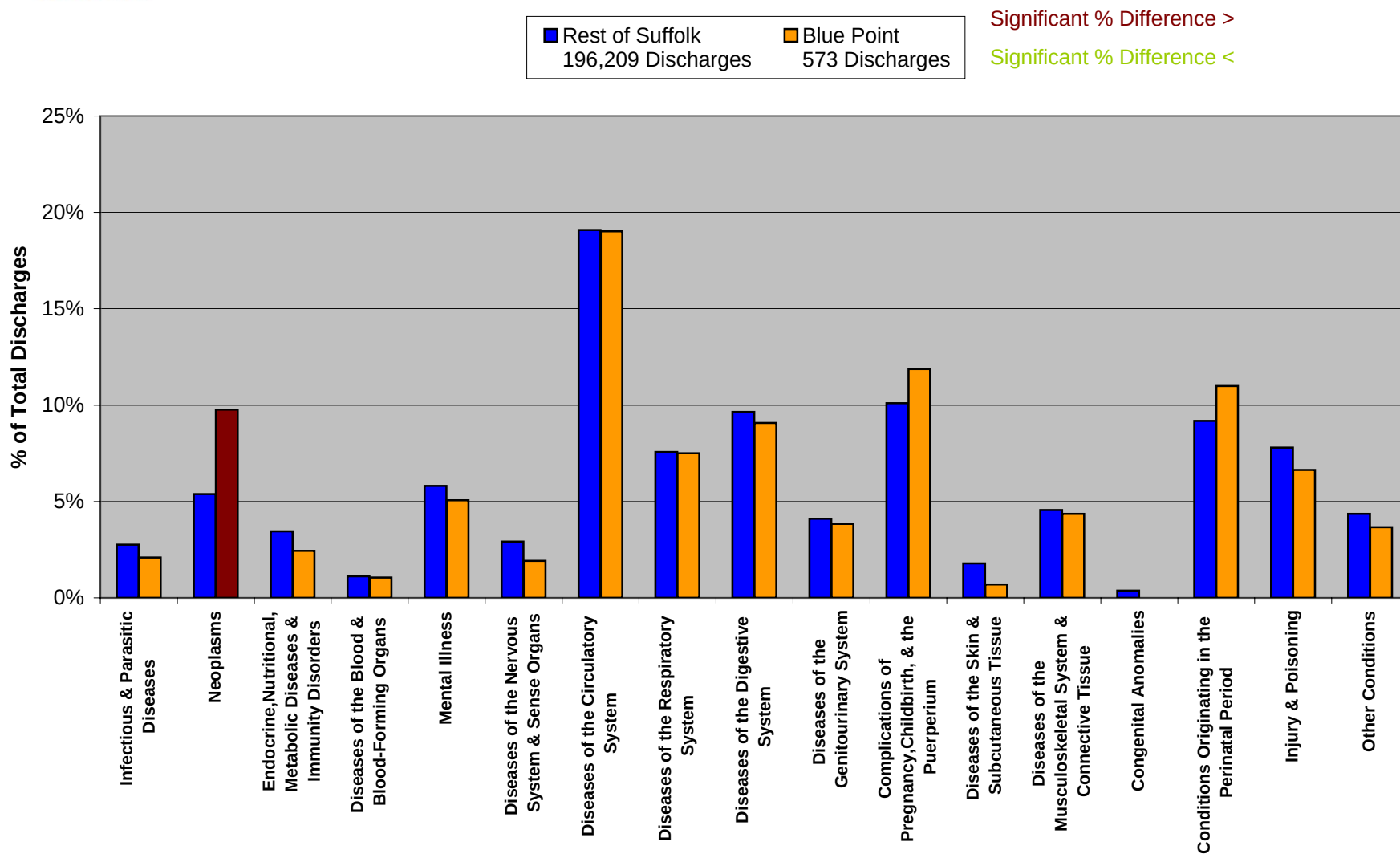
Bayport Hospital Discharges 2008 by Clustered Diagnoses (CCS)



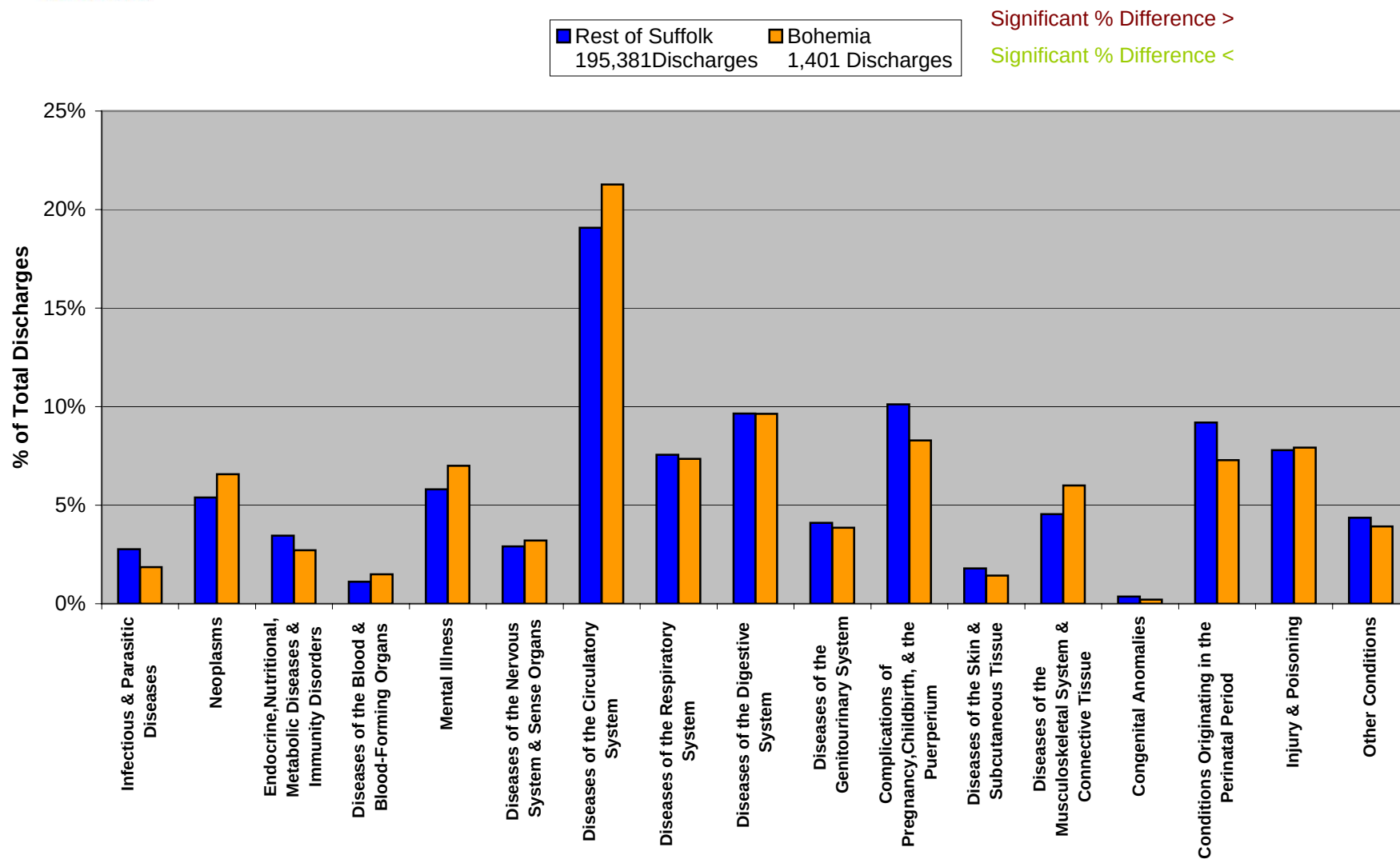
Bellport Hospital Discharges 2008 by Clustered Diagnoses (CCS)



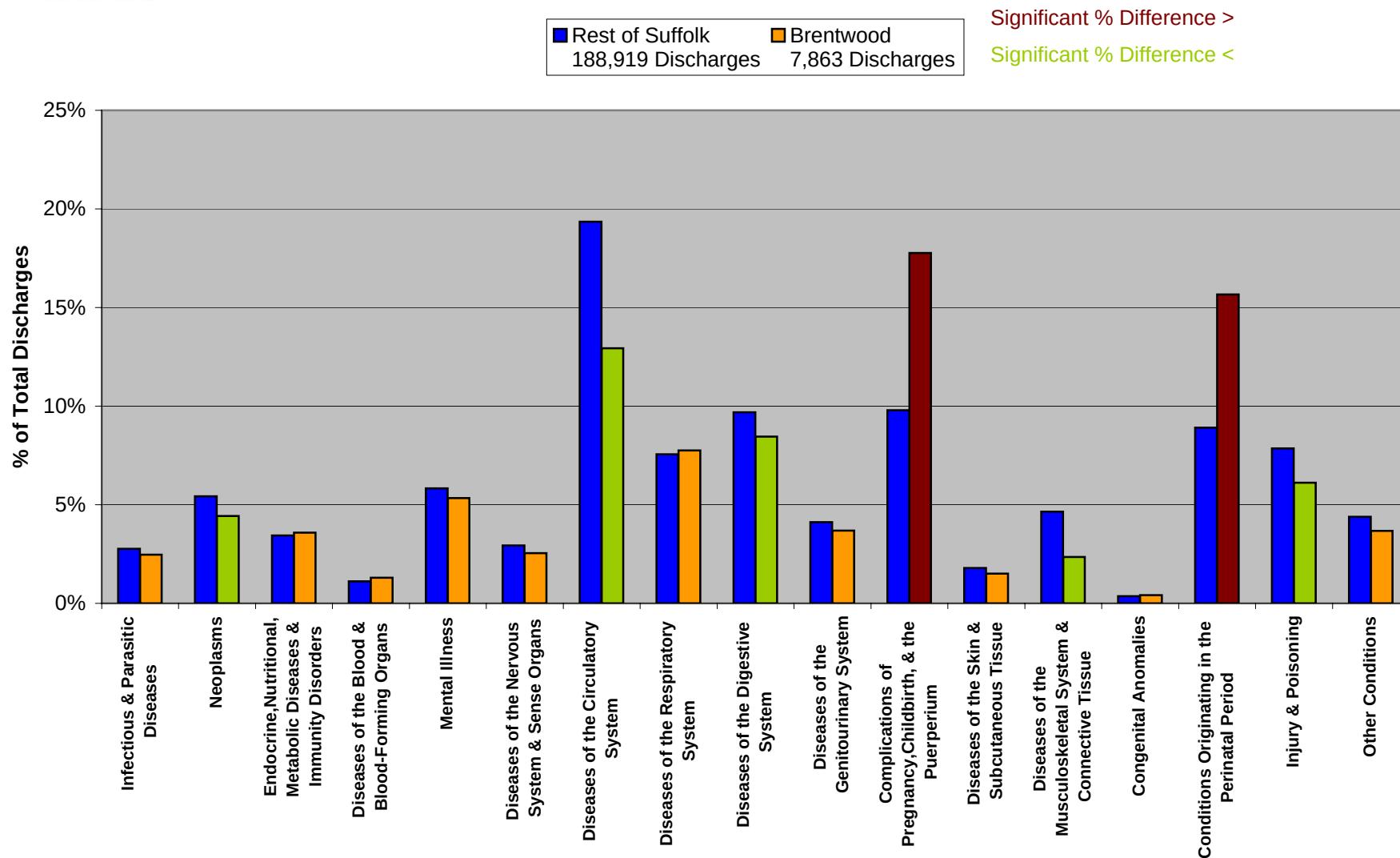
Blue Point Hospital Discharges 2008 by Clustered Diagnoses (CCS)



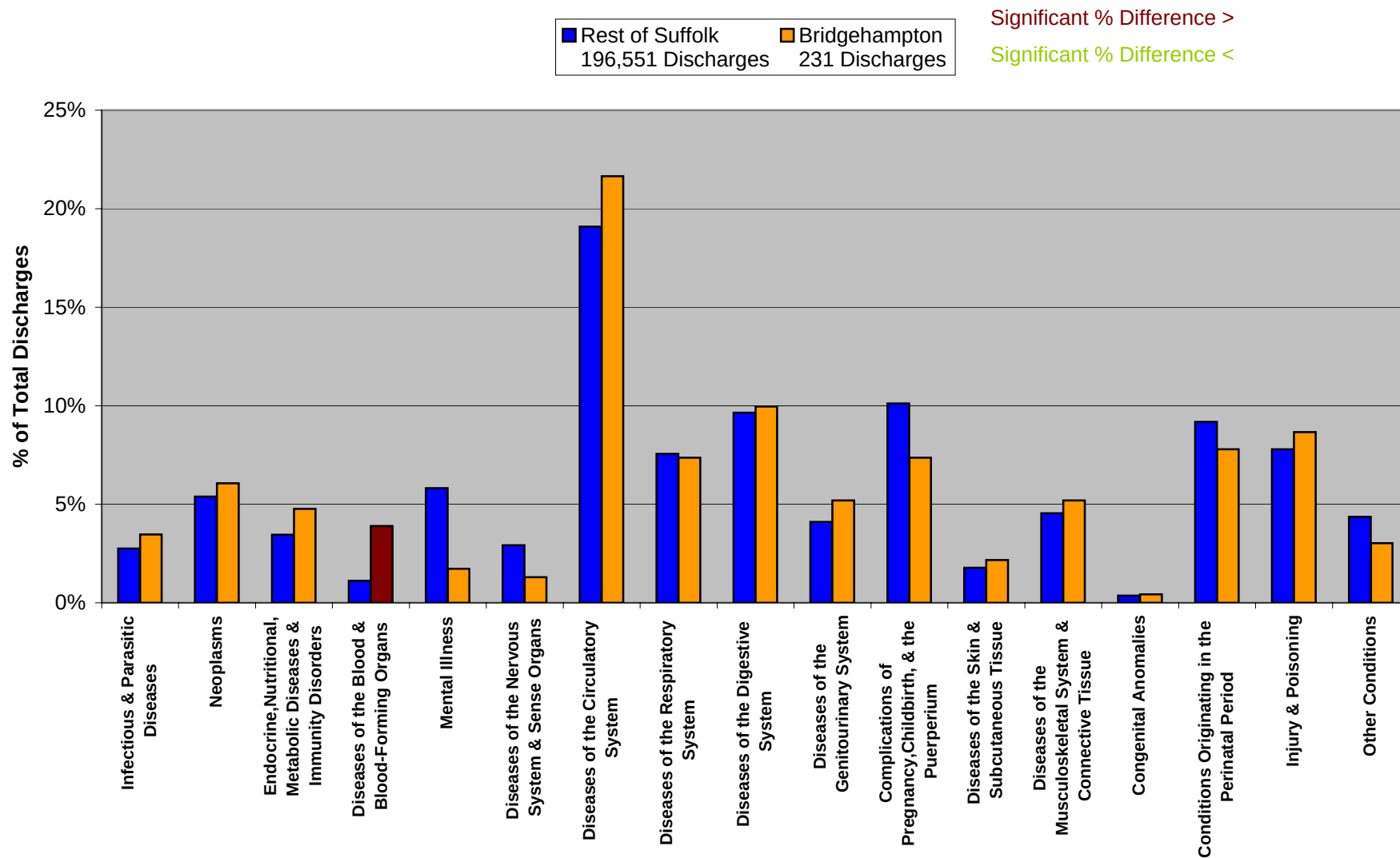
Bohemia Hospital Discharges 2008 by Clustered Diagnoses (CCS)



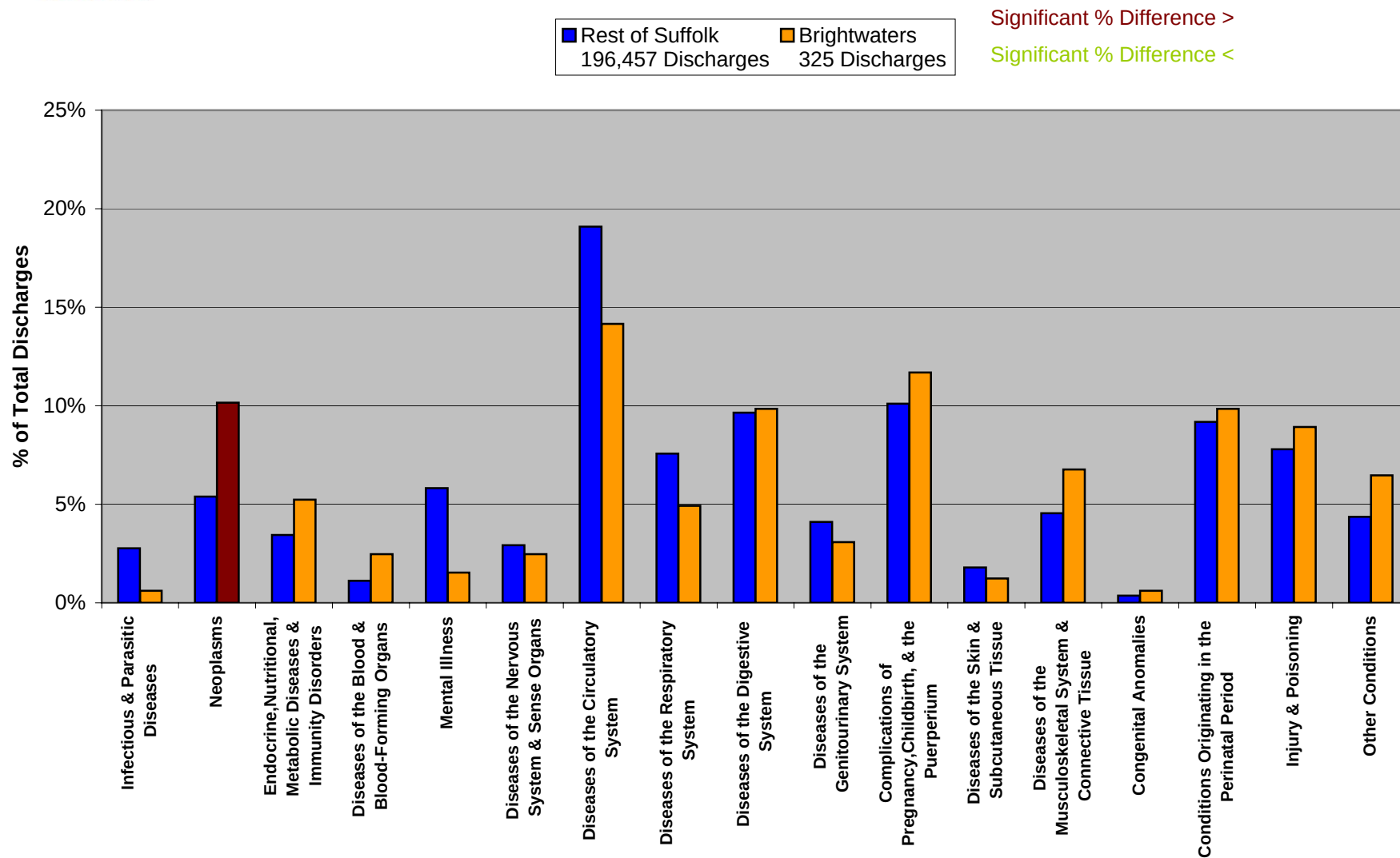
Brentwood Hospital Discharges 2008 by Clustered Diagnoses (CCS)



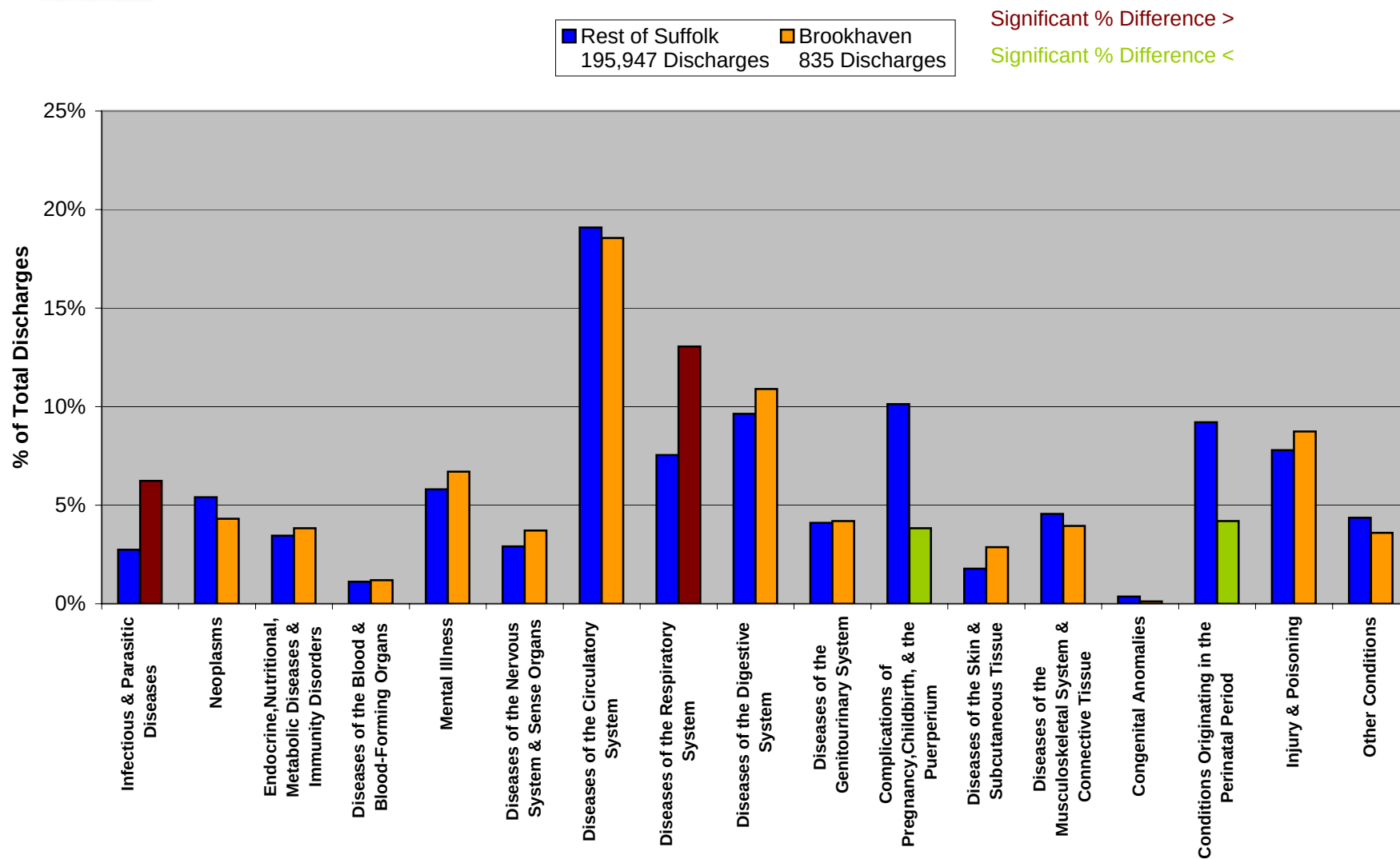
Bridgehampton Hospital Discharges 2008 by Clustered Diagnoses (CCS)



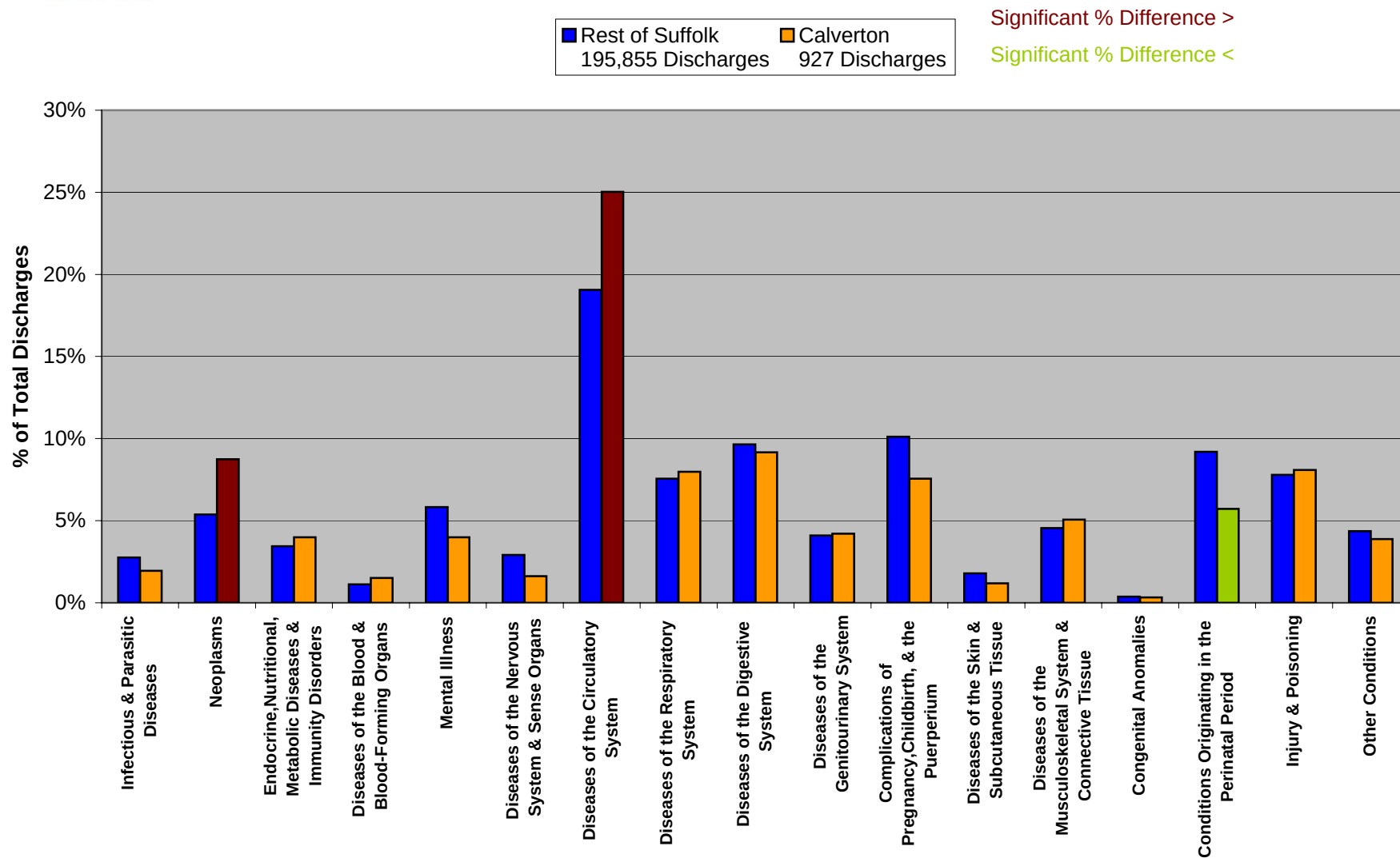
Brightwaters Hospital Discharges 2008 by Clustered Diagnoses (CCS)



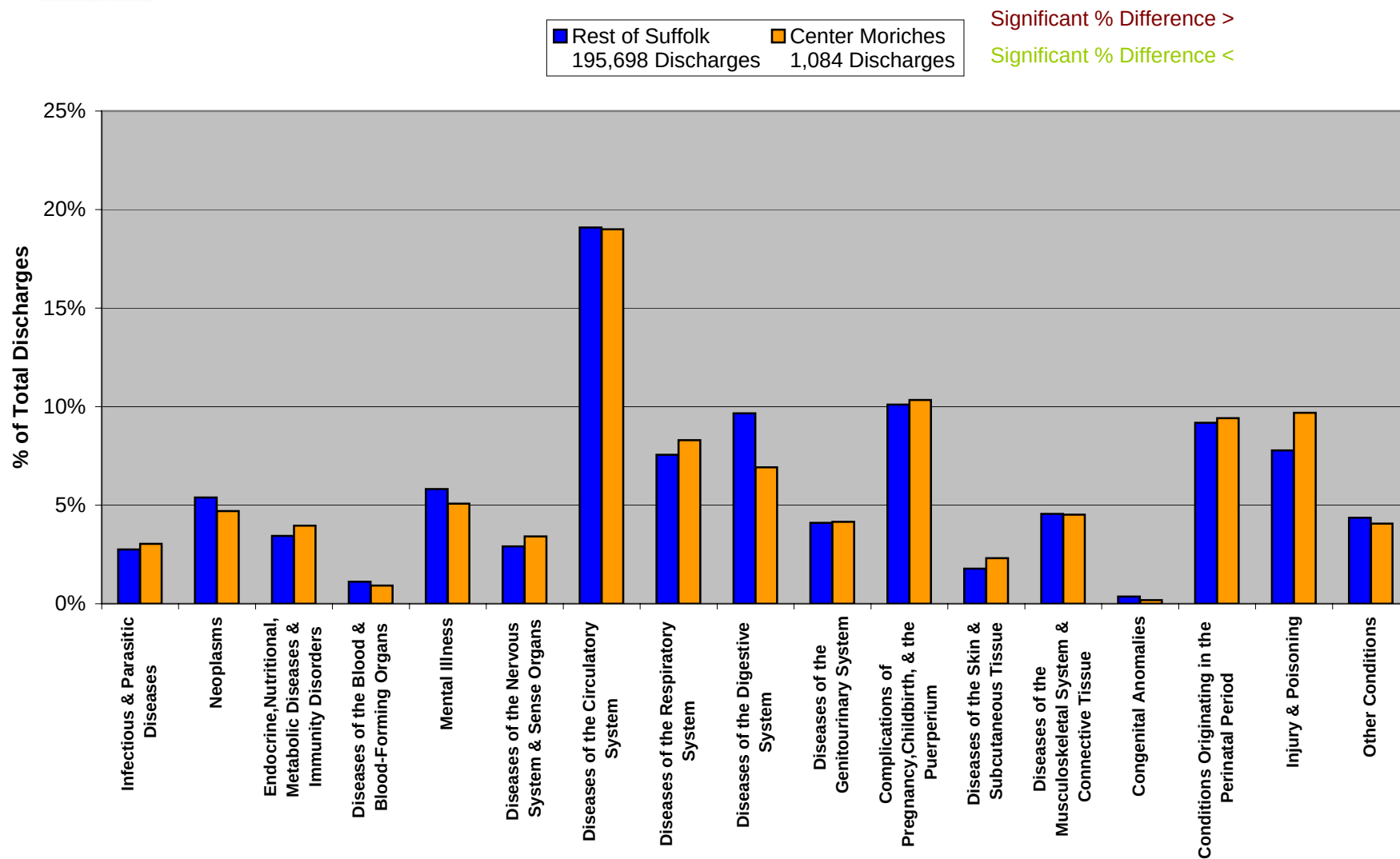
Brookhaven Hospital Discharges 2008 by Clustered Diagnoses (CCS)



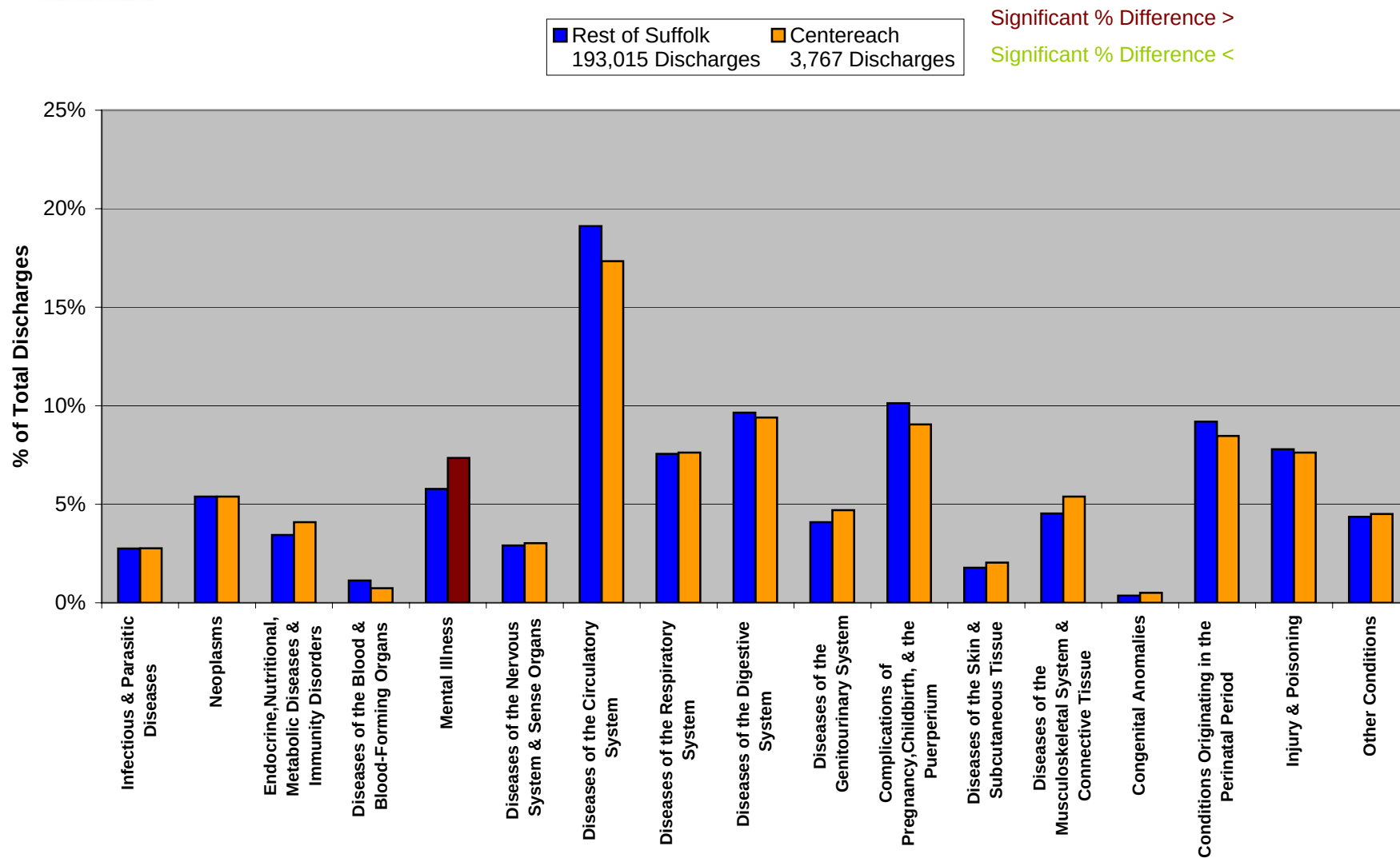
Calverton Hospital Discharges 2008 by Clustered Diagnoses (CCS)



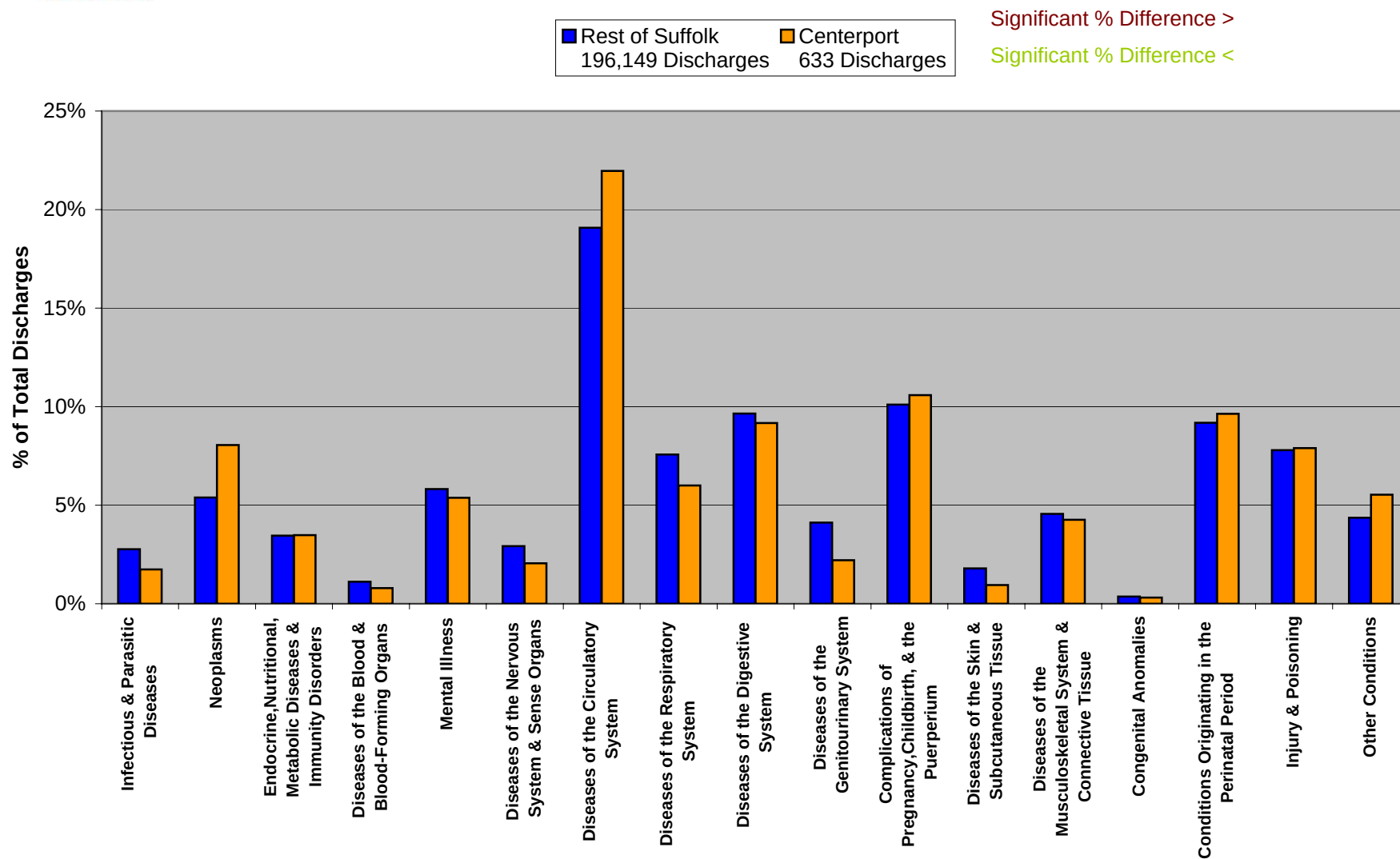
Center Moriches Hospital Discharges 2008 by Clustered Diagnoses (CCS)



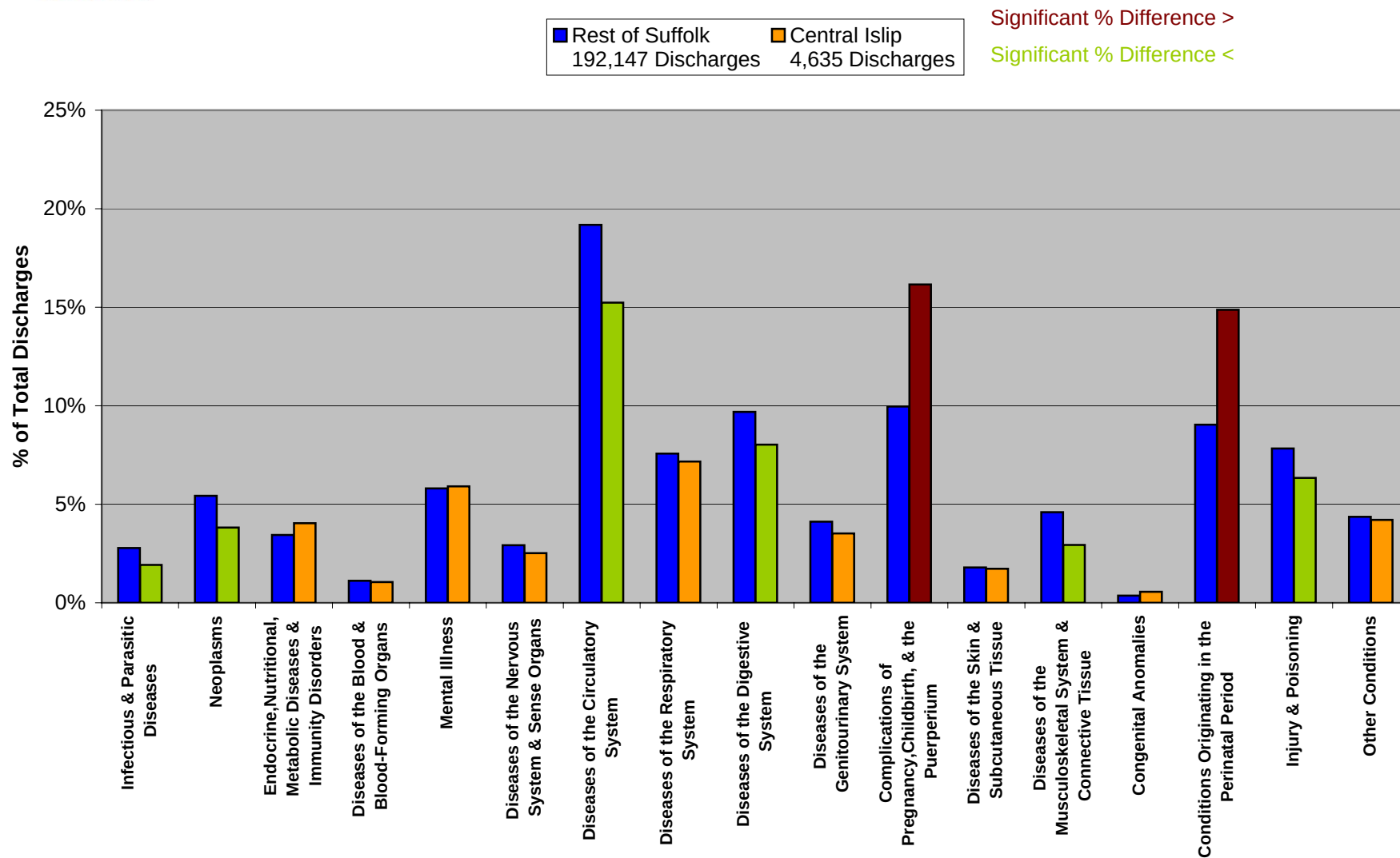
Centereach **Hospital Discharges 2008 by Clustered Diagnoses (CCS)**



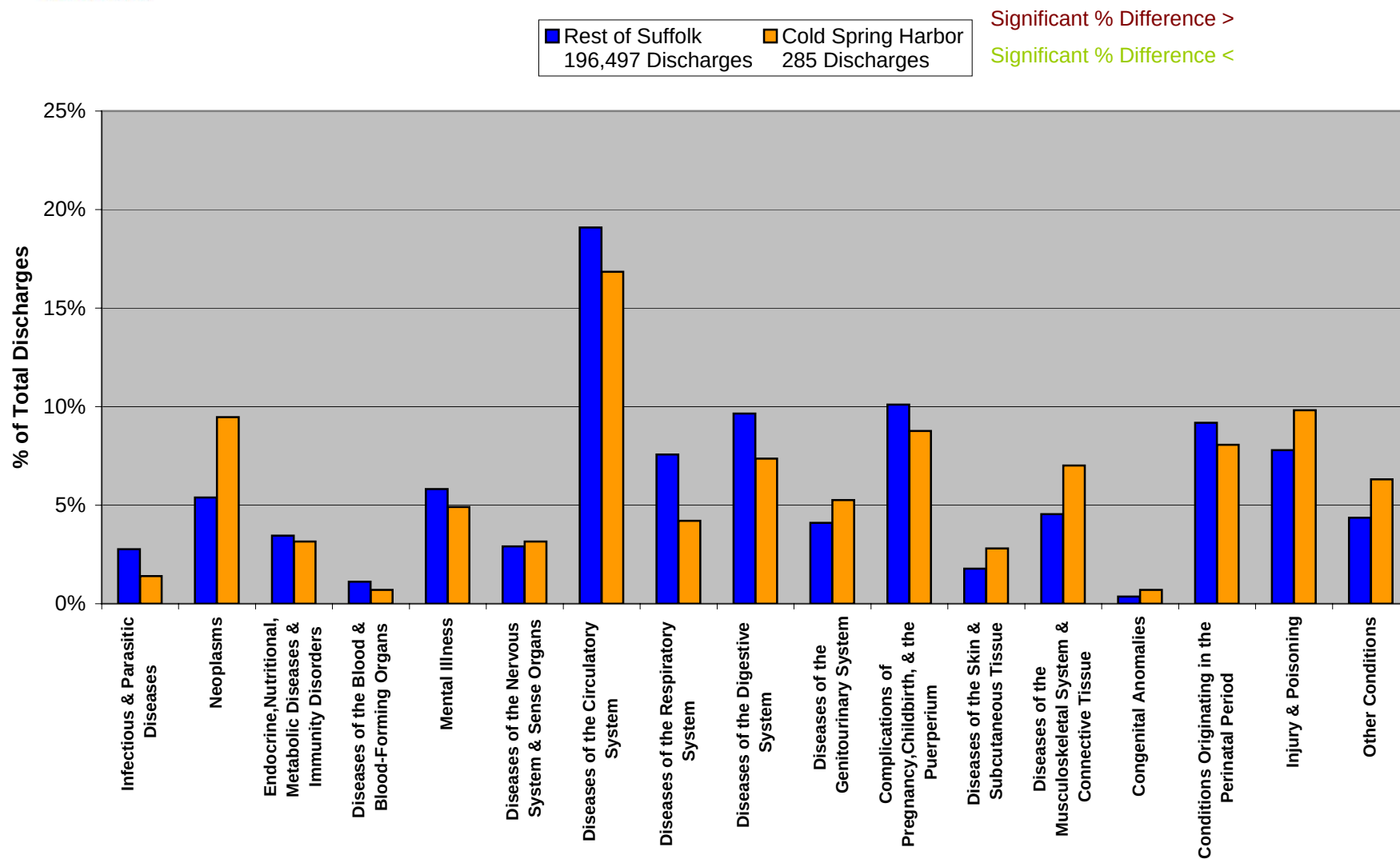
Centerport Hospital Discharges 2008 by Clustered Diagnoses (CCS)



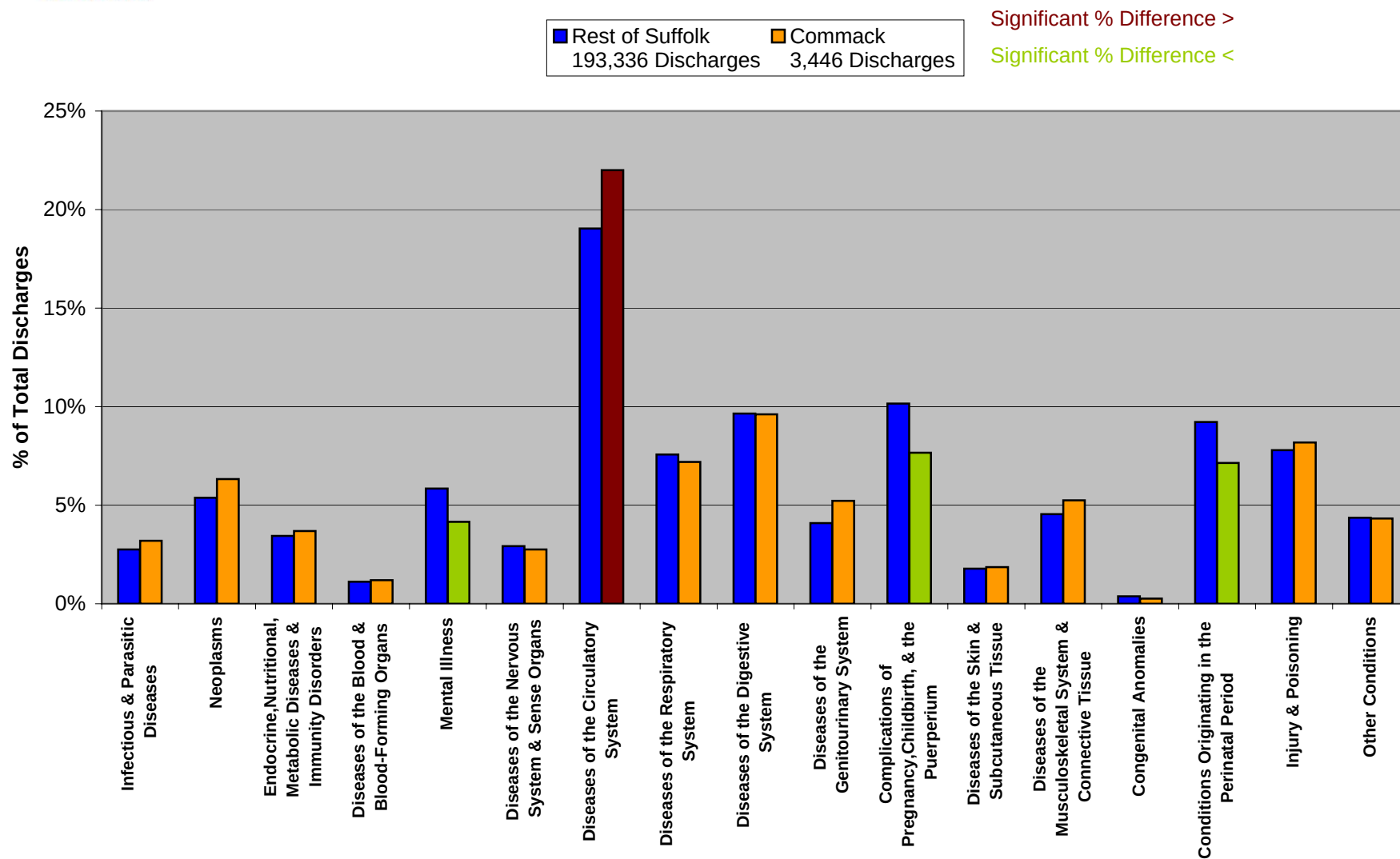
Central Islip Hospital Discharges 2008 by Clustered Diagnoses (CCS)



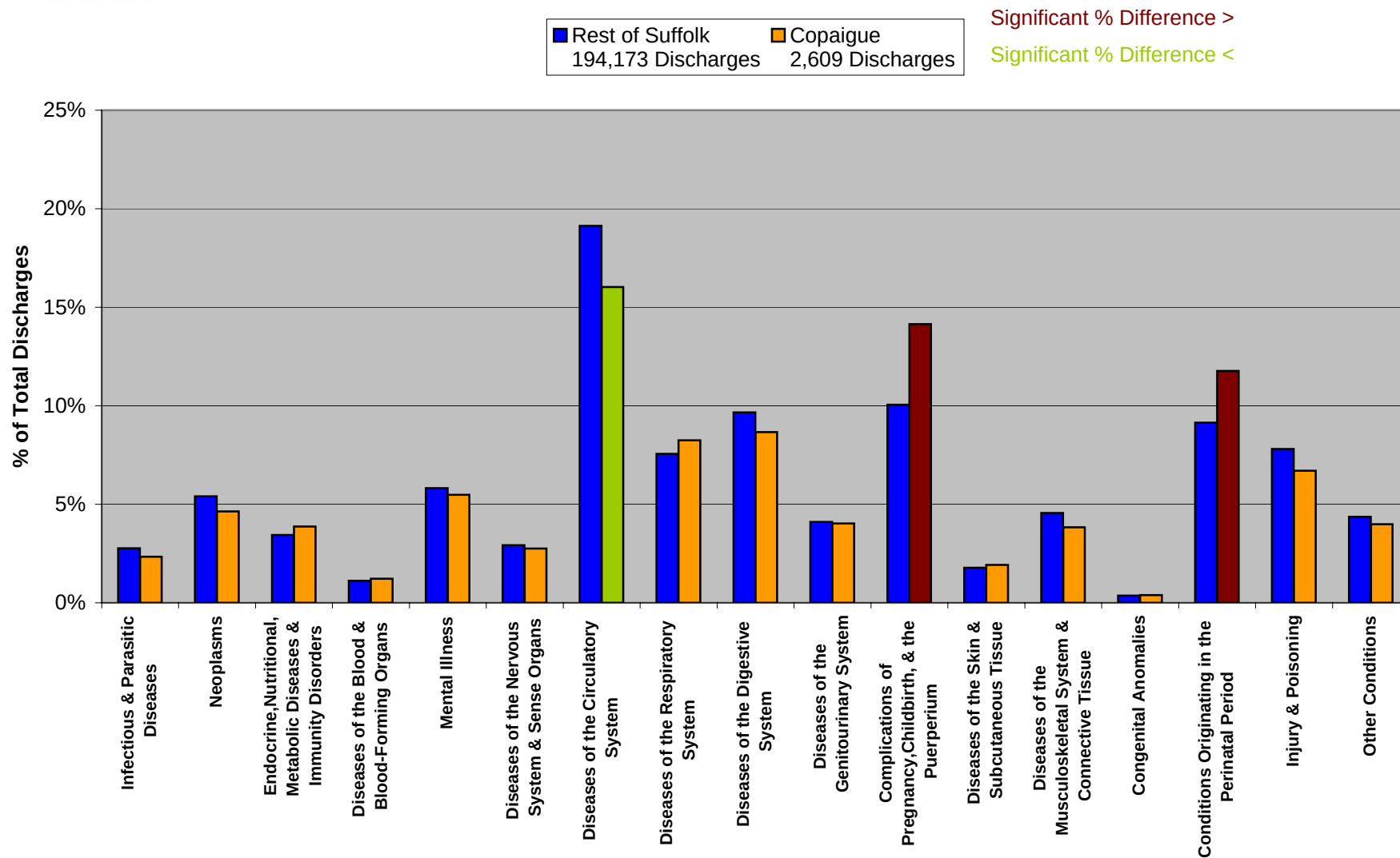
Cold Spring Harbor Hospital Discharges 2008 by Clustered Diagnoses (CCS)



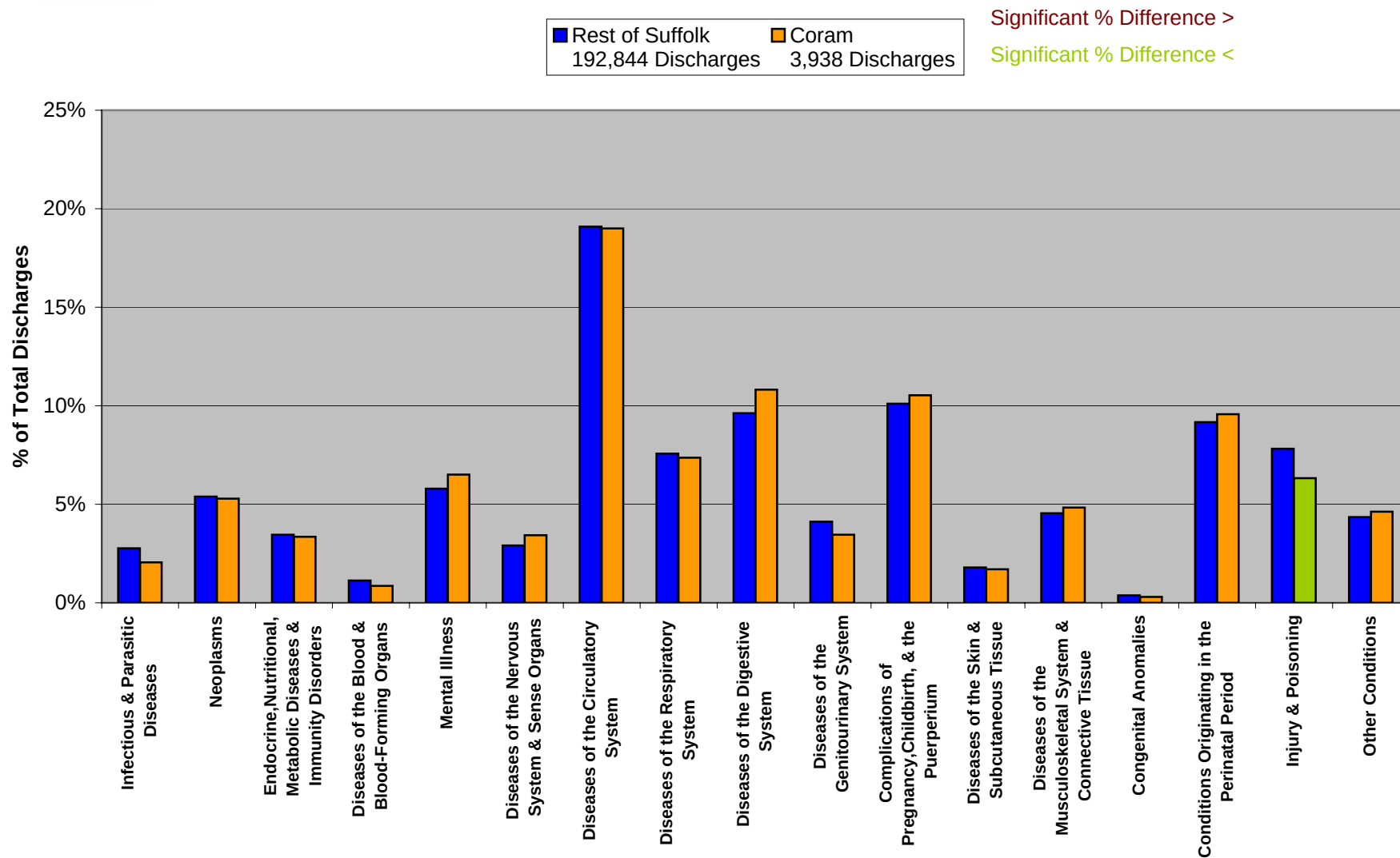
Commack Hospital Discharges 2008 by Clustered Diagnoses (CCS)



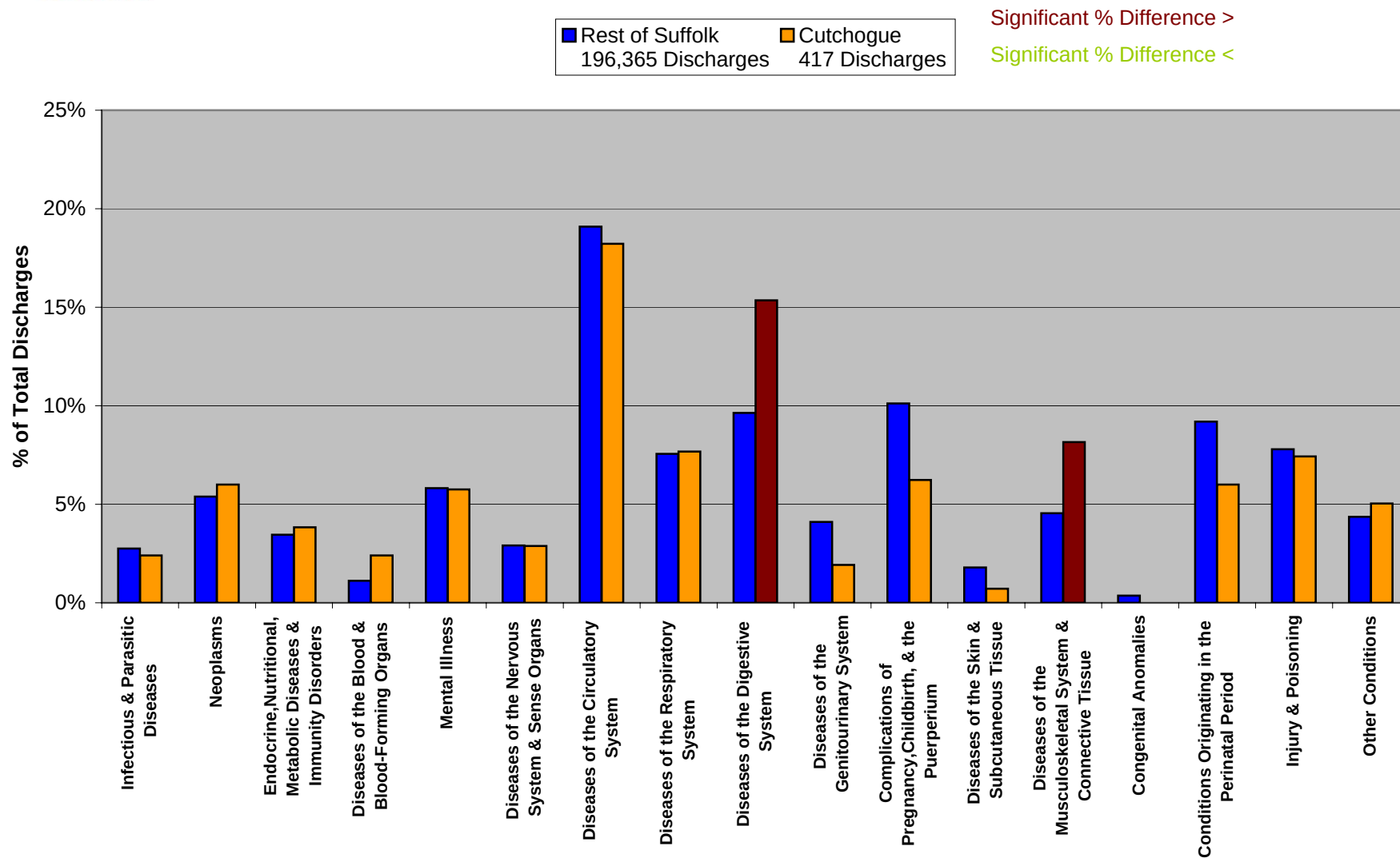
Copaigue Hospital Discharges 2008 by Clustered Diagnoses (CCS)



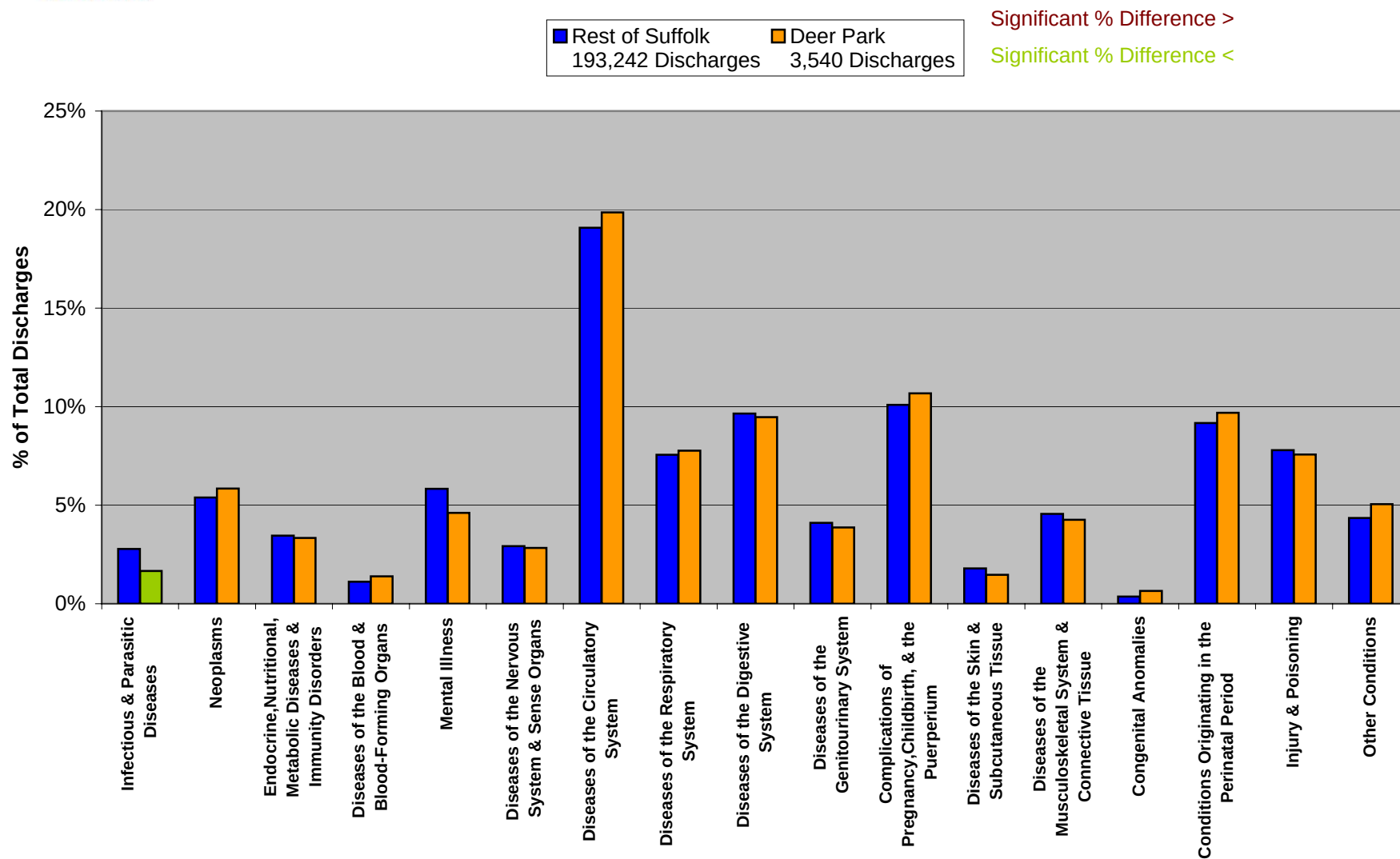
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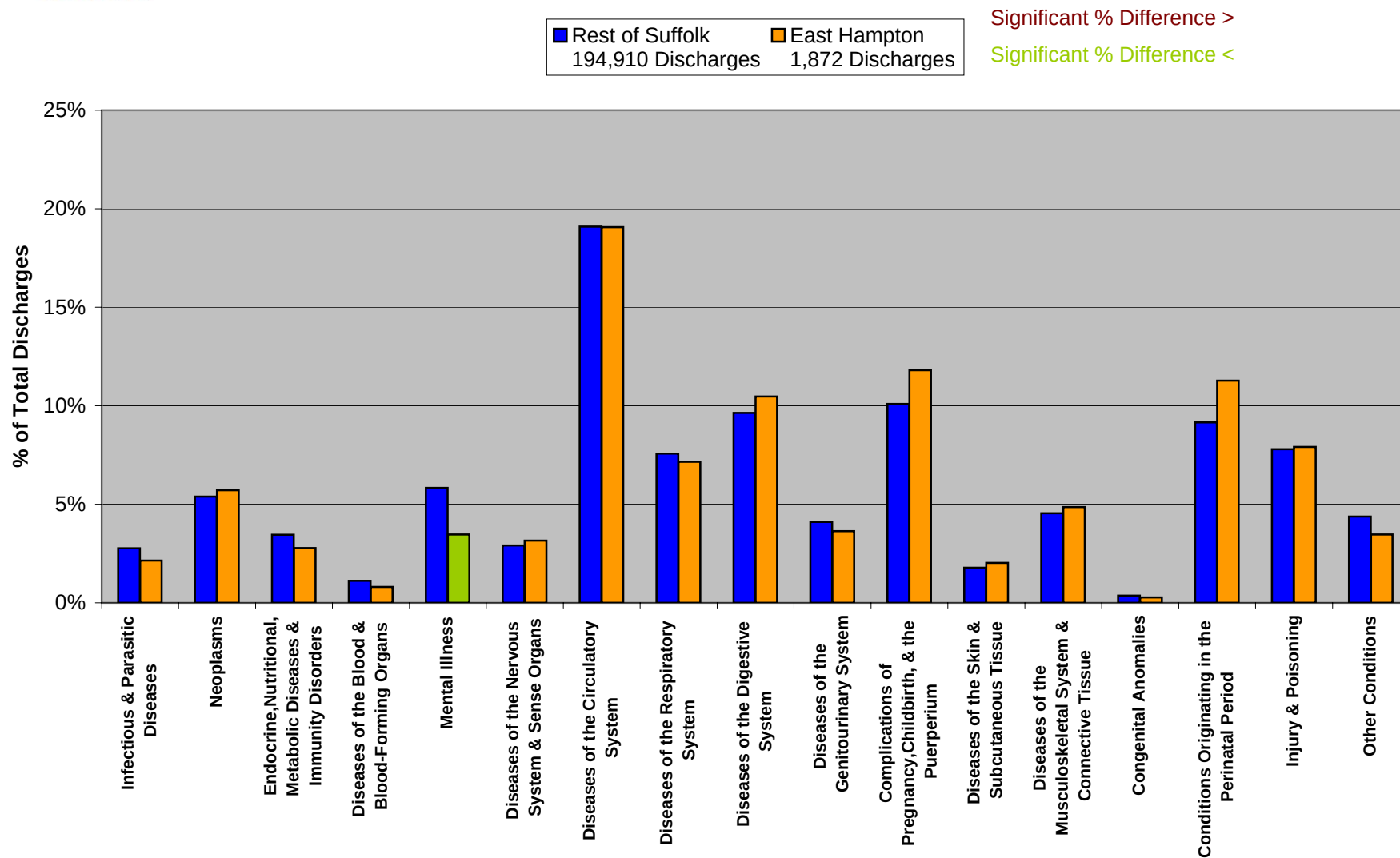
Cutchogue Hospital Discharges 2008 by Clustered Diagnoses (CCS)



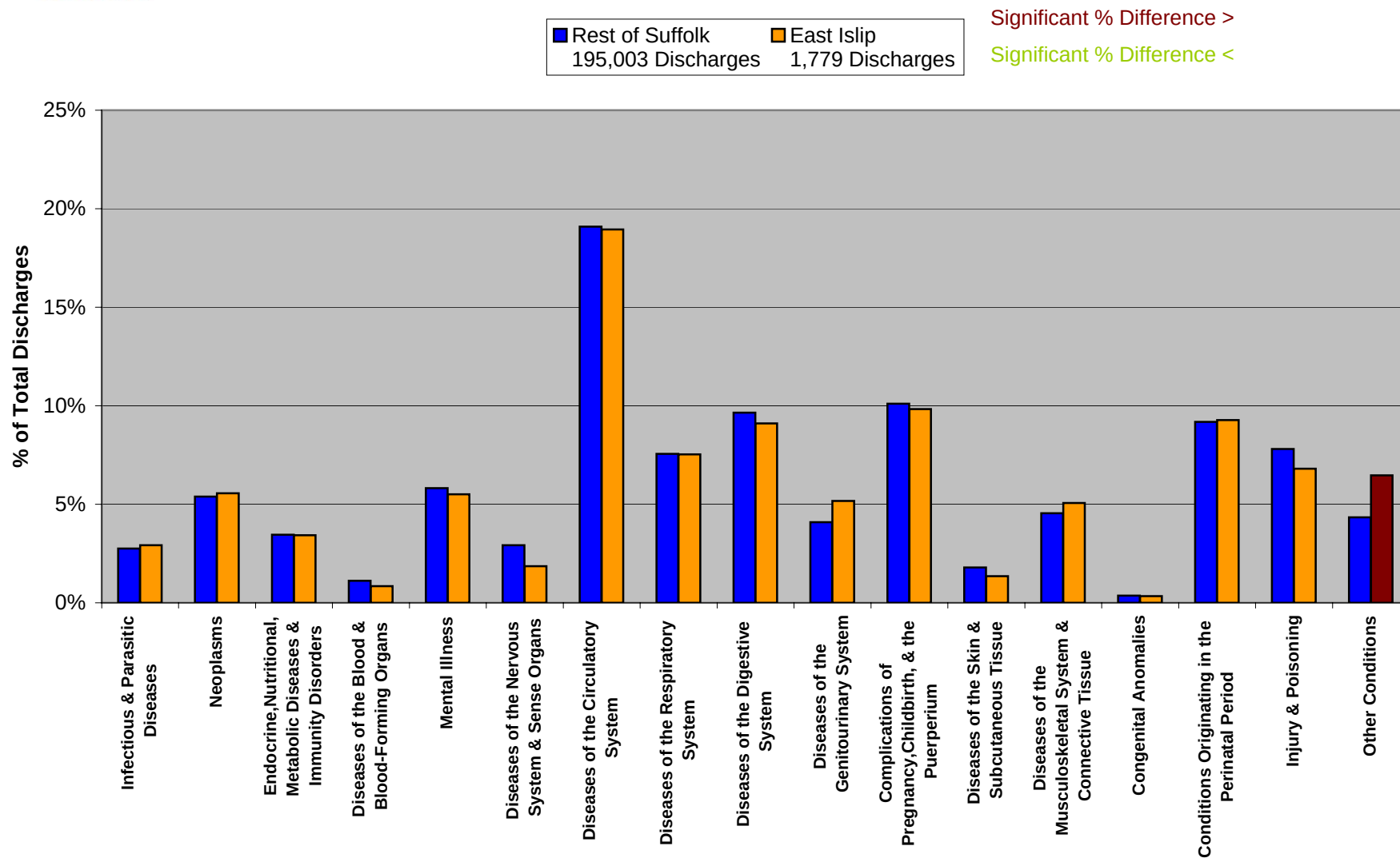
Deer Park Hospital Discharges 2008 by Clustered Diagnoses (CCS)



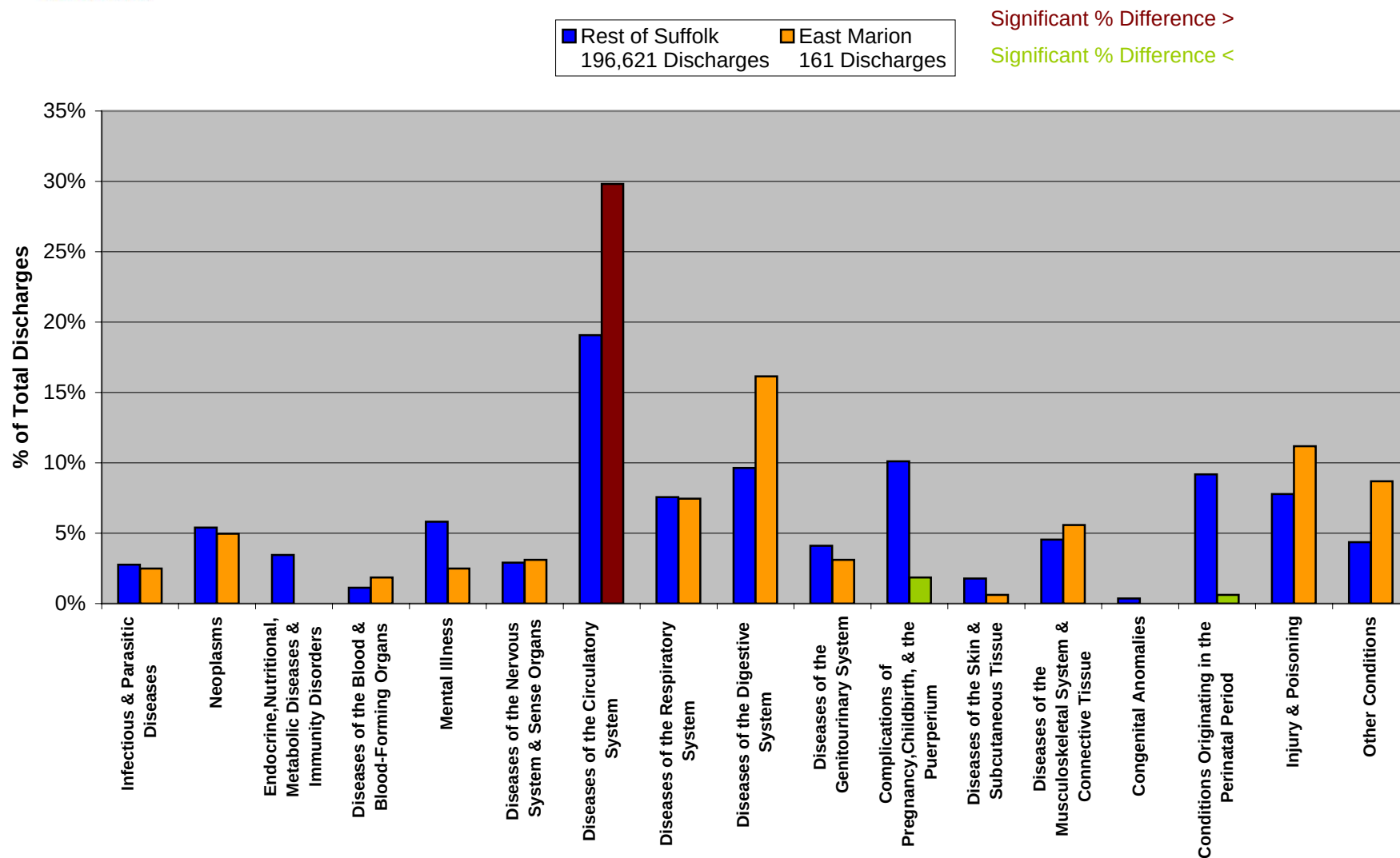
East Hampton Hospital Discharges 2008 by Clustered Diagnoses (CCS)



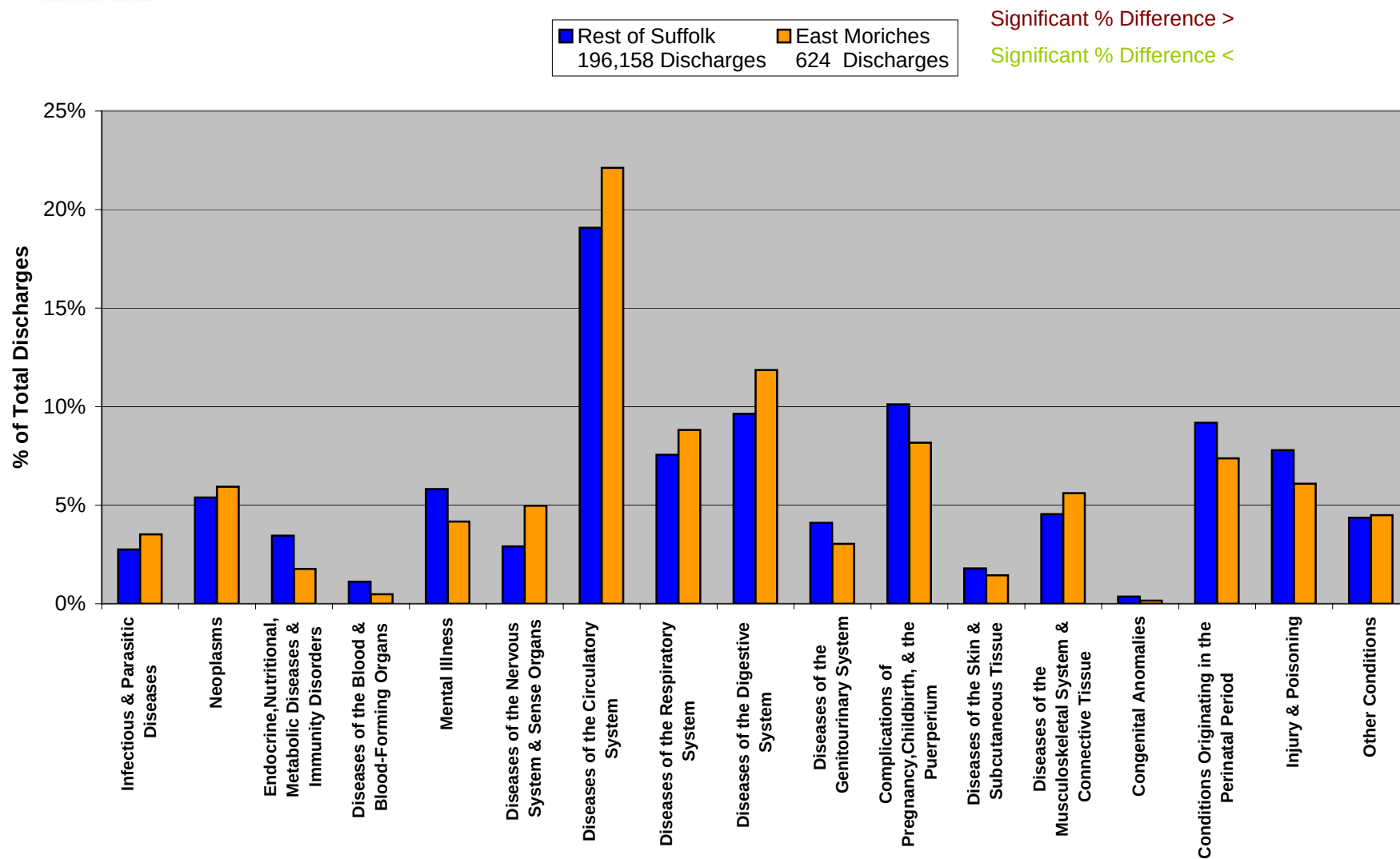
East Islip Hospital Discharges 2008 by Clustered Diagnoses (CCS)



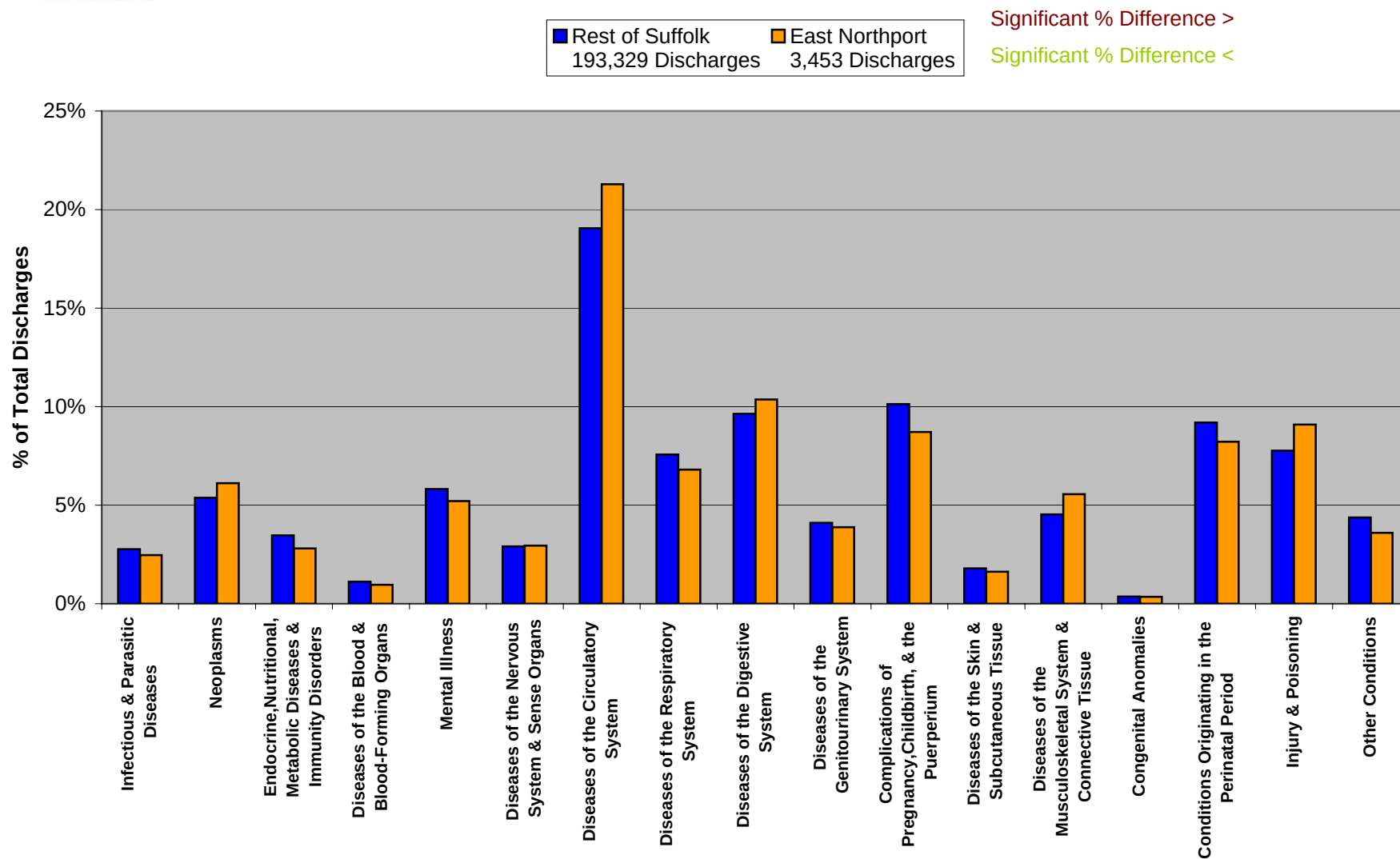
East Marion Hospital Discharges 2008 by Clustered Diagnoses (CCS)



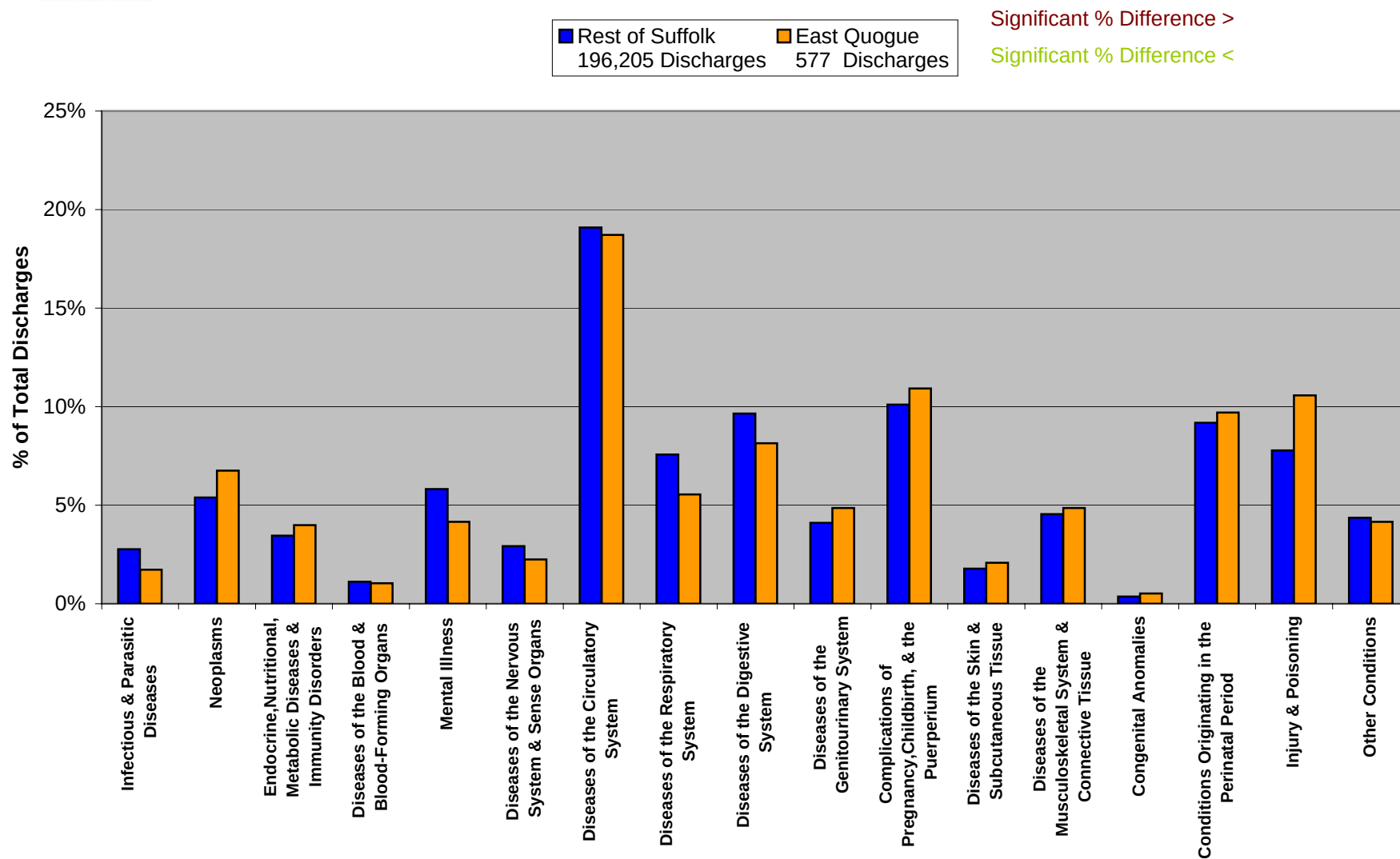
East Moriches Hospital Discharges 2008 by Clustered Diagnoses (CCS)



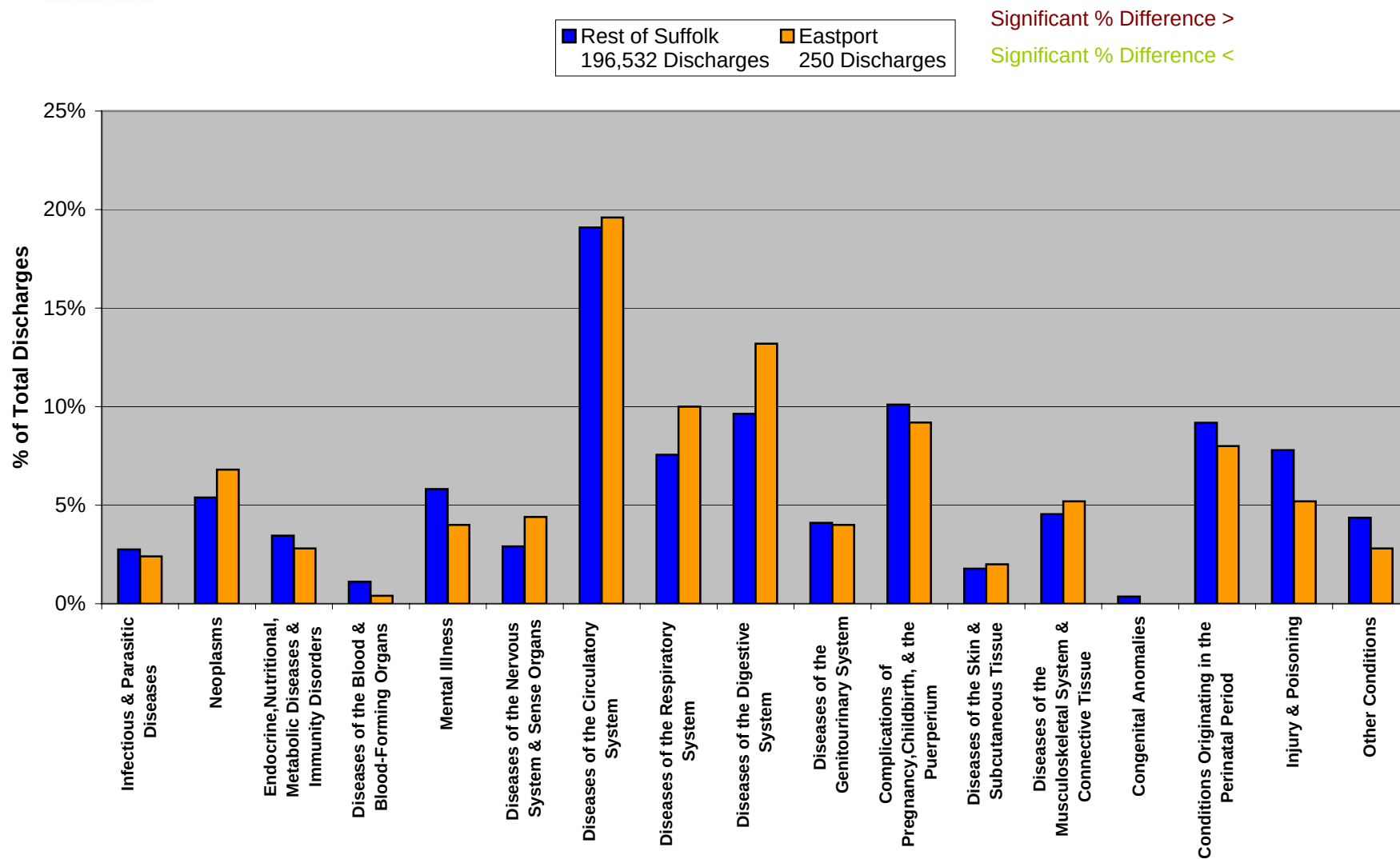
East Northport Hospital Discharges 2008 by Clustered Diagnoses (CCS)



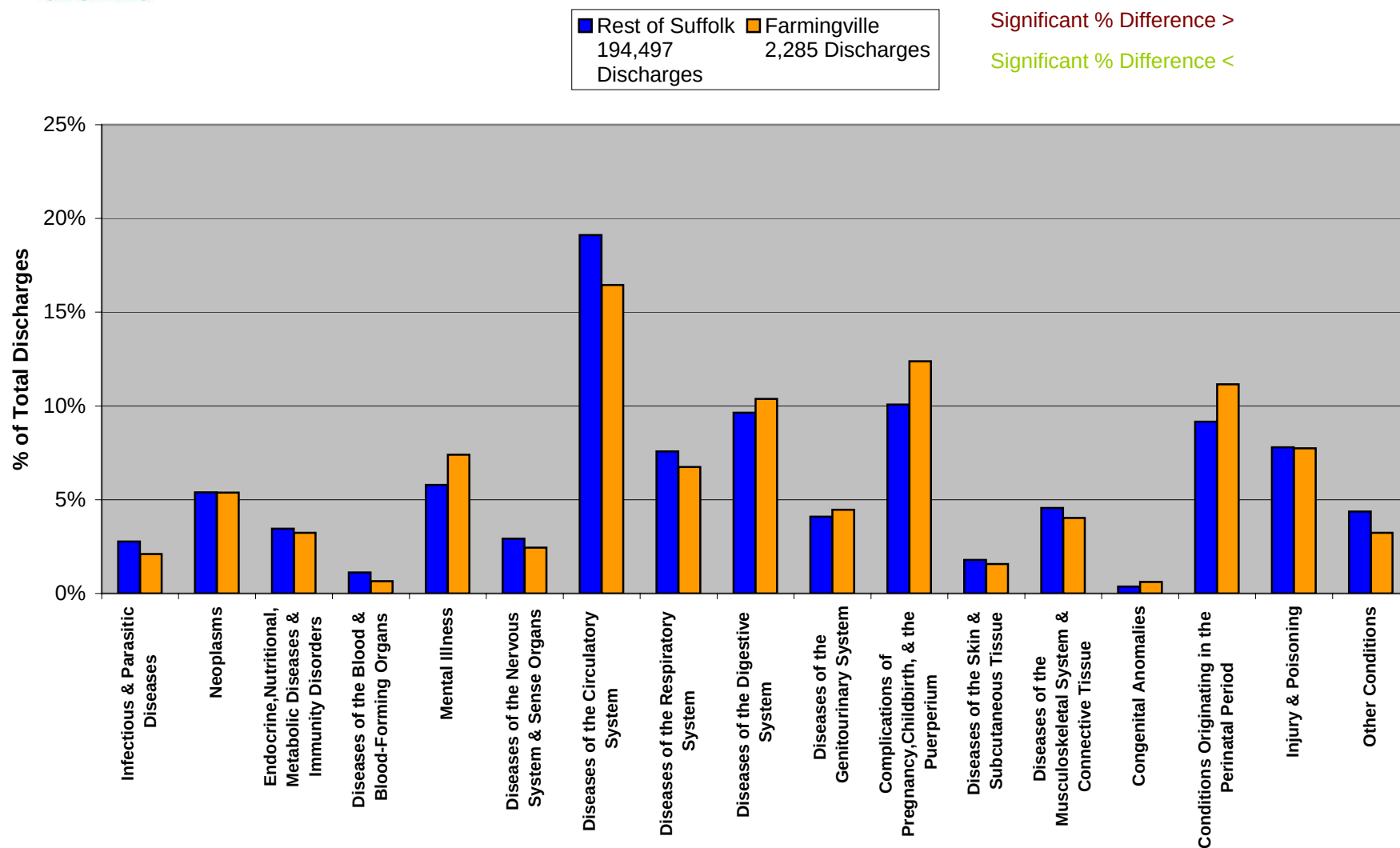
East Quogue Hospital Discharges 2008 by Clustered Diagnoses (CCS)



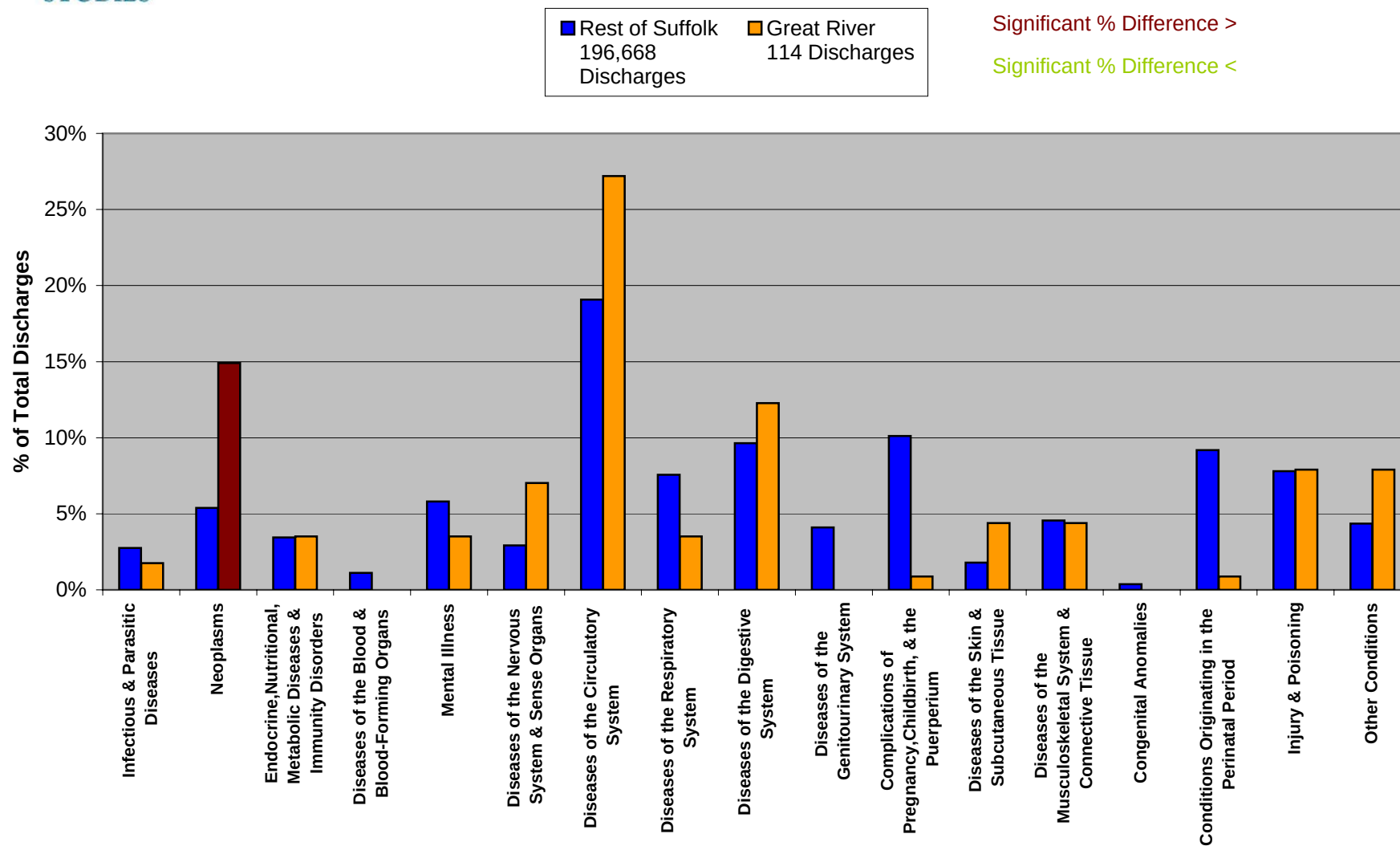
Eastport Hospital Discharges 2008 by Clustered Diagnoses (CCS)



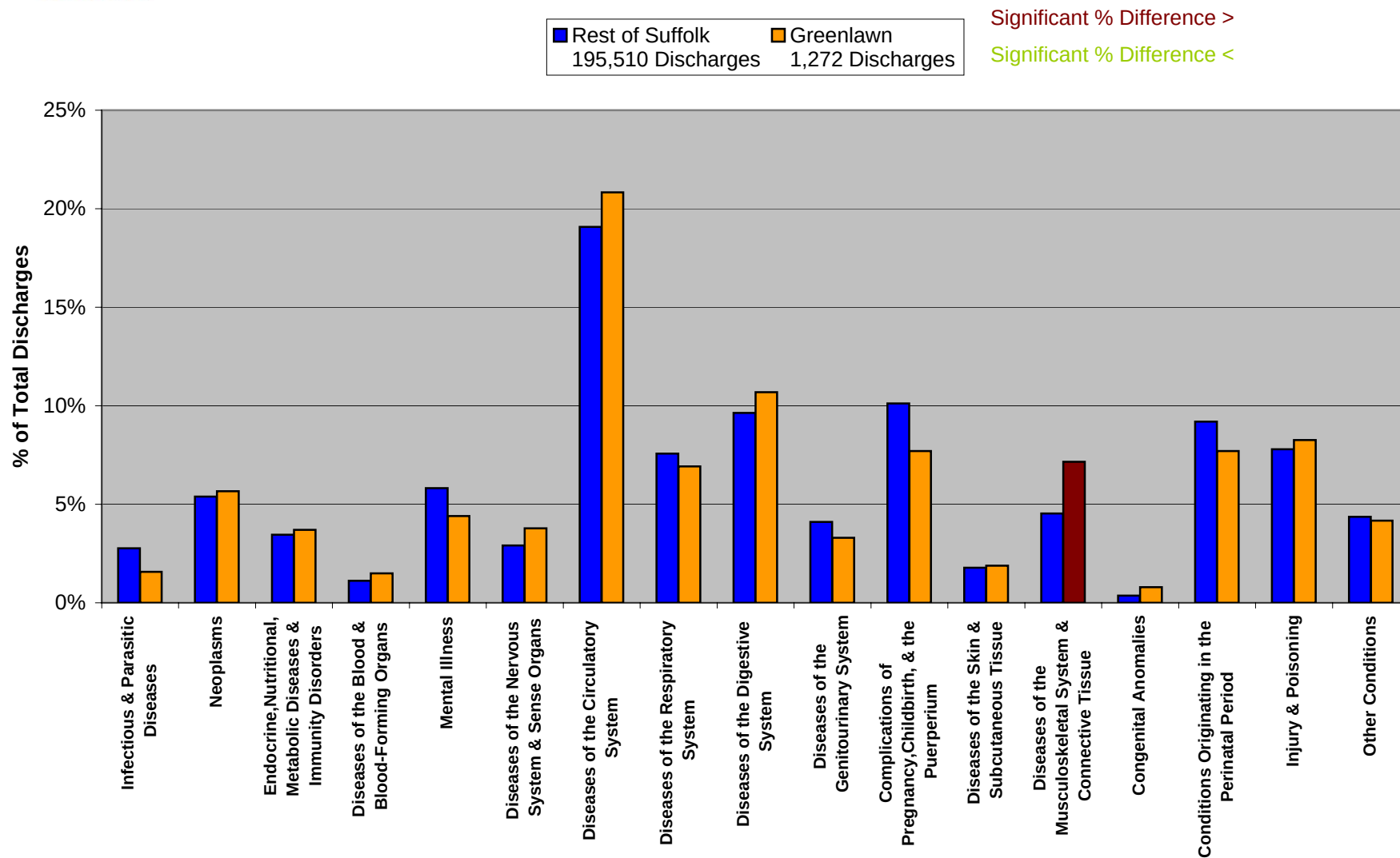
Farmingville Hospital Discharges 2008 by Clustered Diagnoses (CCS)



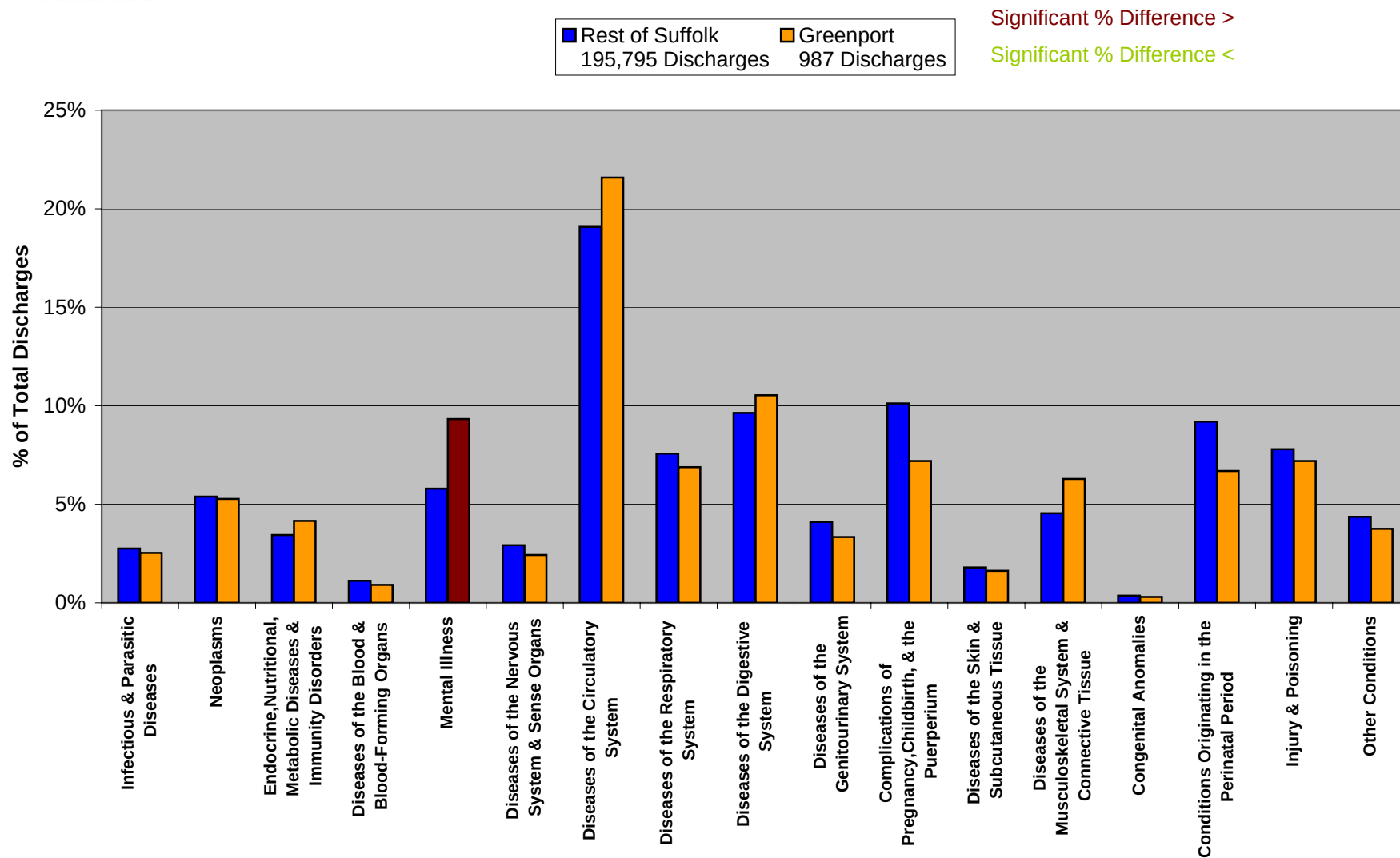
Great River Hospital Discharges 2008 by Clustered Diagnoses (CCS)



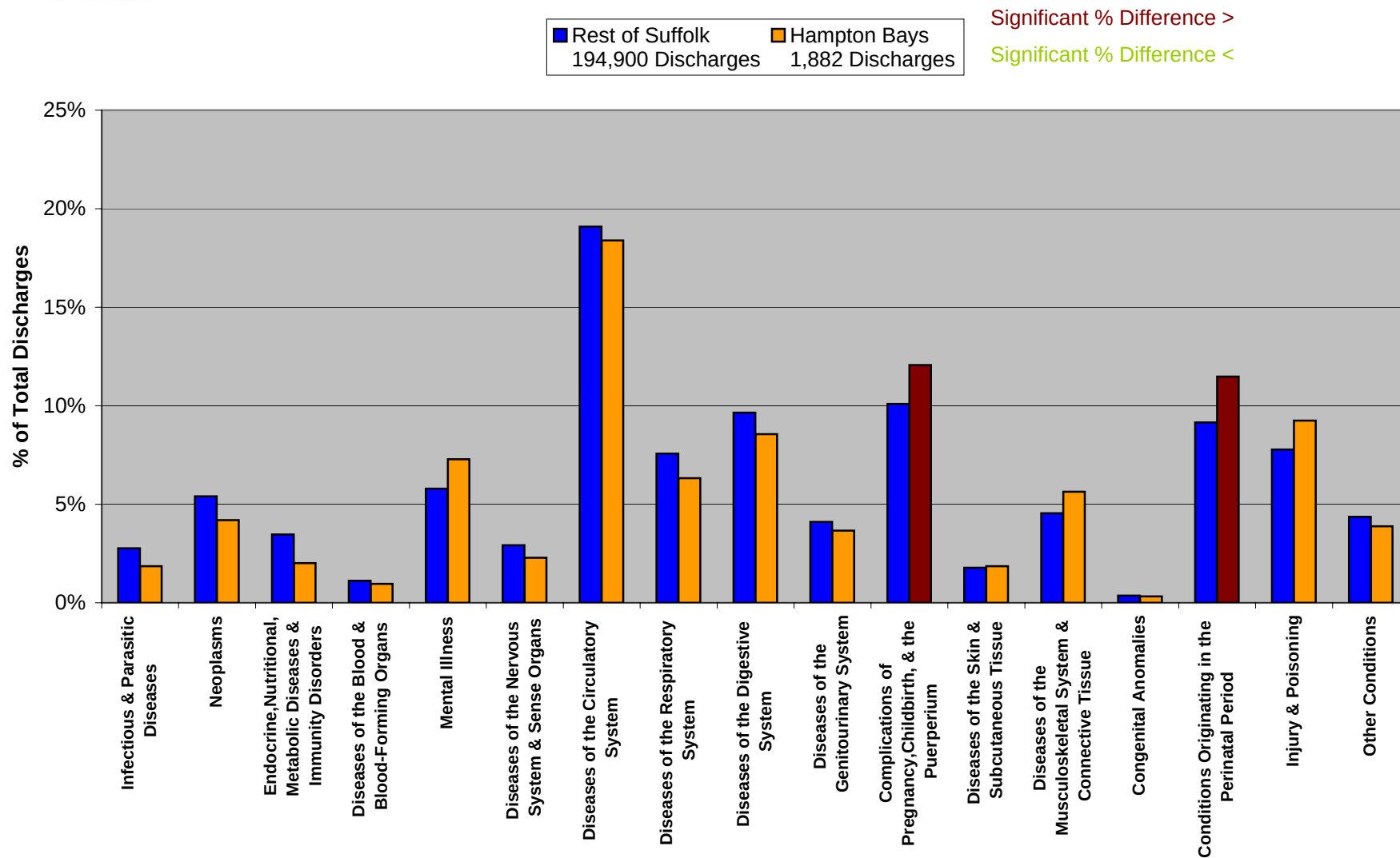
Greenlawn Hospital Discharges 2008 by Clustered Diagnoses (CCS)



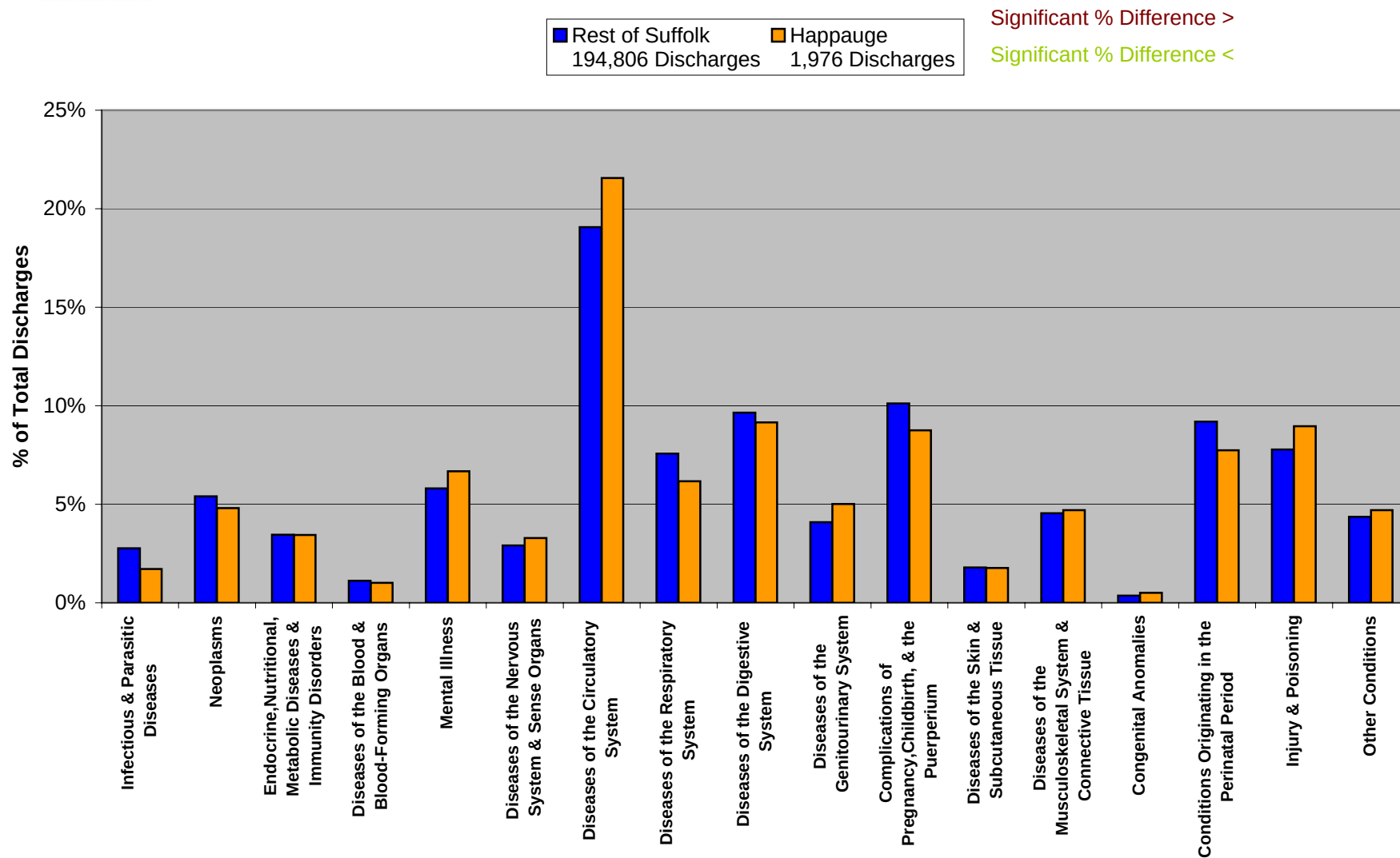
Greenport Hospital Discharges 2008 by Clustered Diagnoses (CCS)



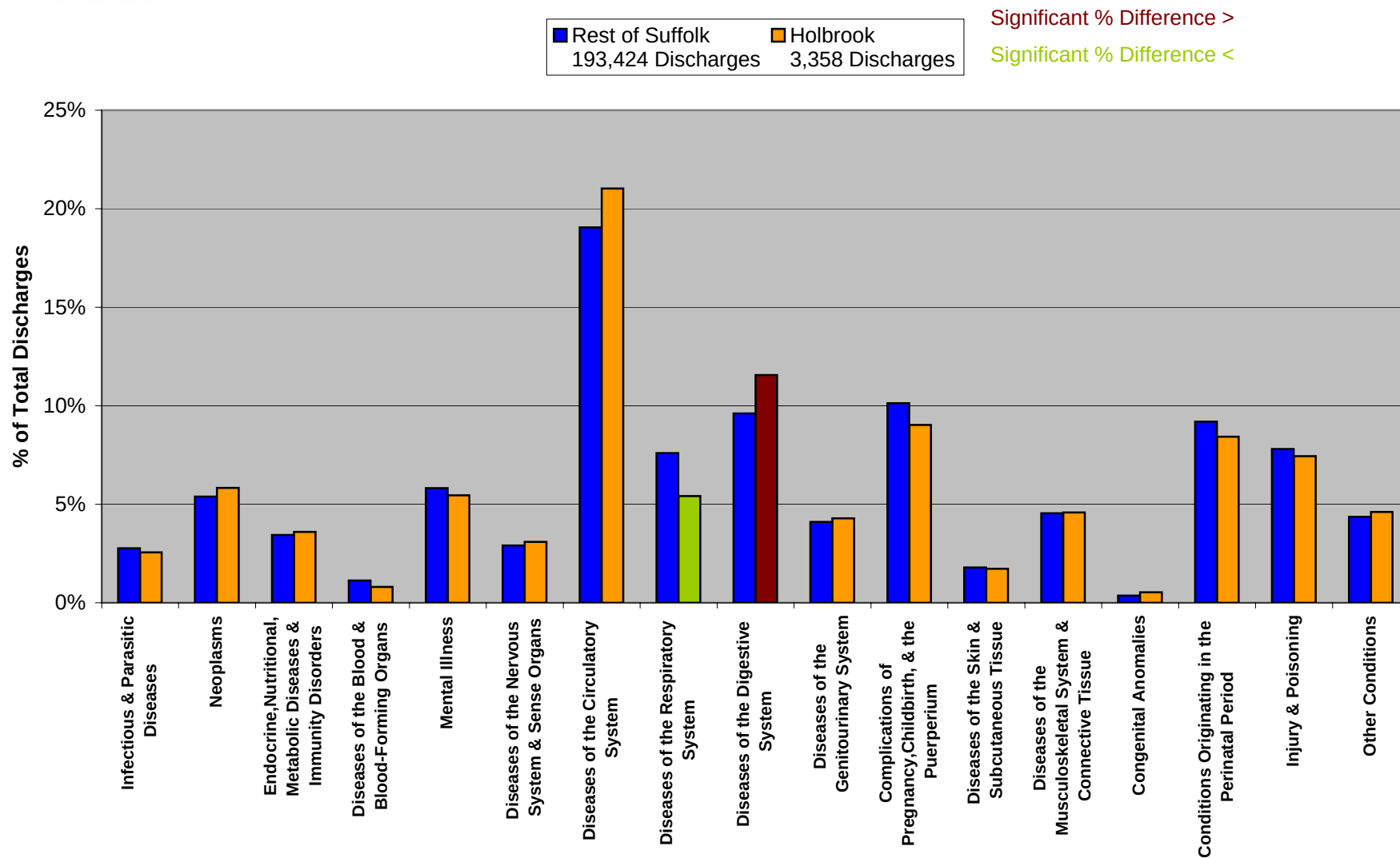
Hampton Bays Hospital Discharges 2008 by Clustered Diagnoses (CCS)



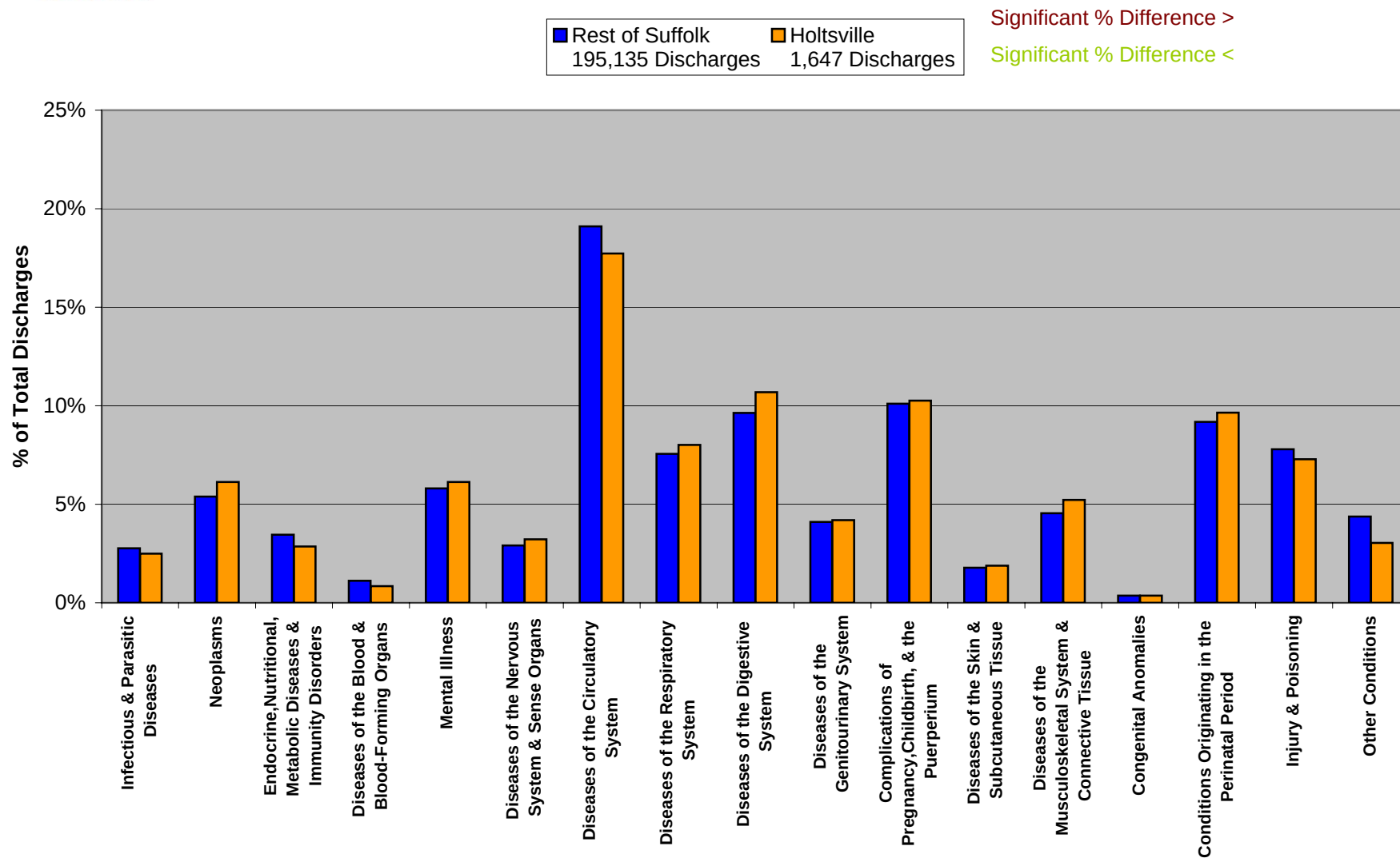
Happauge Hospital Discharges 2008 by Clustered Diagnoses (CCS)



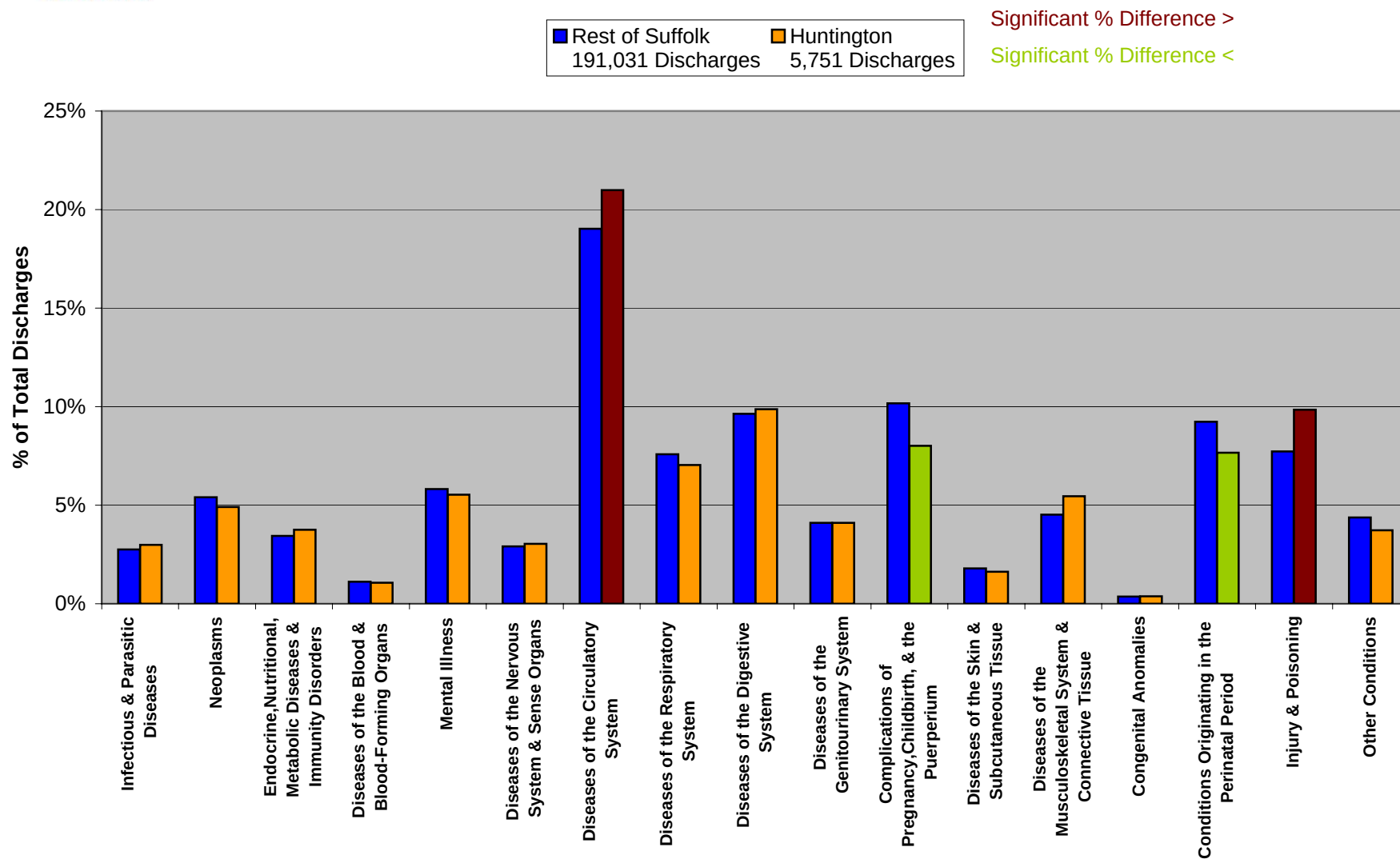
Holbrook Hospital Discharges 2008 by Clustered Diagnoses (CCS)



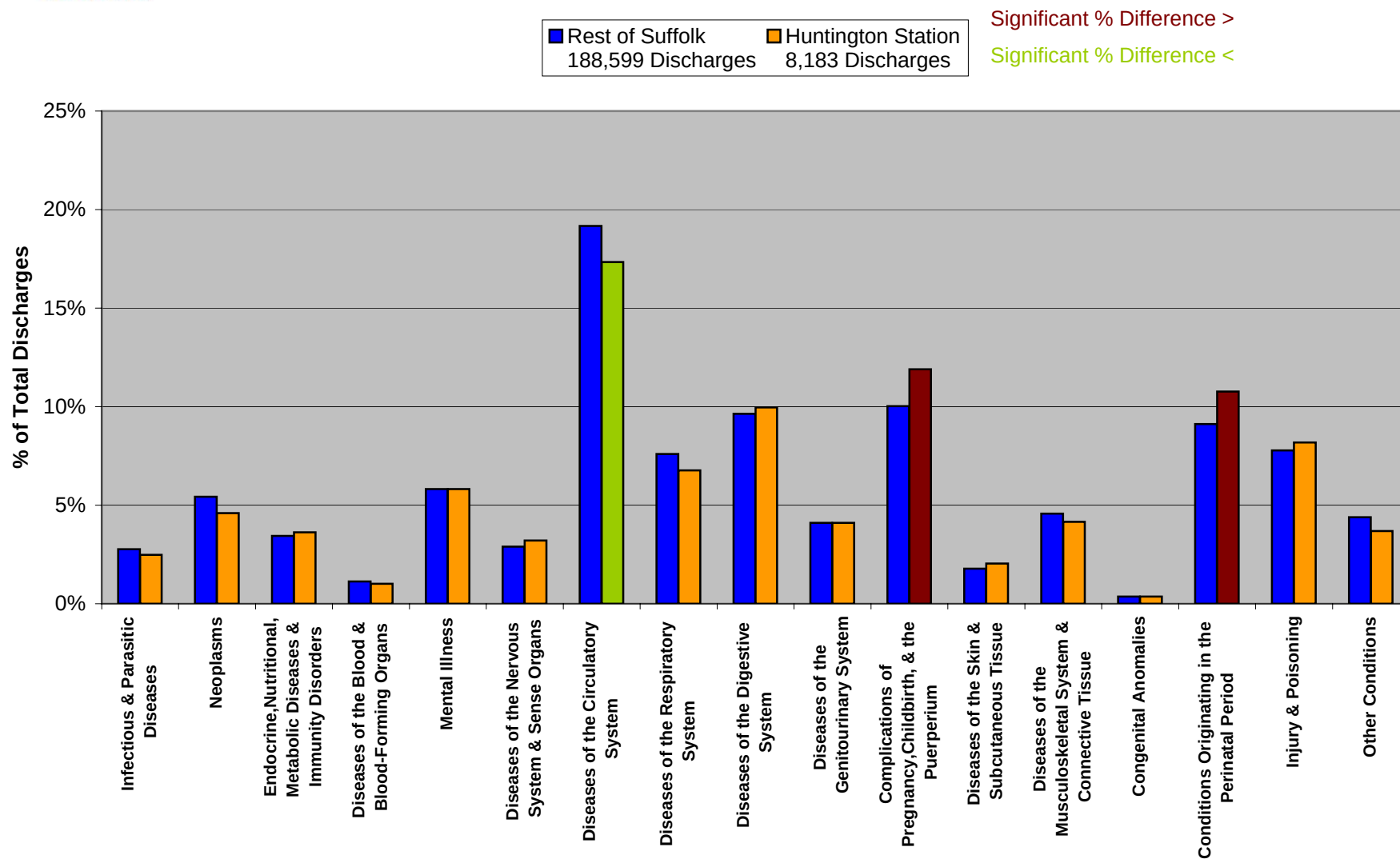
Holtsville Hospital Discharges 2008 by Clustered Diagnoses (CCS)



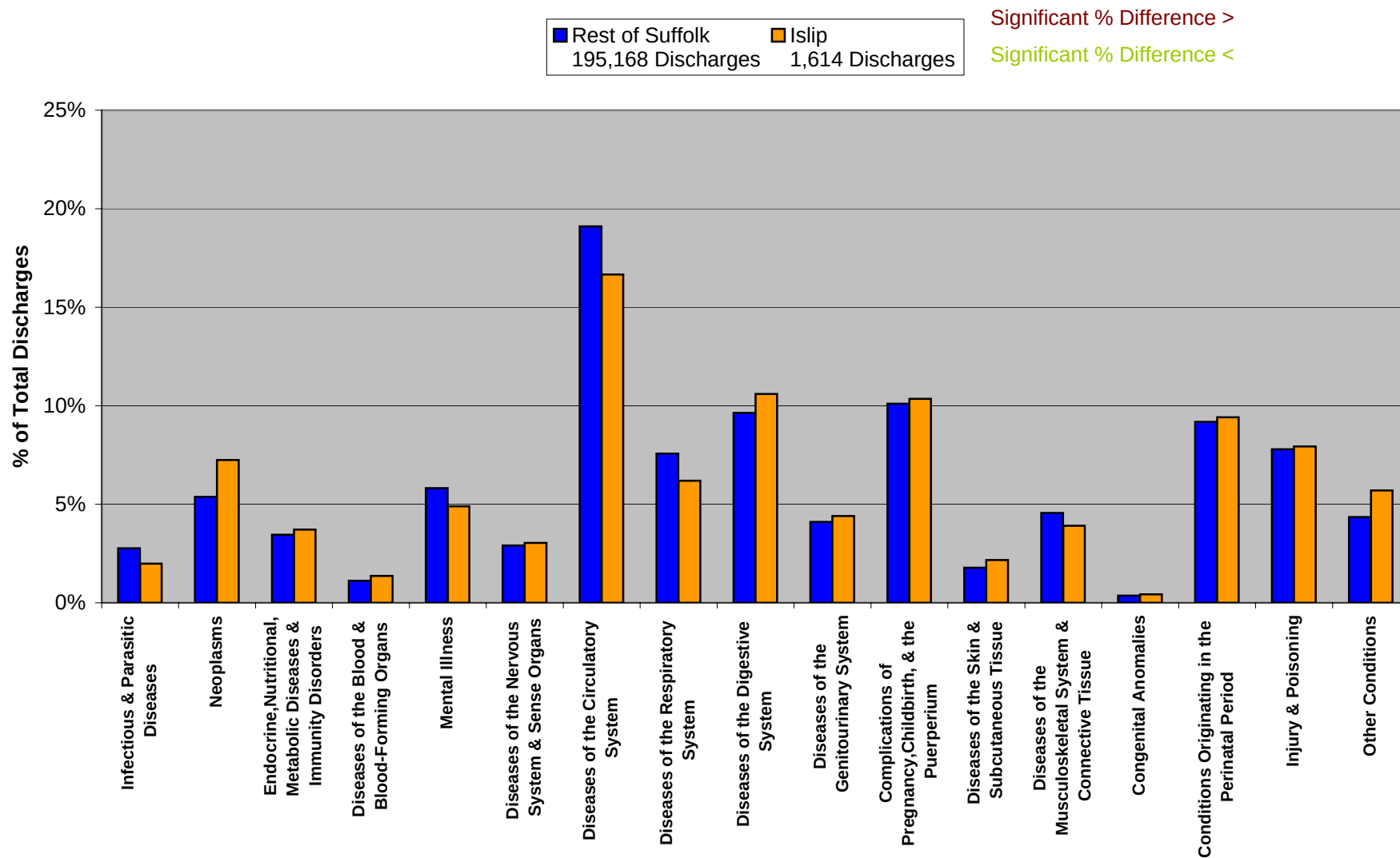
Huntington Hospital Discharges 2008 by Clustered Diagnoses (CCS)



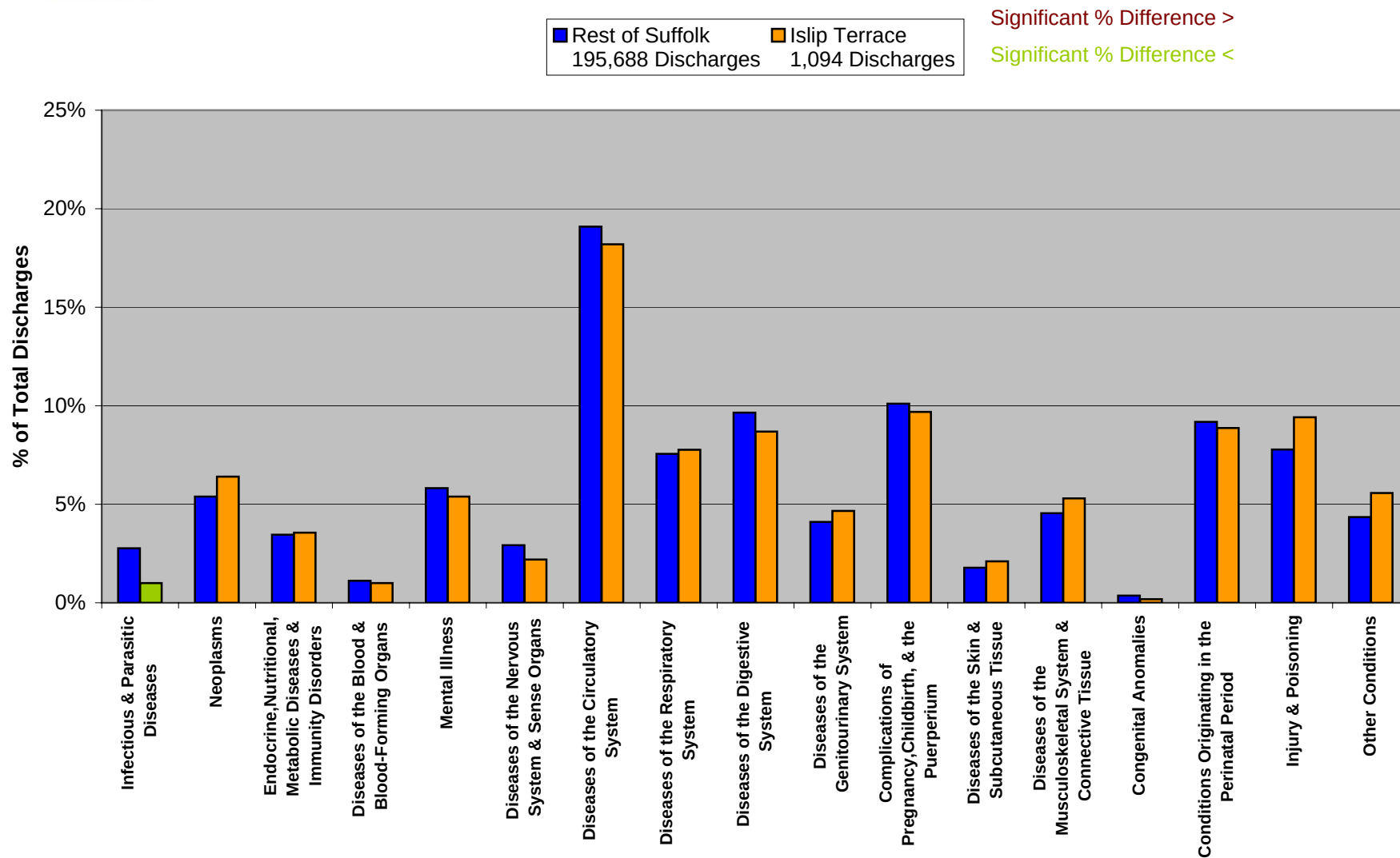
Huntington Station Hospital Discharges 2008 by Clustered Diagnoses (CCS)



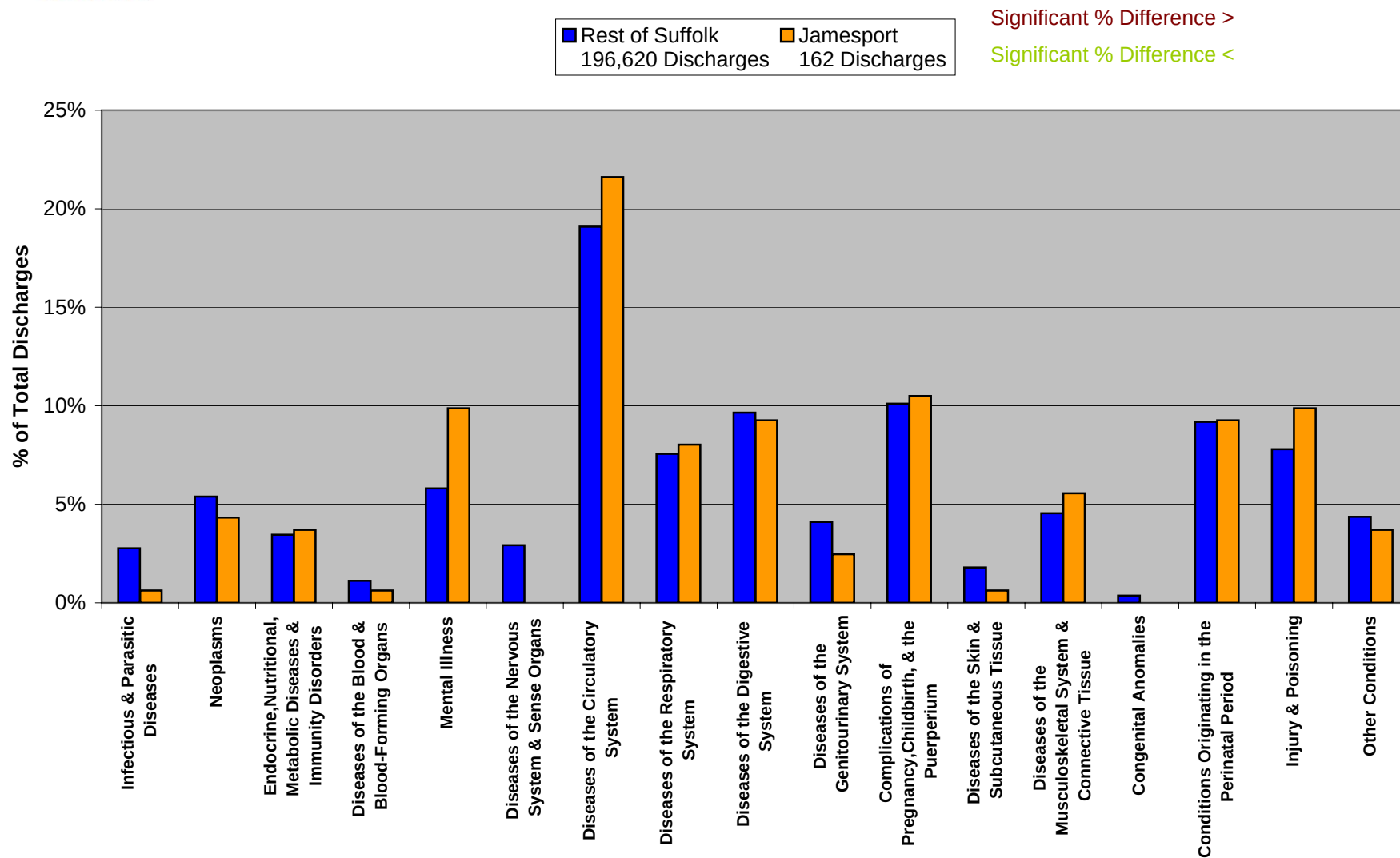
Islip Hospital Discharges 2008 by Clustered Diagnoses (CCS)



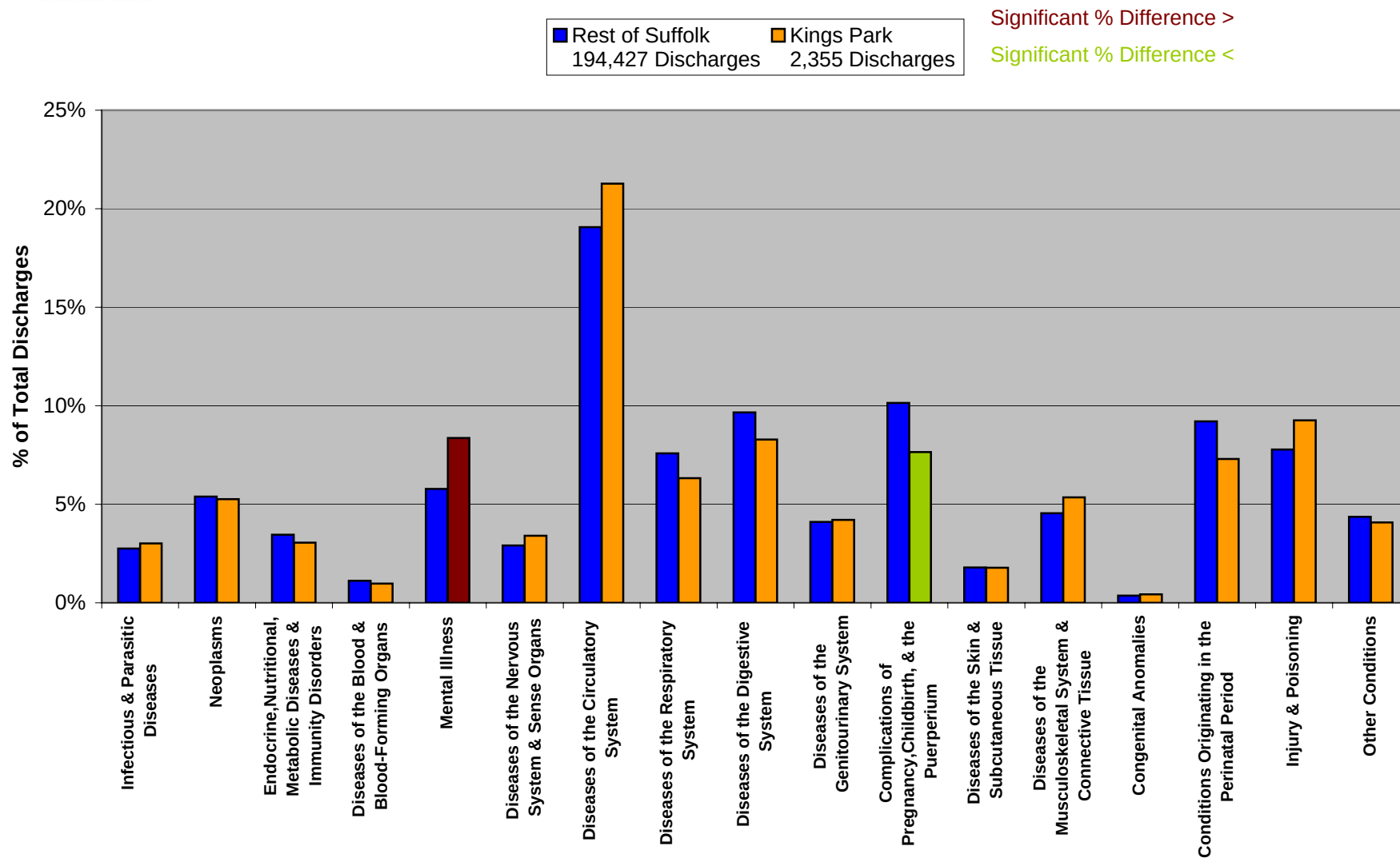
Islip Terrace Hospital Discharges 2008 by Clustered Diagnoses (CCS)



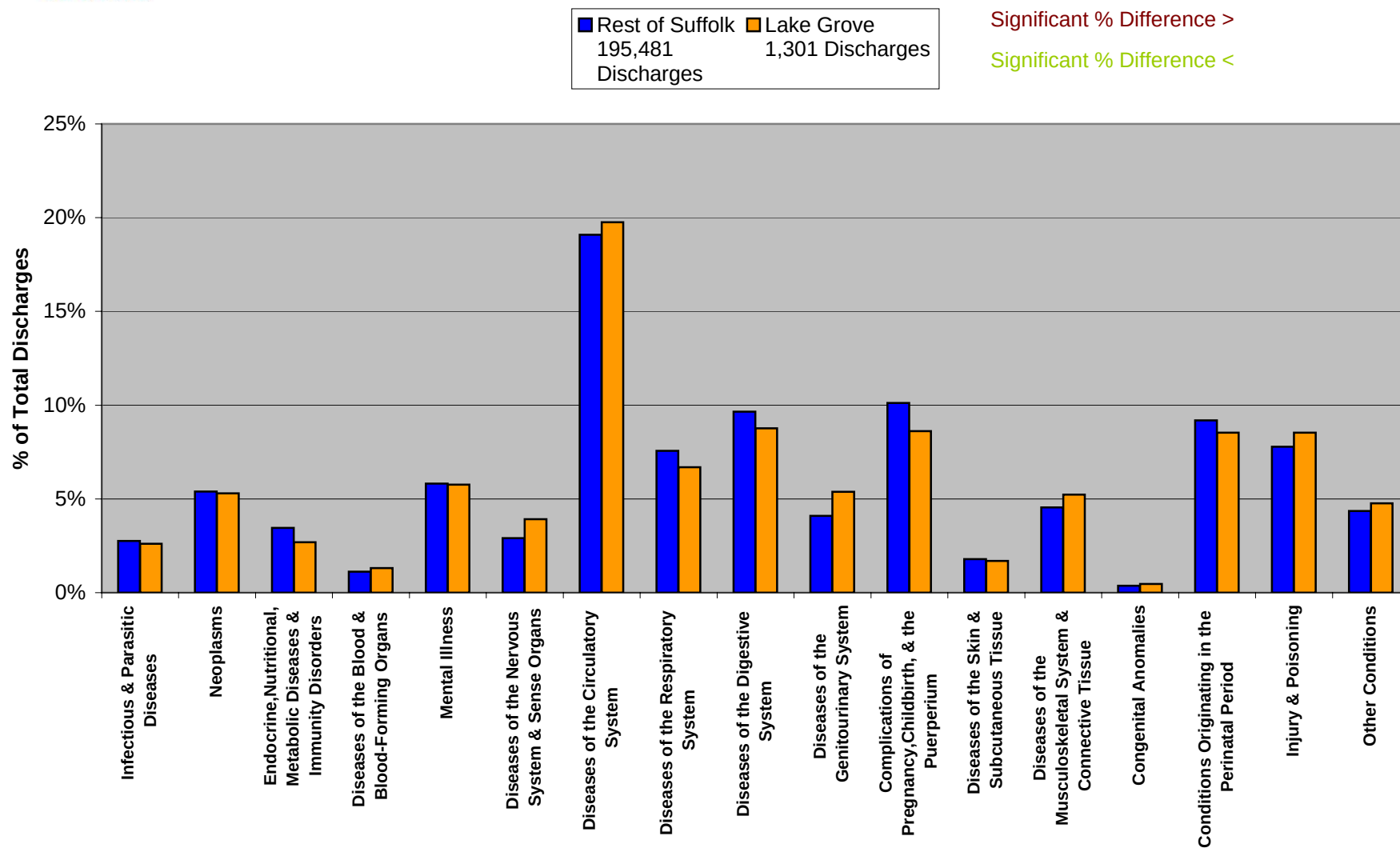
Jamesport Hospital Discharges 2008 by Clustered Diagnoses (CCS)



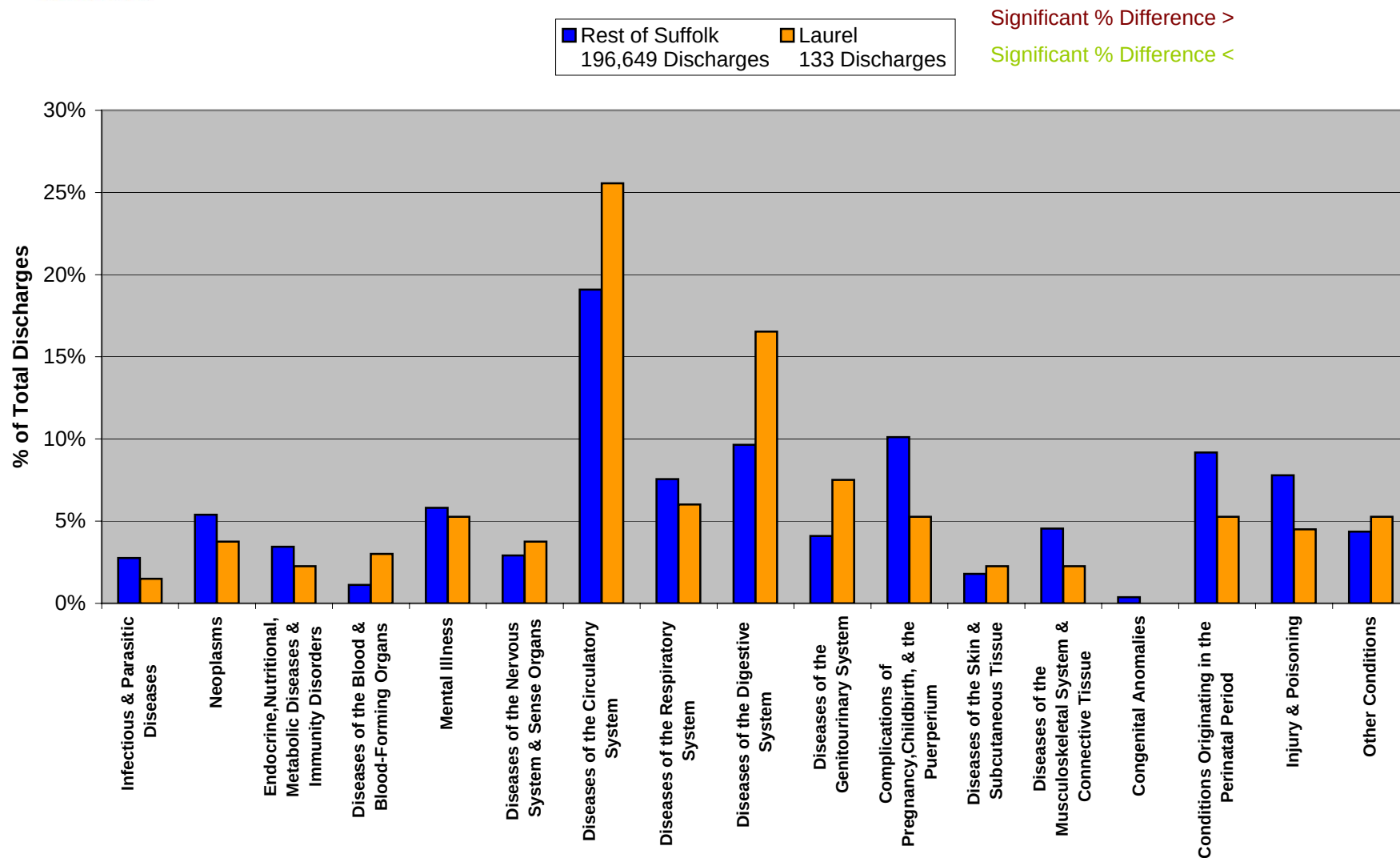
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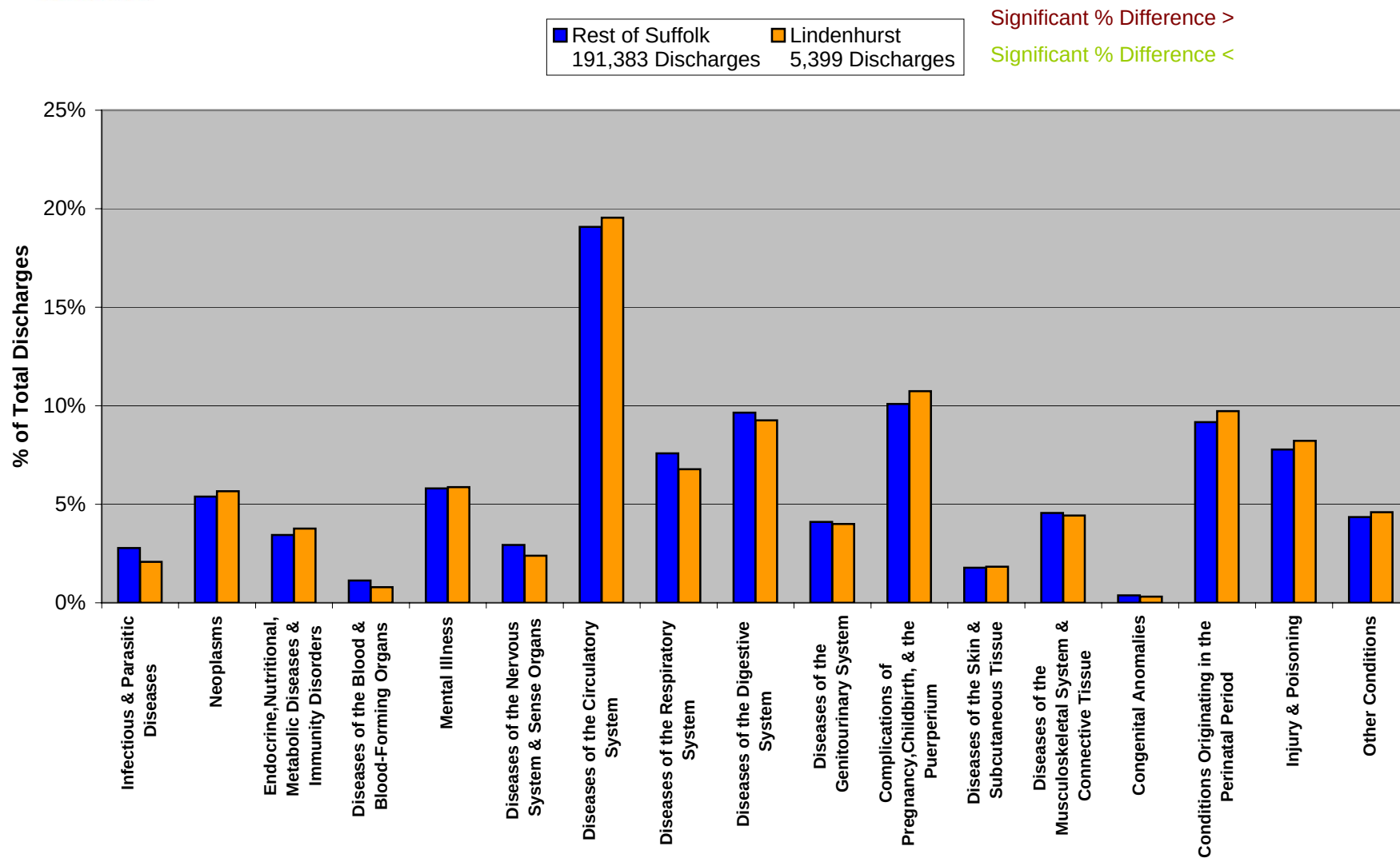
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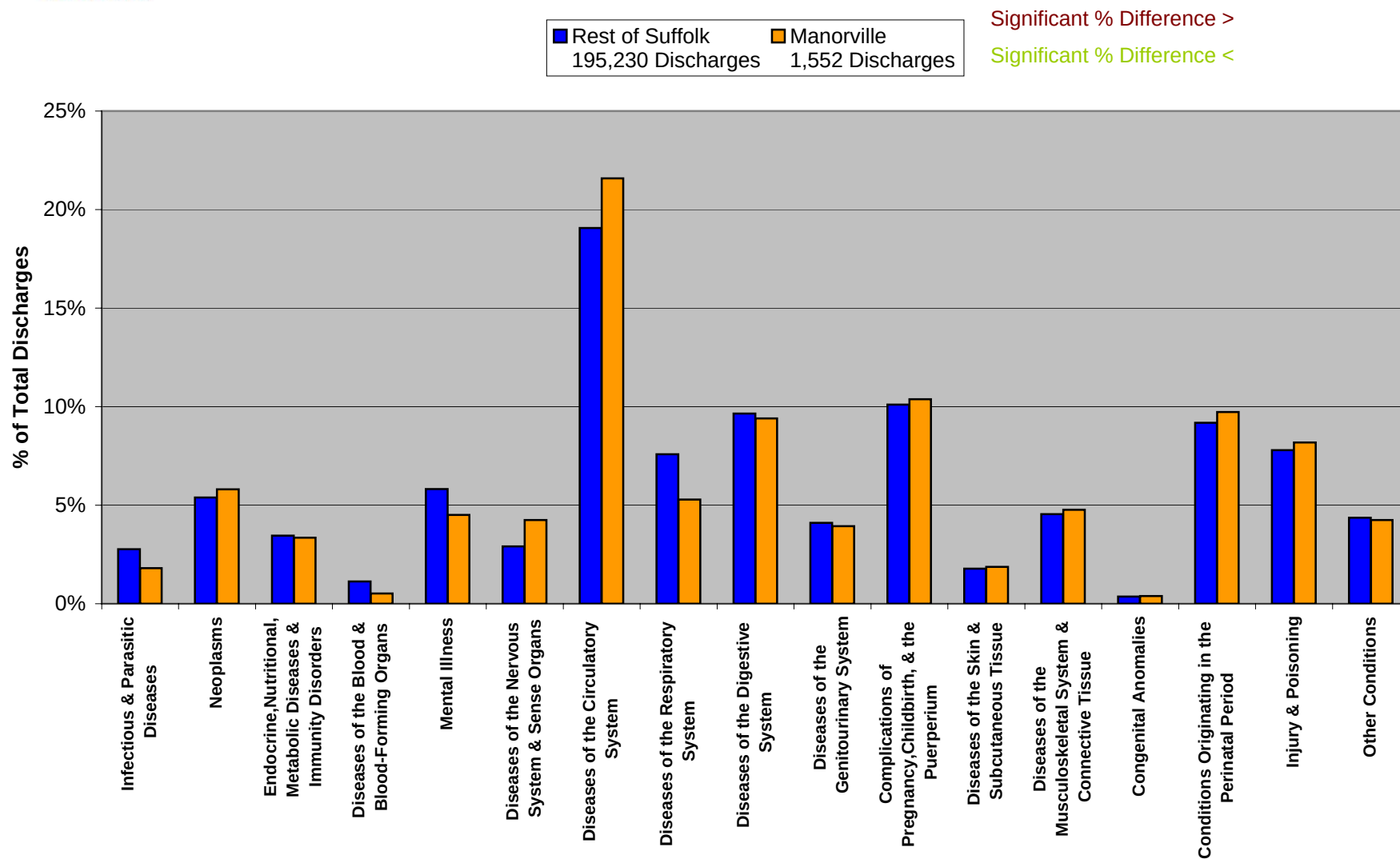
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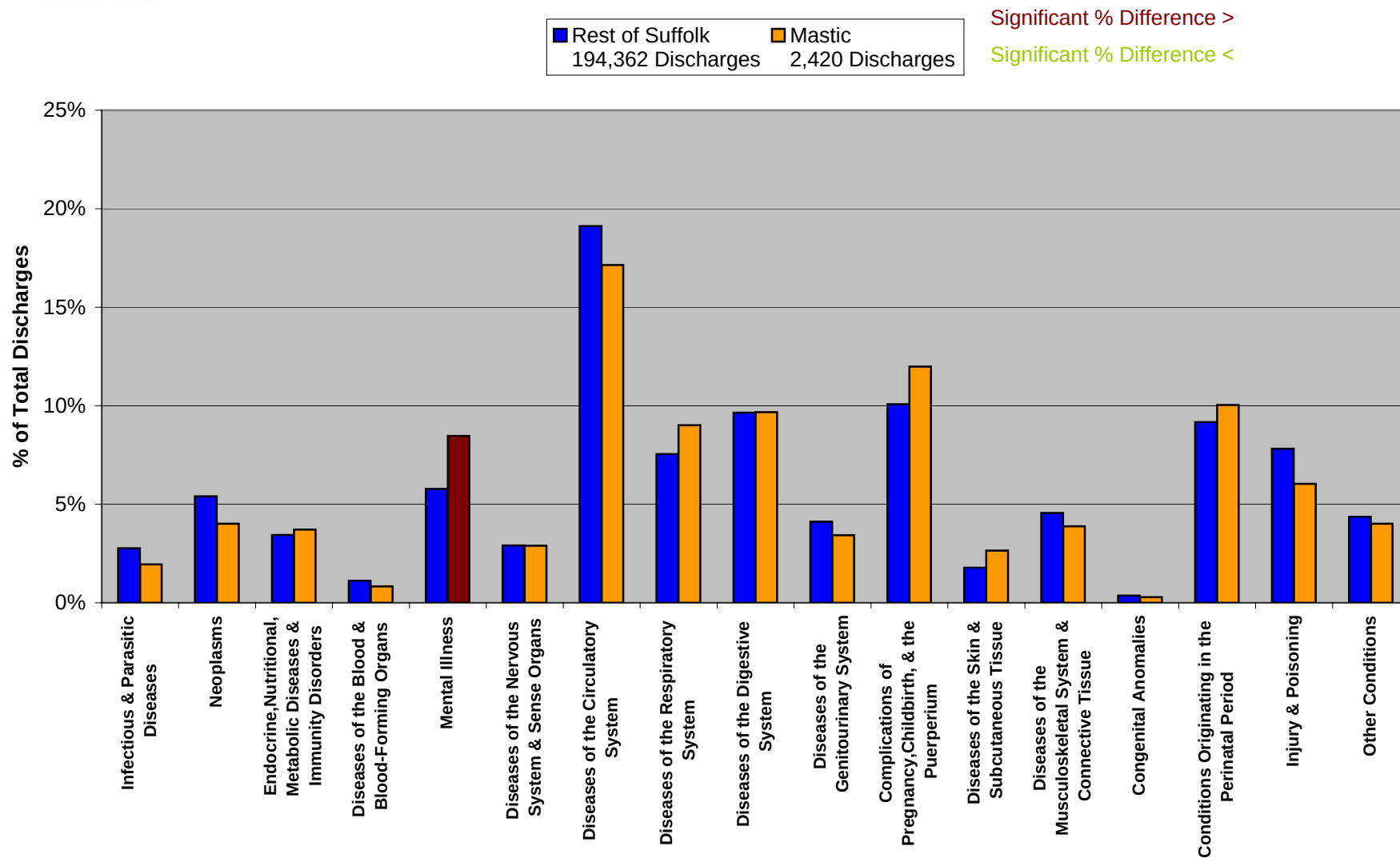
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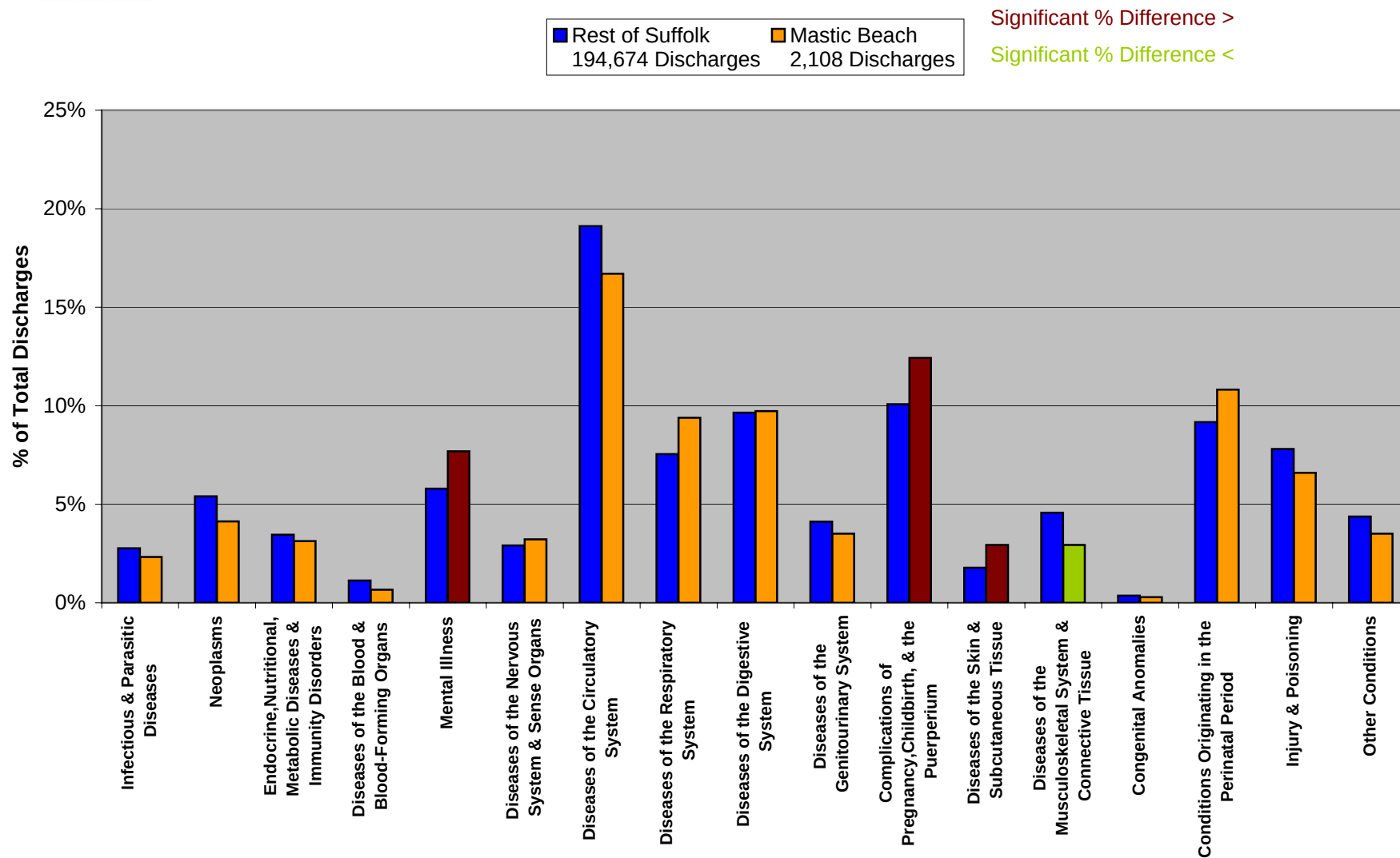
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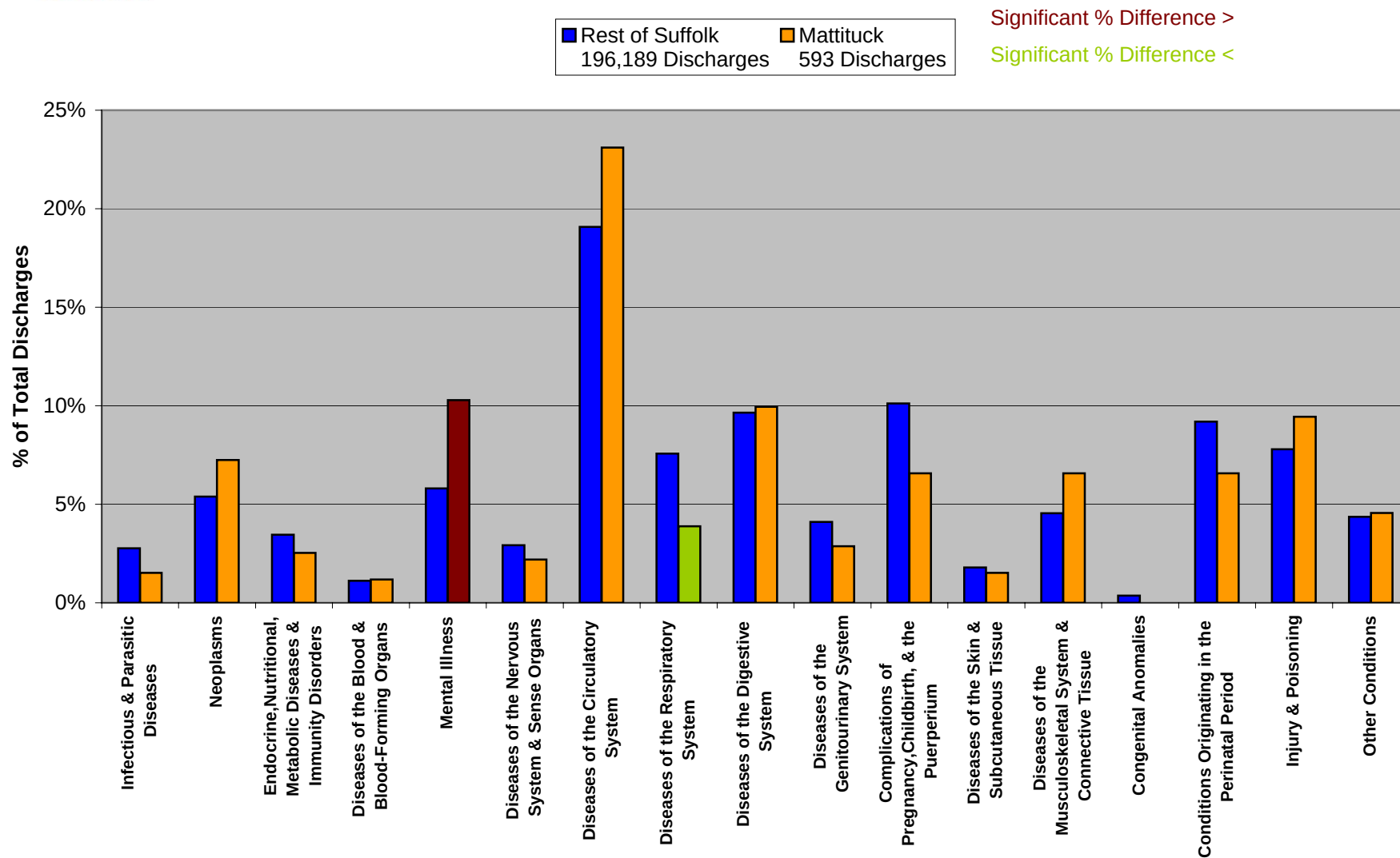
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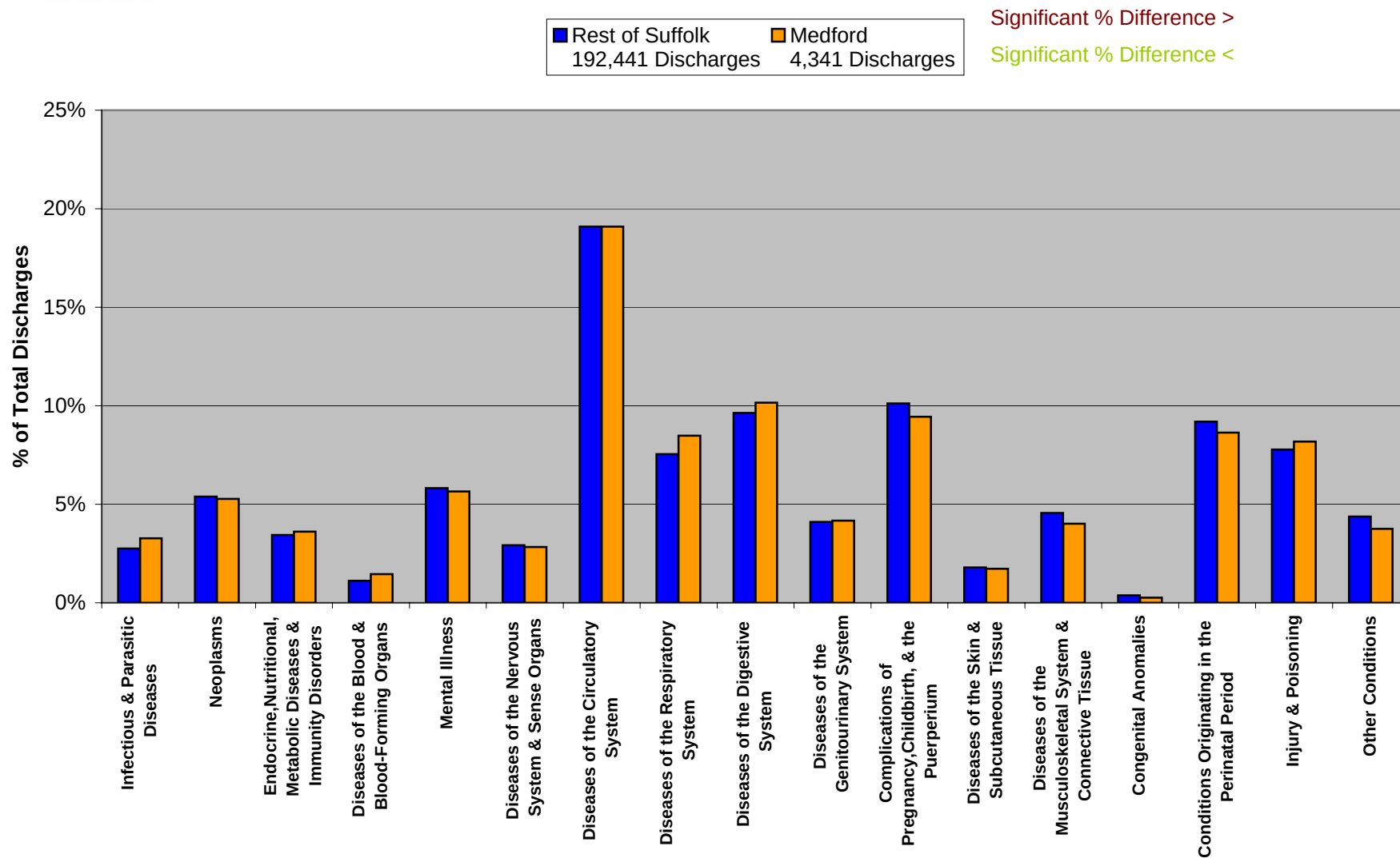
Mastic Beach Hospital Discharges 2008 by Clustered Diagnoses (CCS)



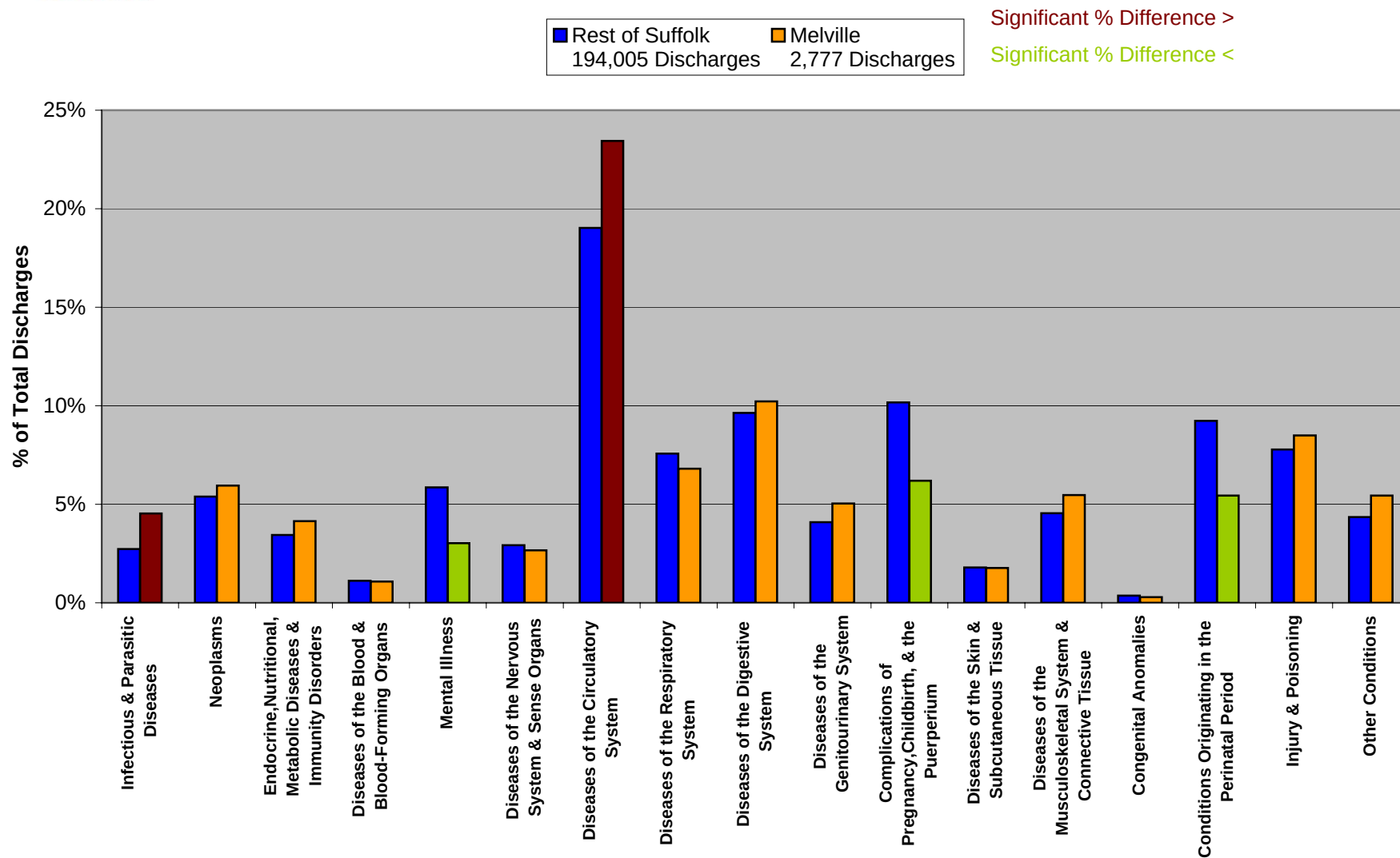
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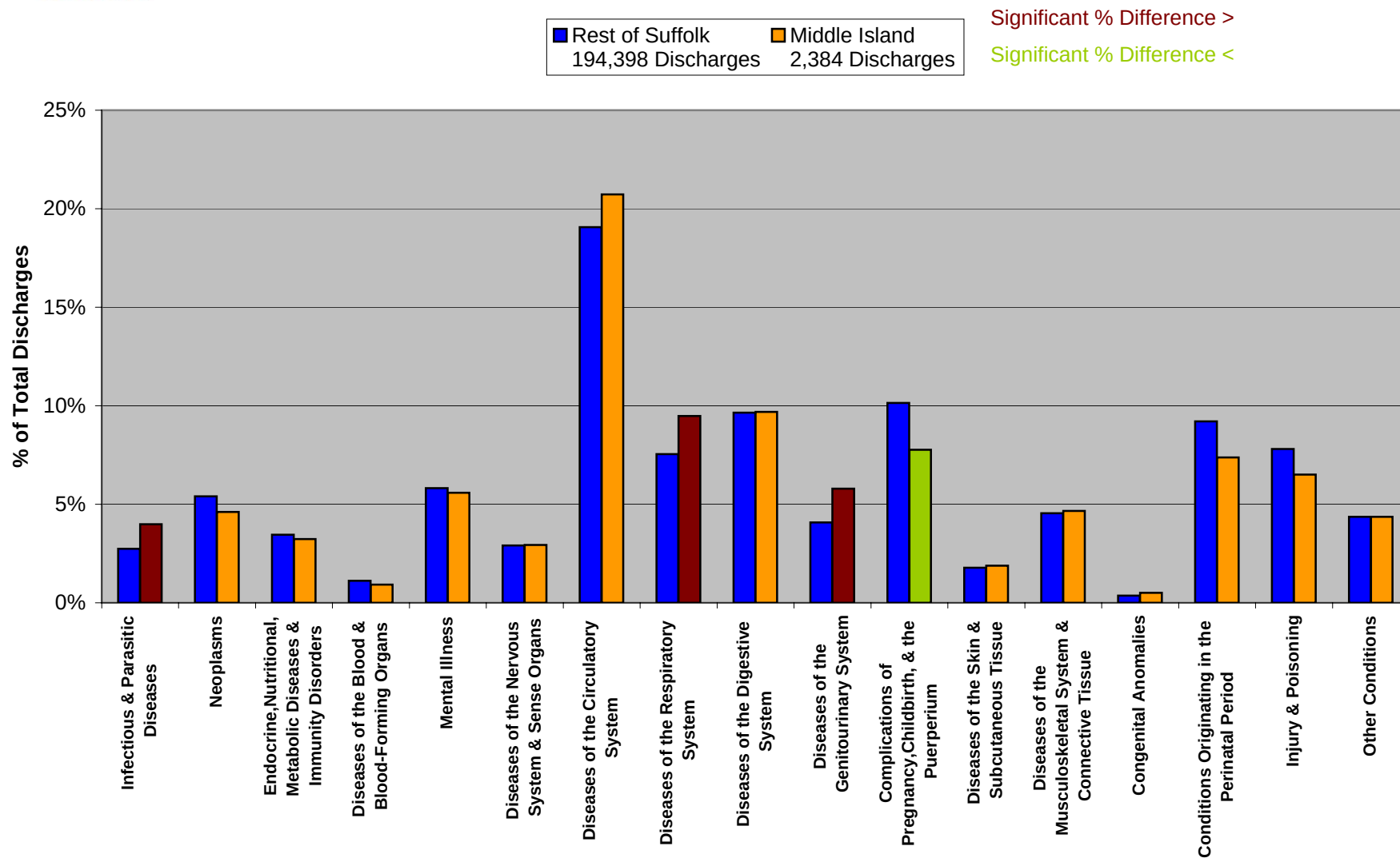
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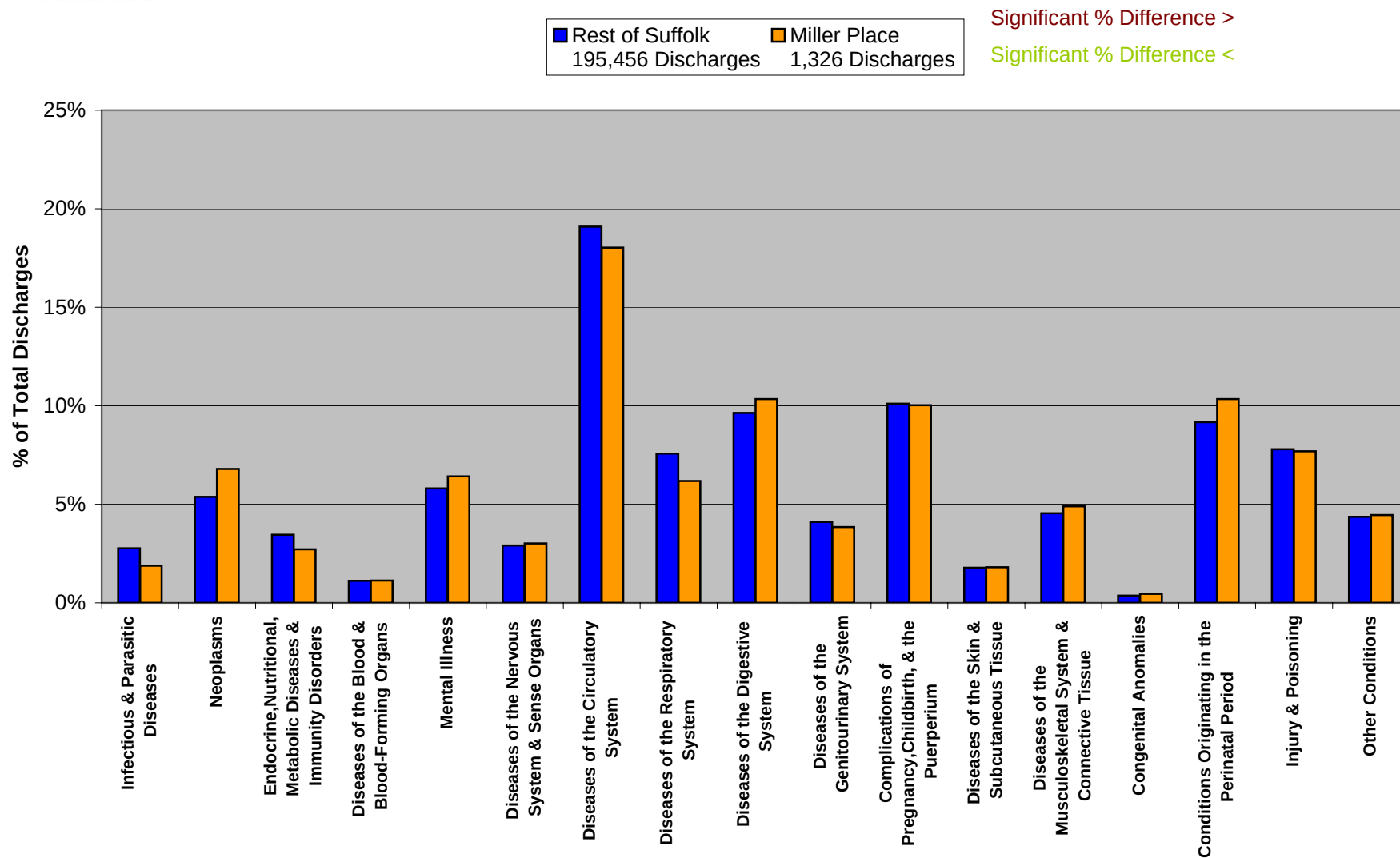
Melville Hospital Discharges 2008 by Clustered Diagnoses (CCS)



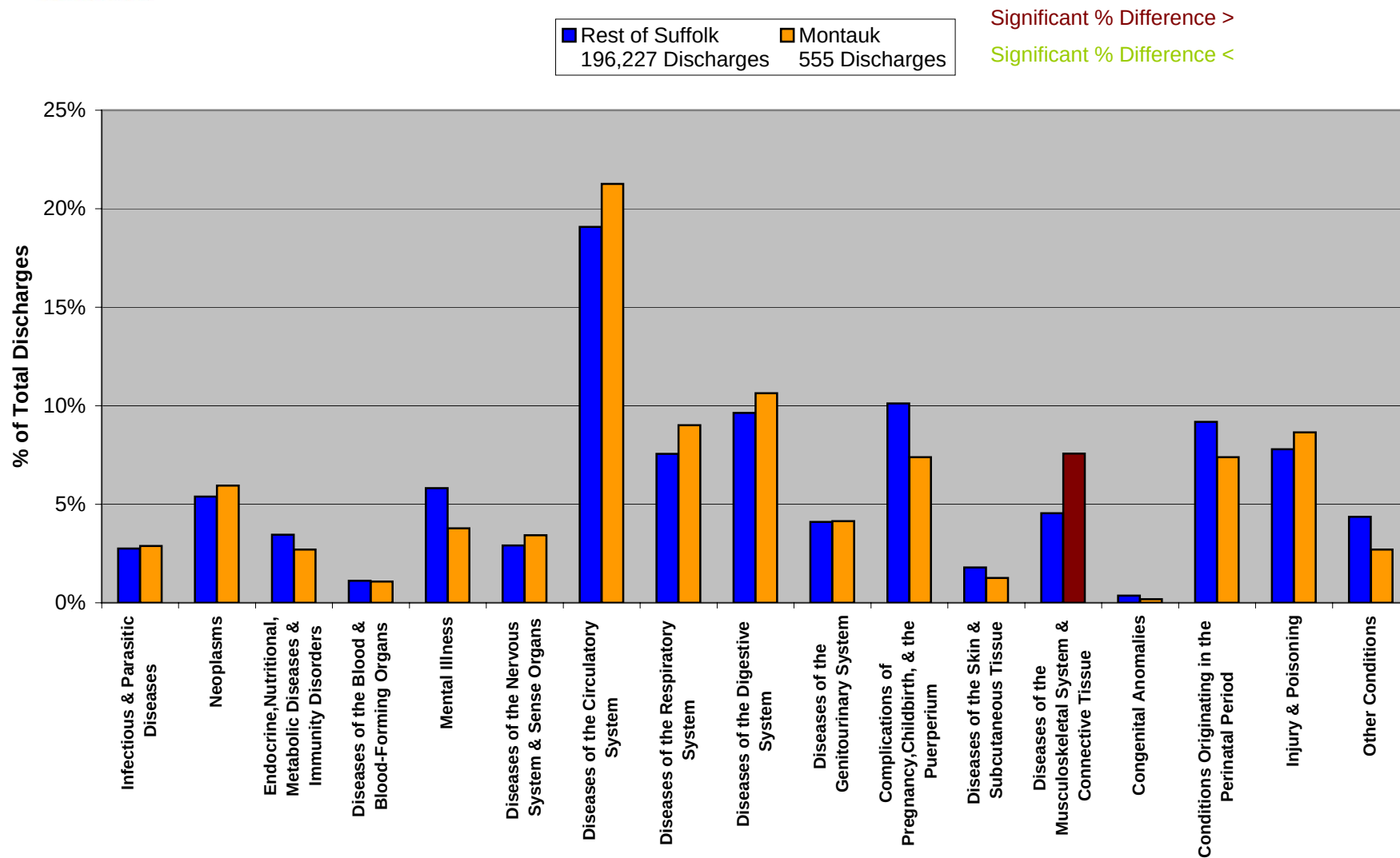
Middle Island Hospital Discharges 2008 by Clustered Diagnoses (CCS)



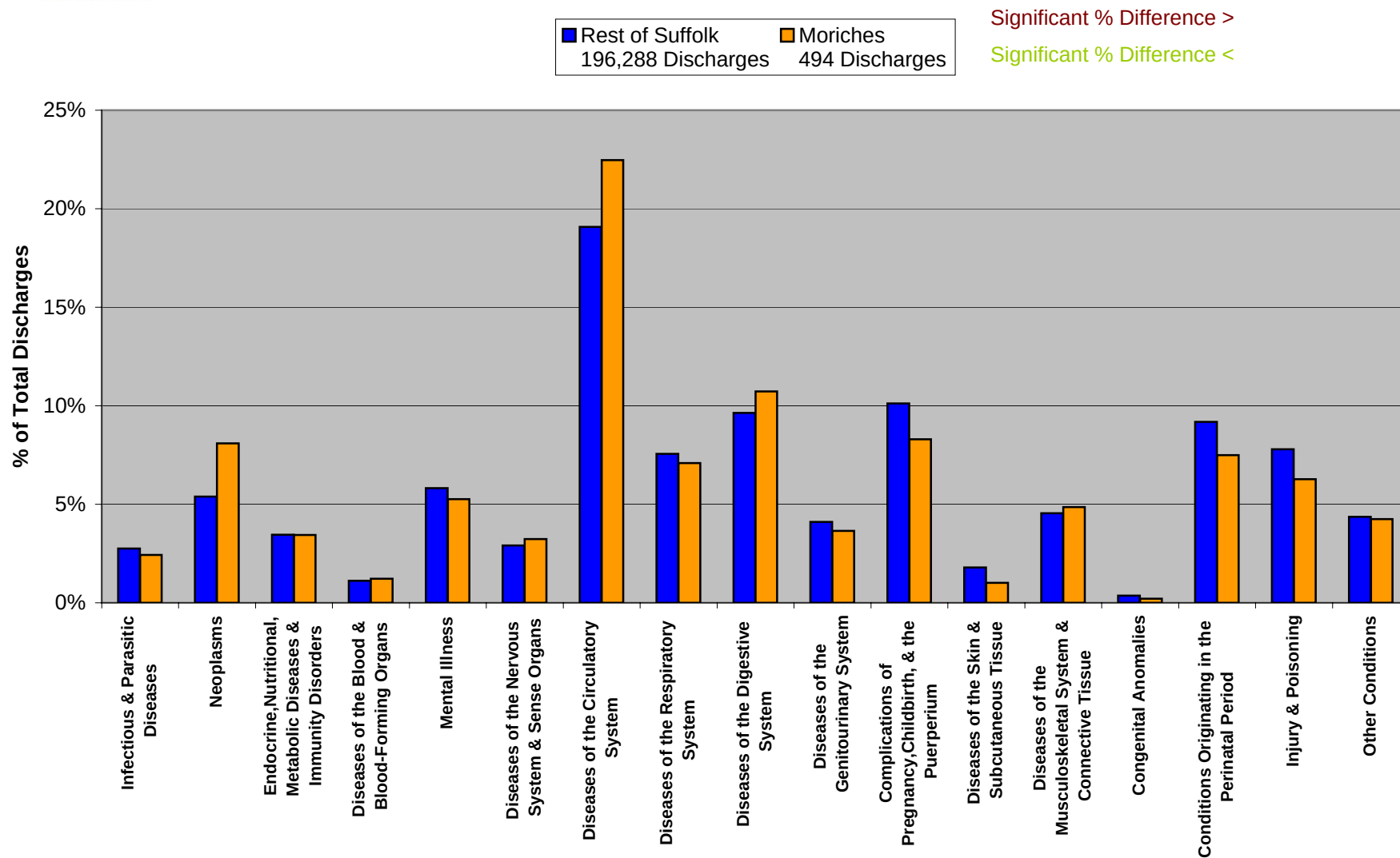
Miller Place Hospital Discharges 2008 by Clustered Diagnoses (CCS)



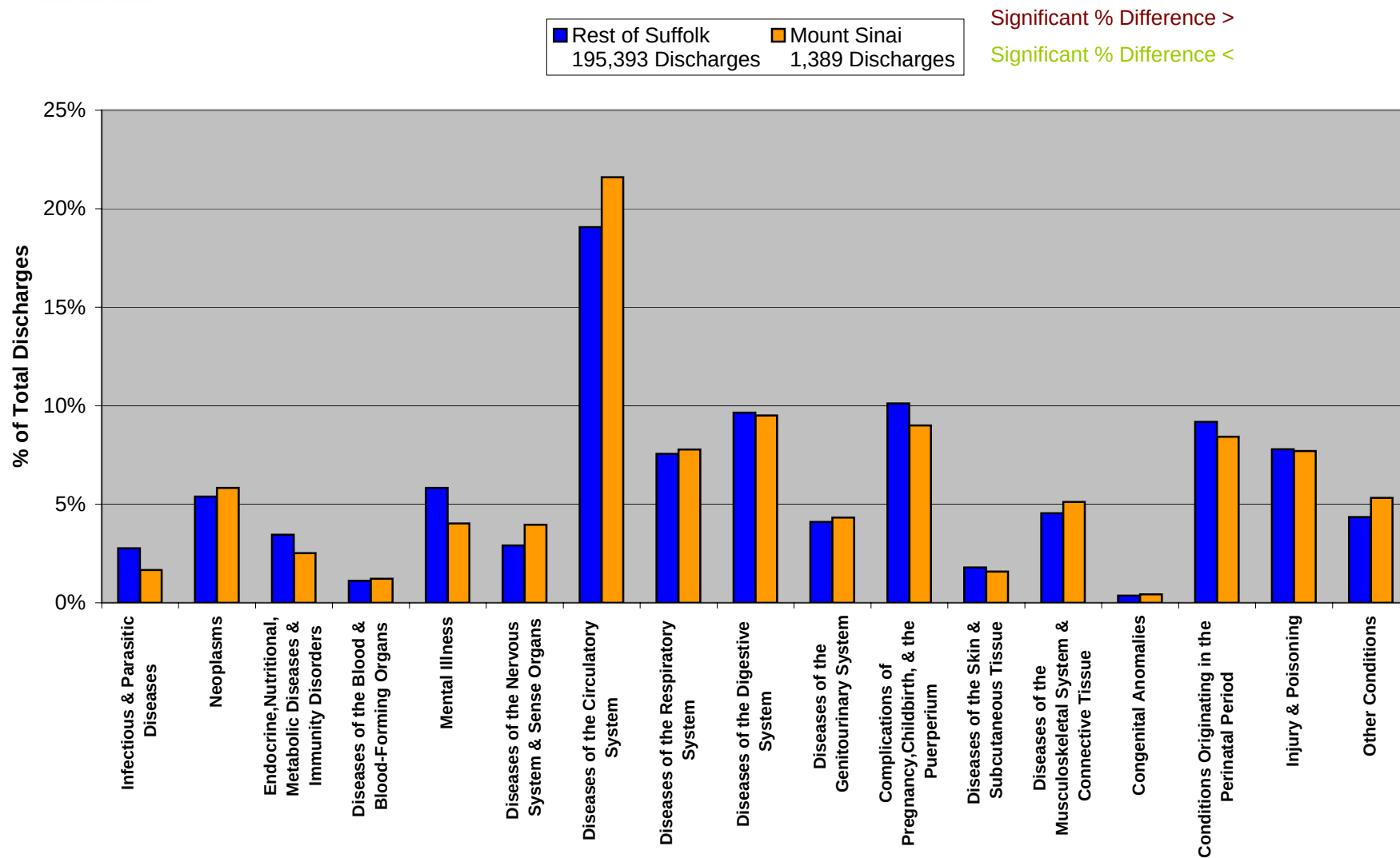
Montauk Hospital Discharges 2008 by Clustered Diagnoses (CCS)



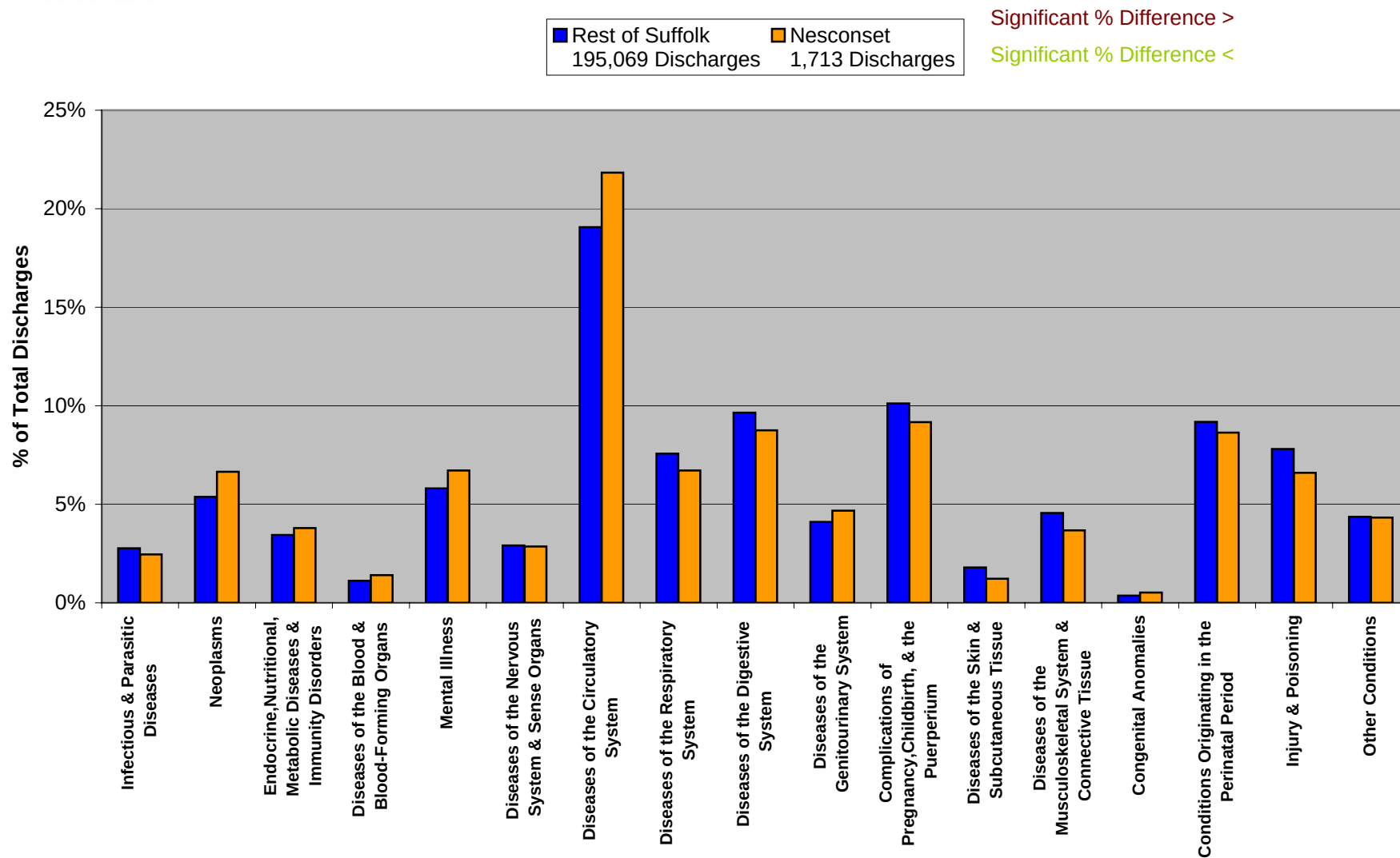
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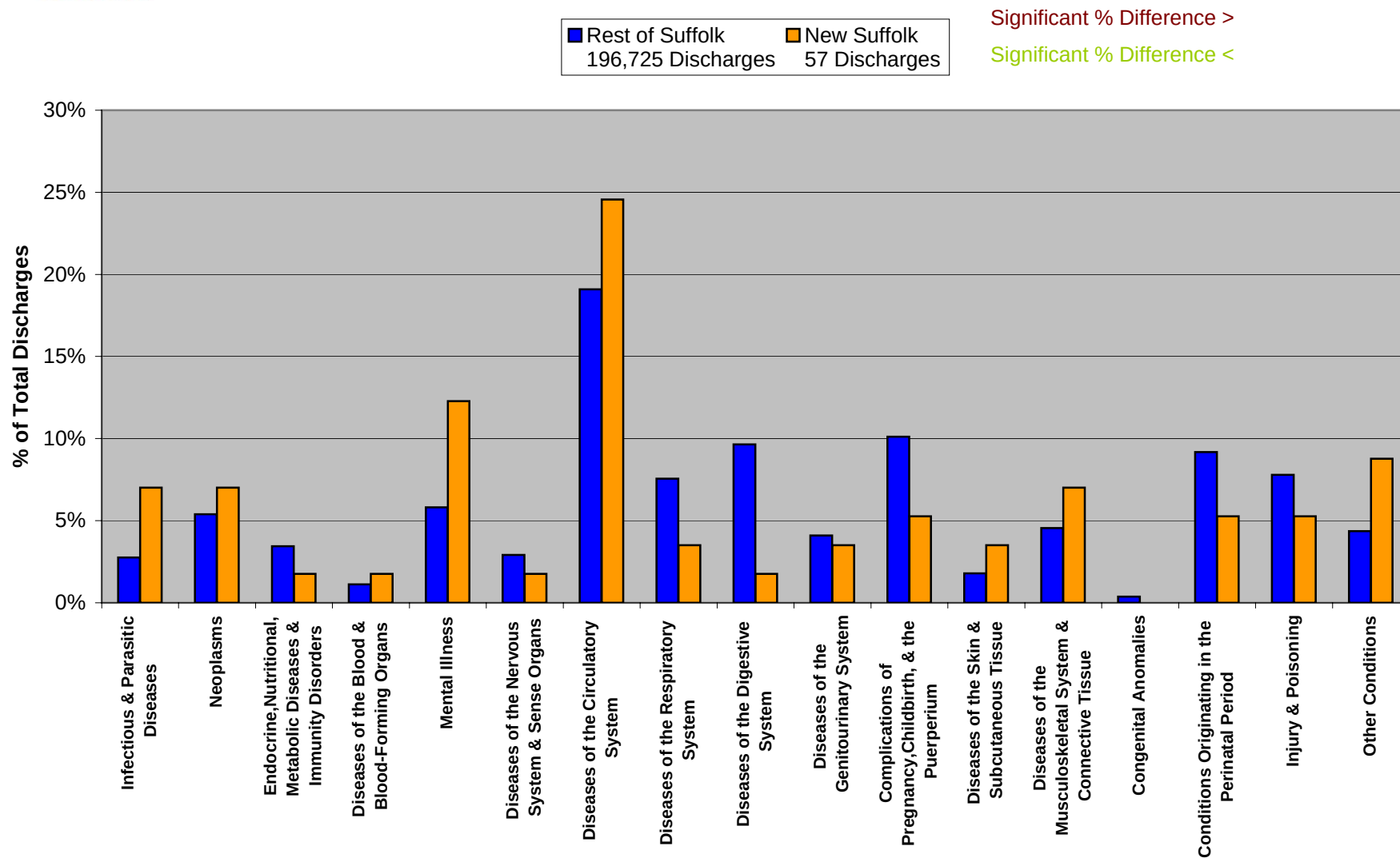
Mount Sinai Hospital Discharges 2008 by Clustered Diagnoses (CCS)



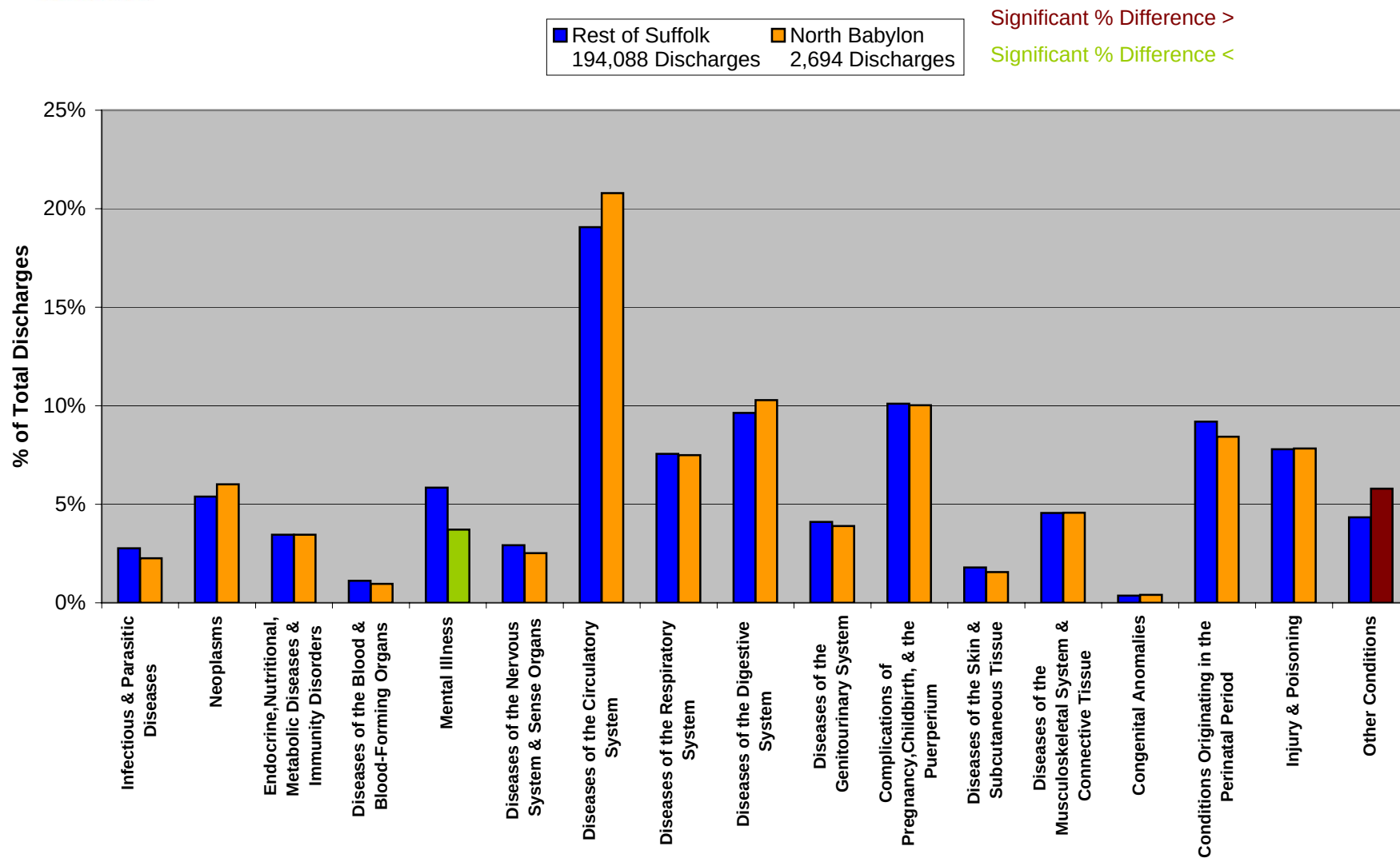
Nesconset **Hospital Discharges 2008 by Clustered Diagnoses (CCS)**



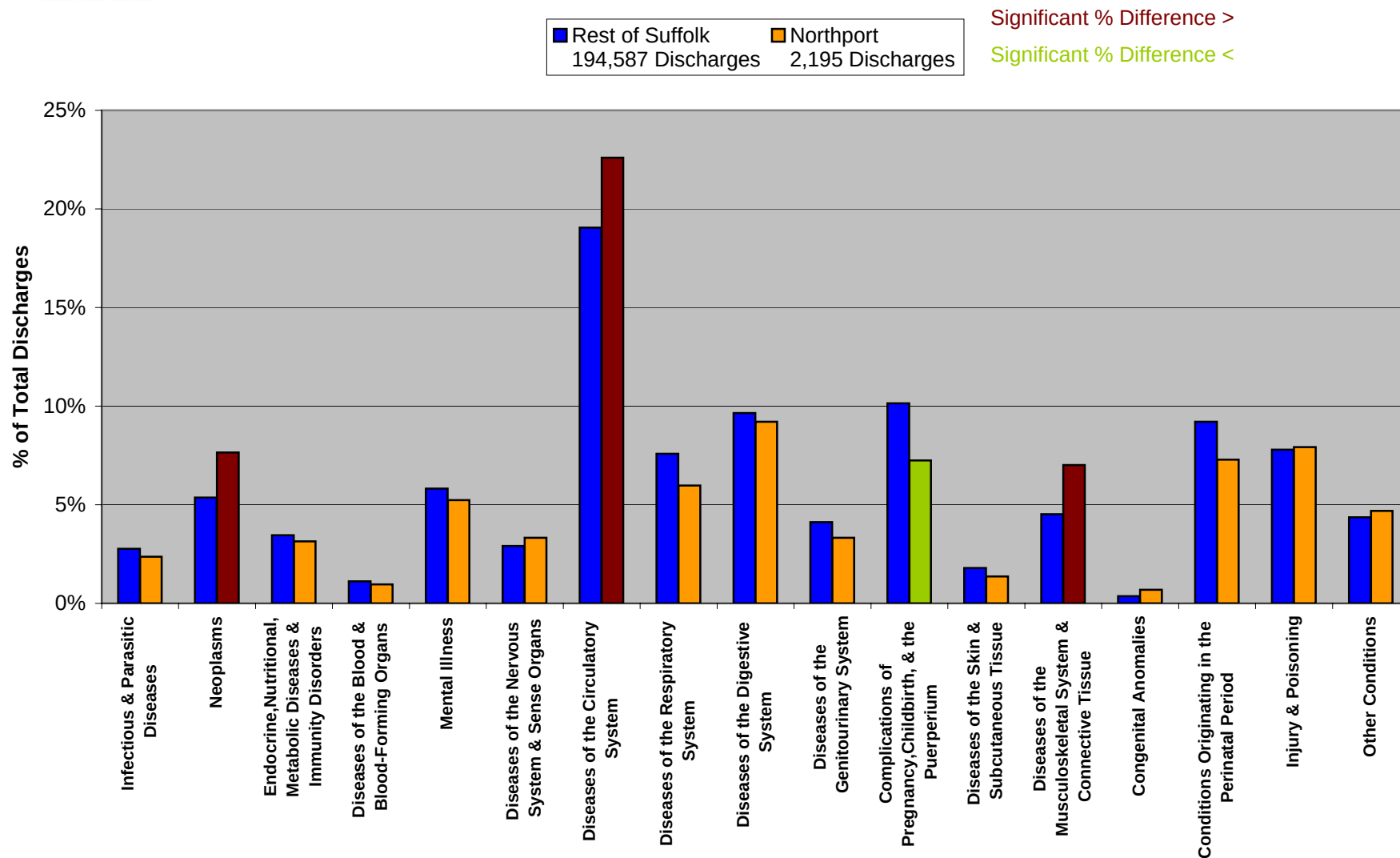
New Suffolk Hospital Discharges 2008 by Clustered Diagnoses (CCS)



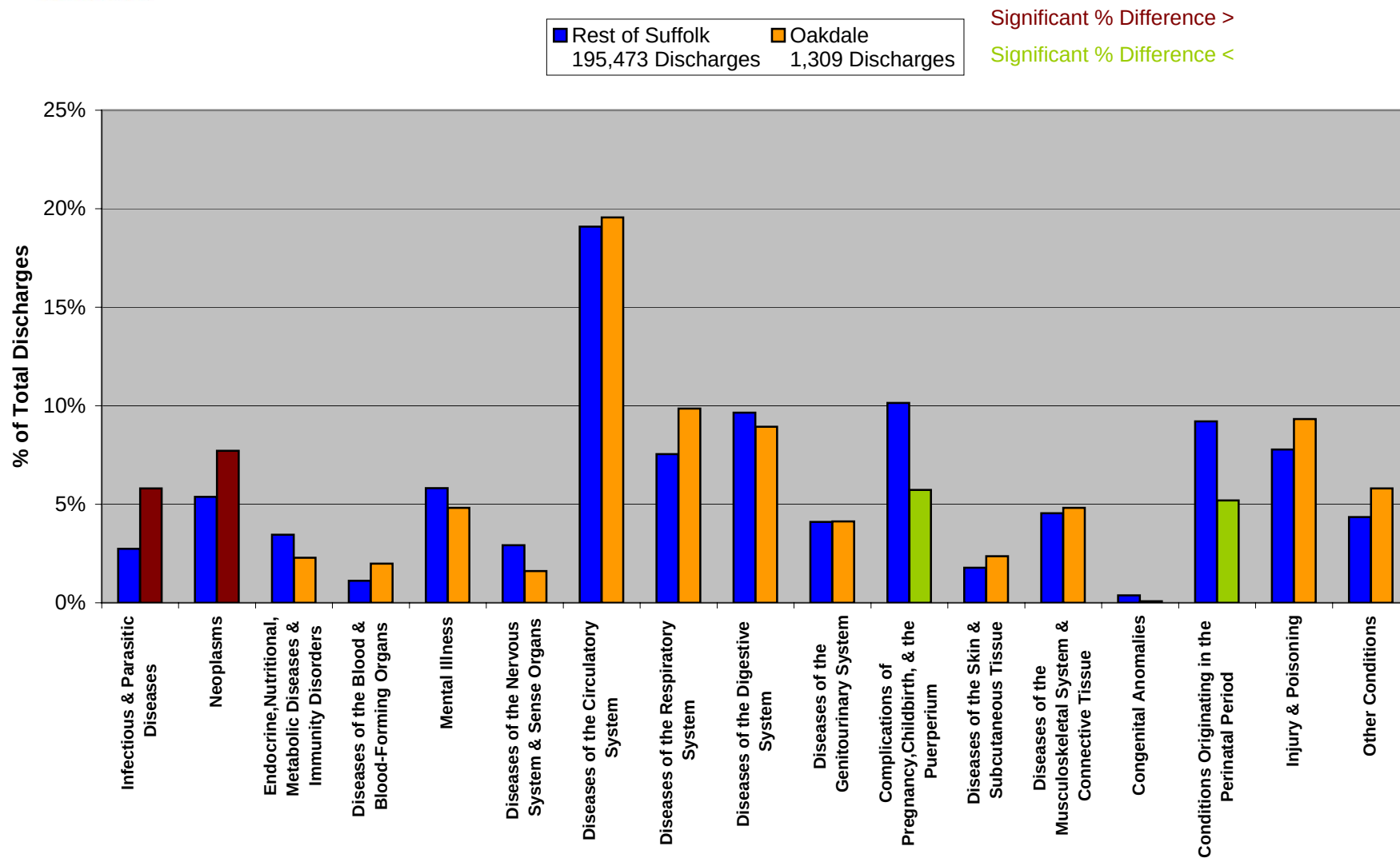
North Babylon Hospital Discharges 2008 by Clustered Diagnoses (CCS)



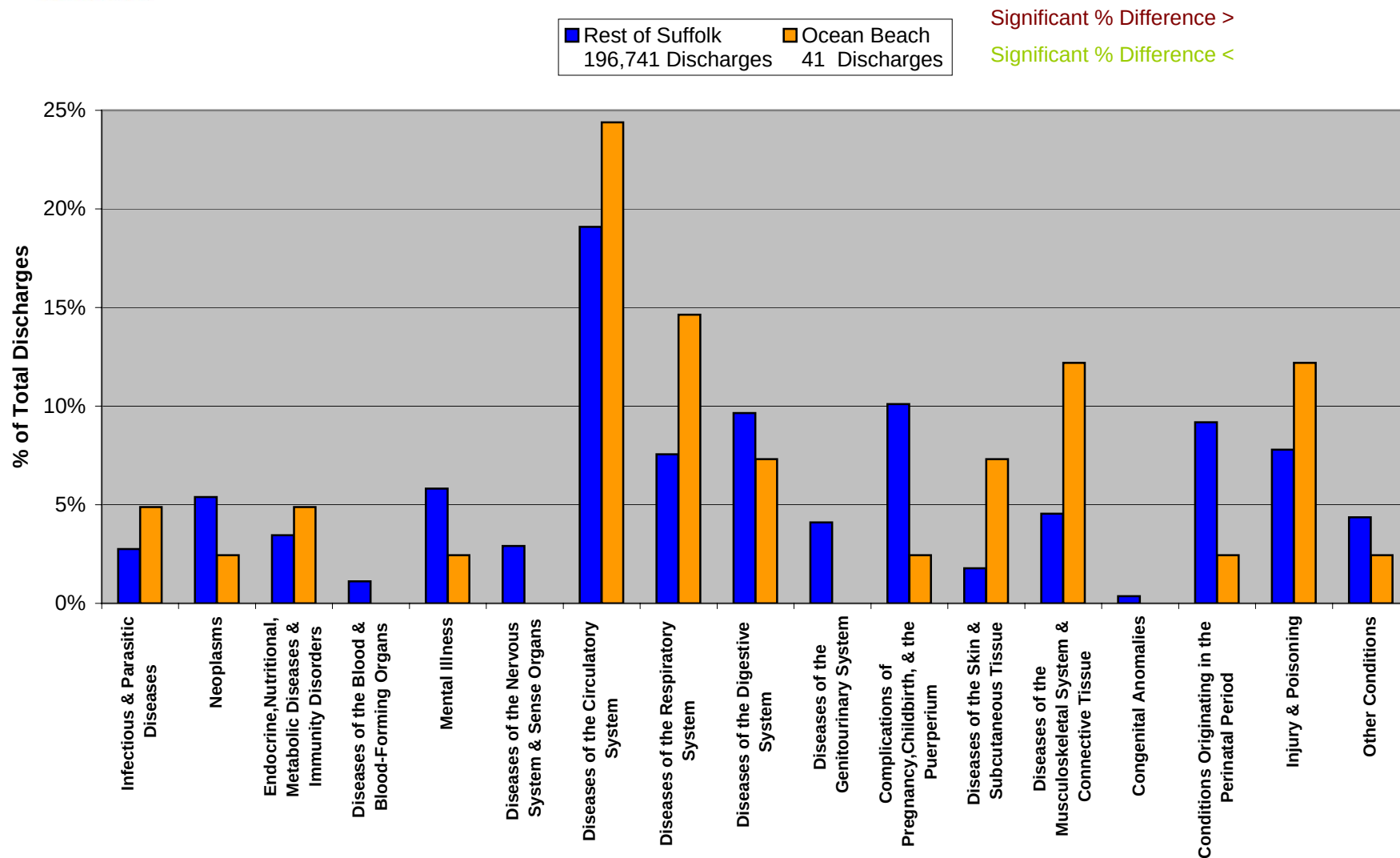
Northport Hospital Discharges 2008 by Clustered Diagnoses (CCS)



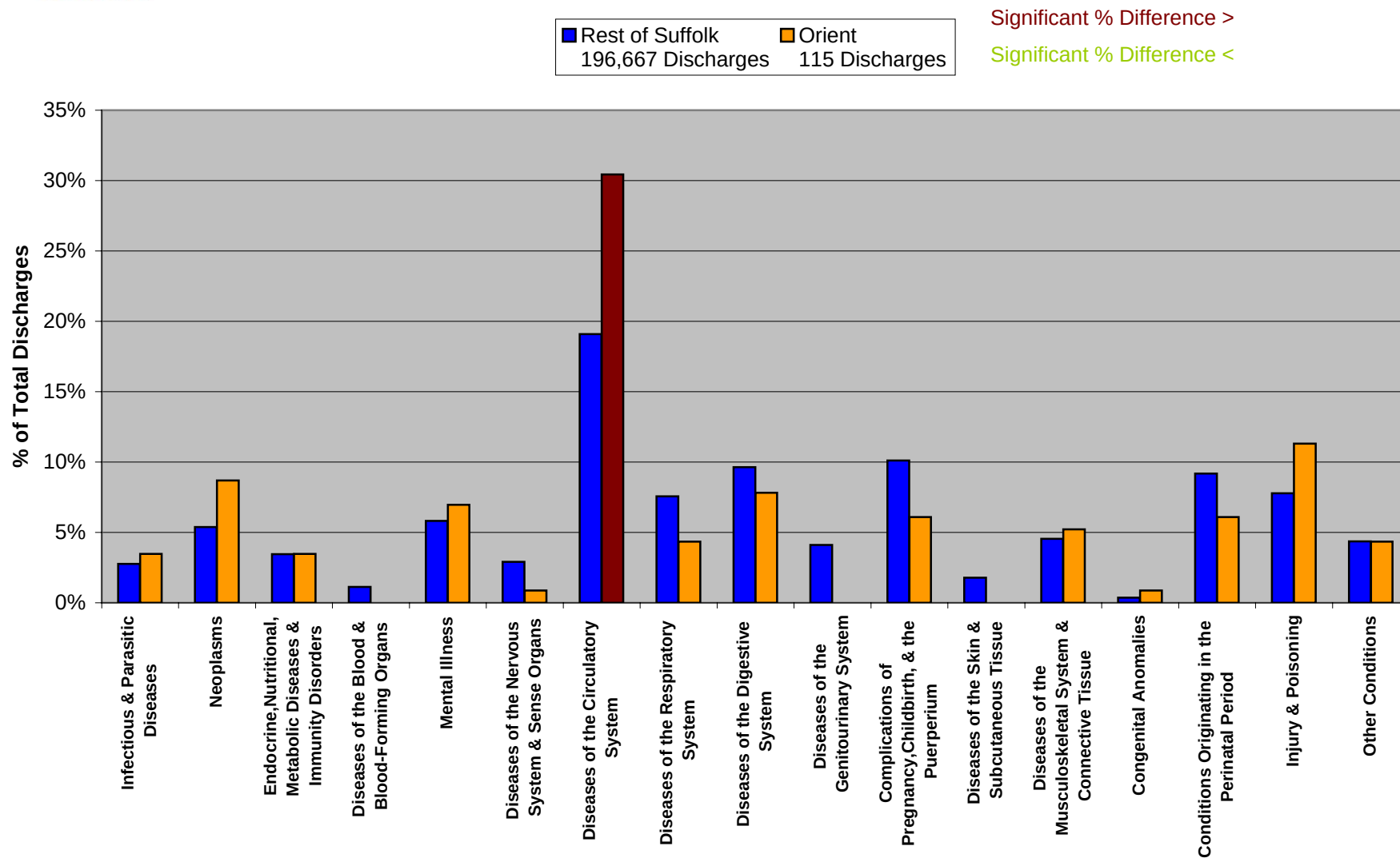
Oakdale Hospital Discharges 2008 by Clustered Diagnoses (CCS)



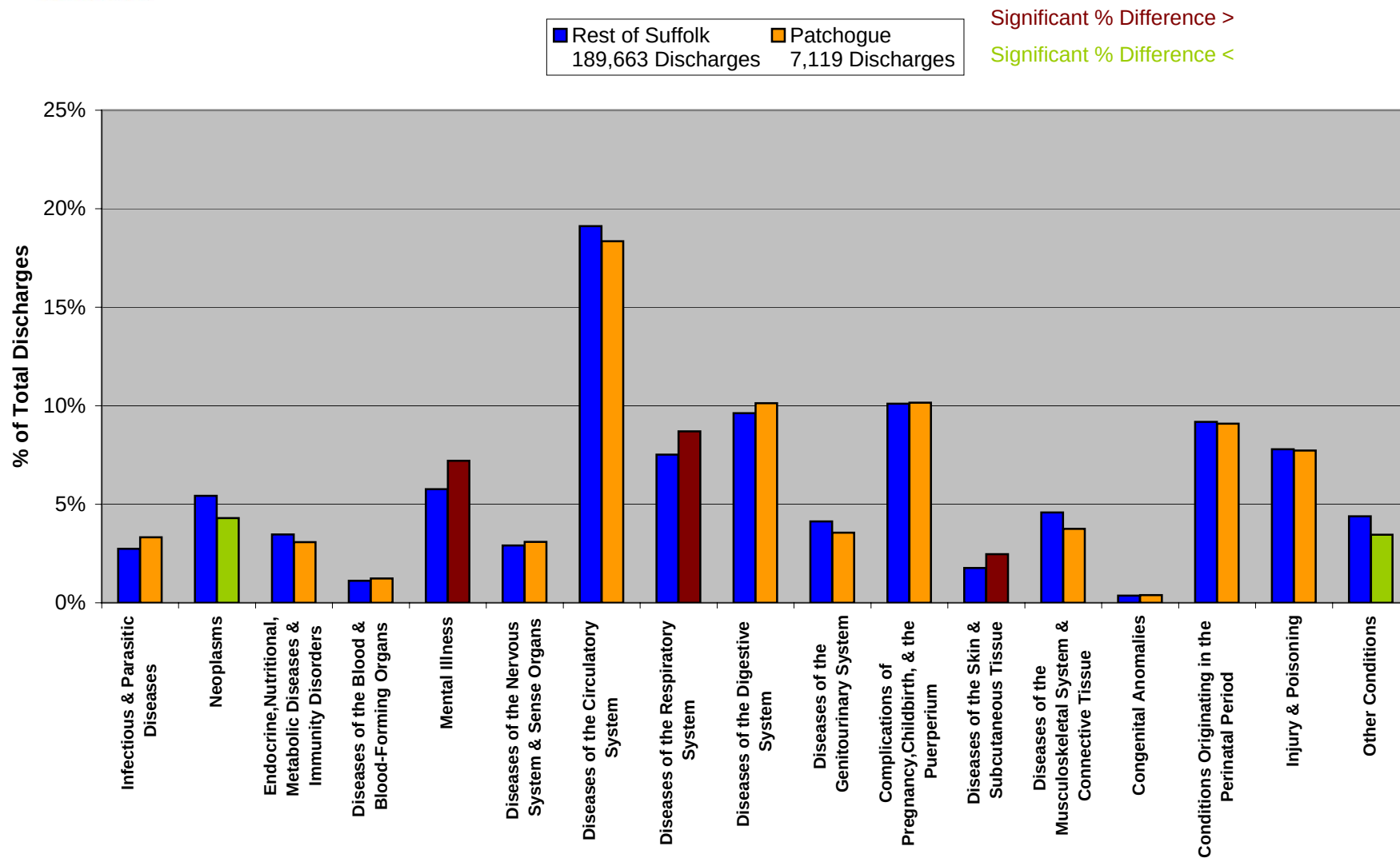
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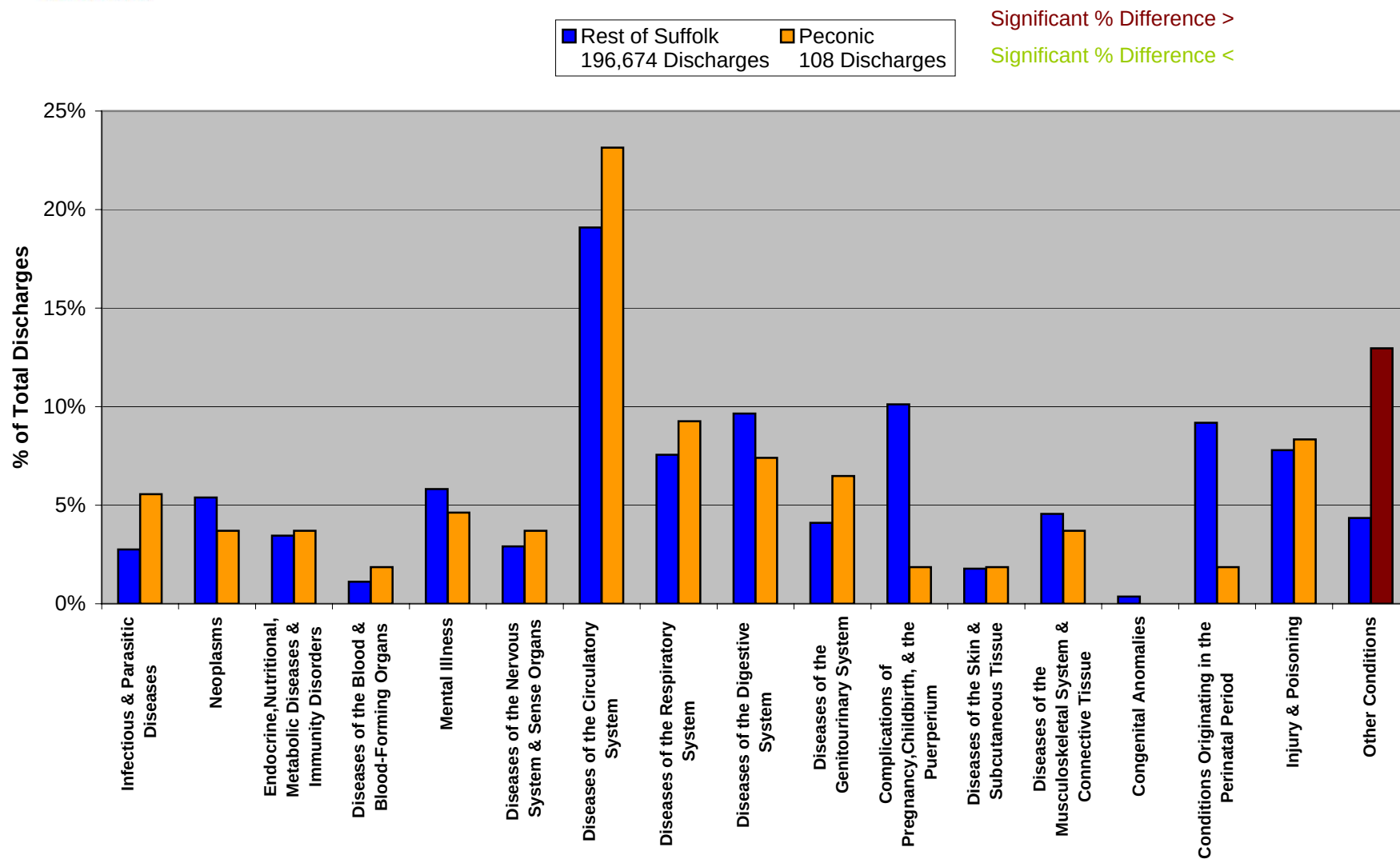
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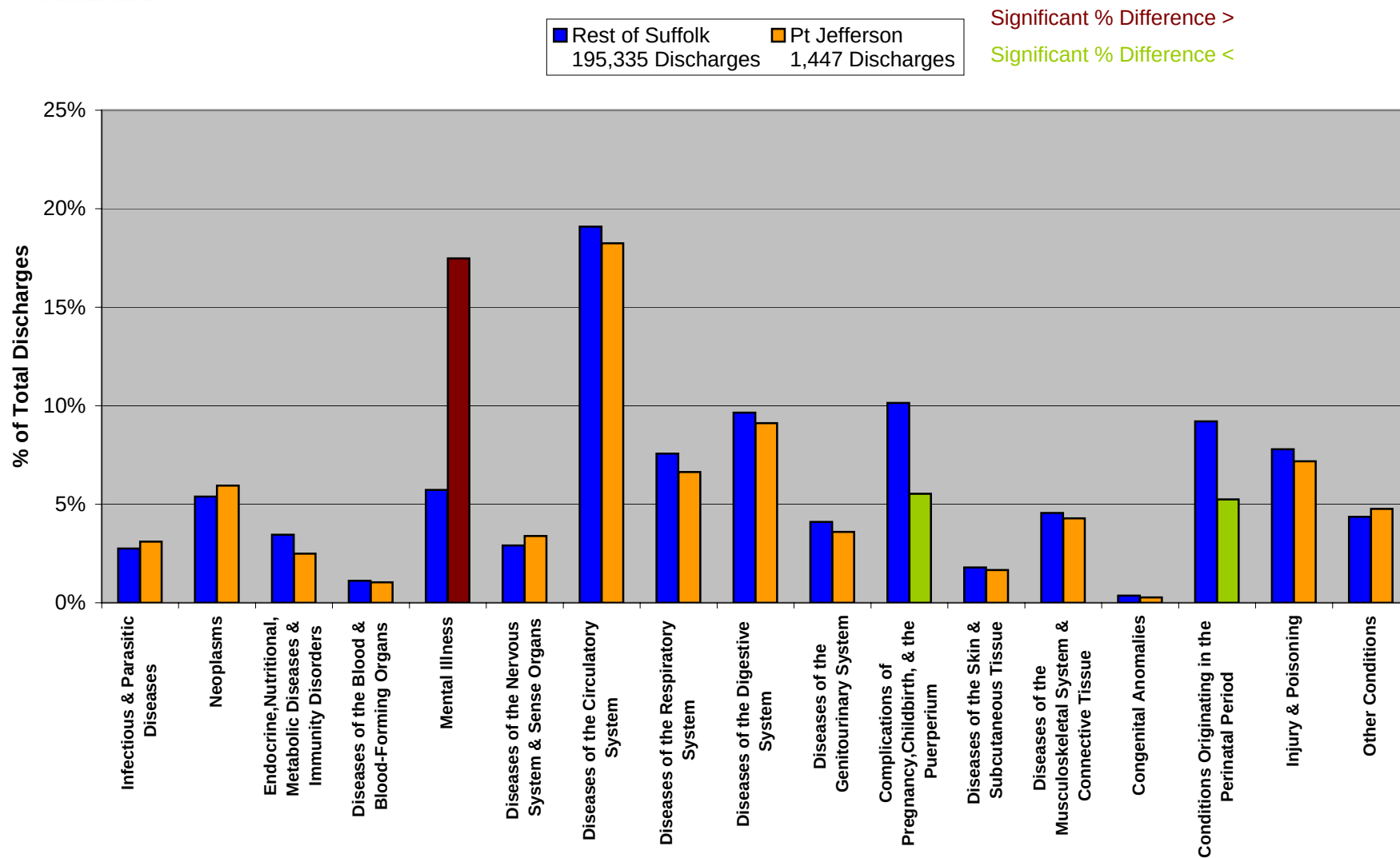
Patchogue Hospital Discharges 2008 by Clustered Diagnoses (CCS)



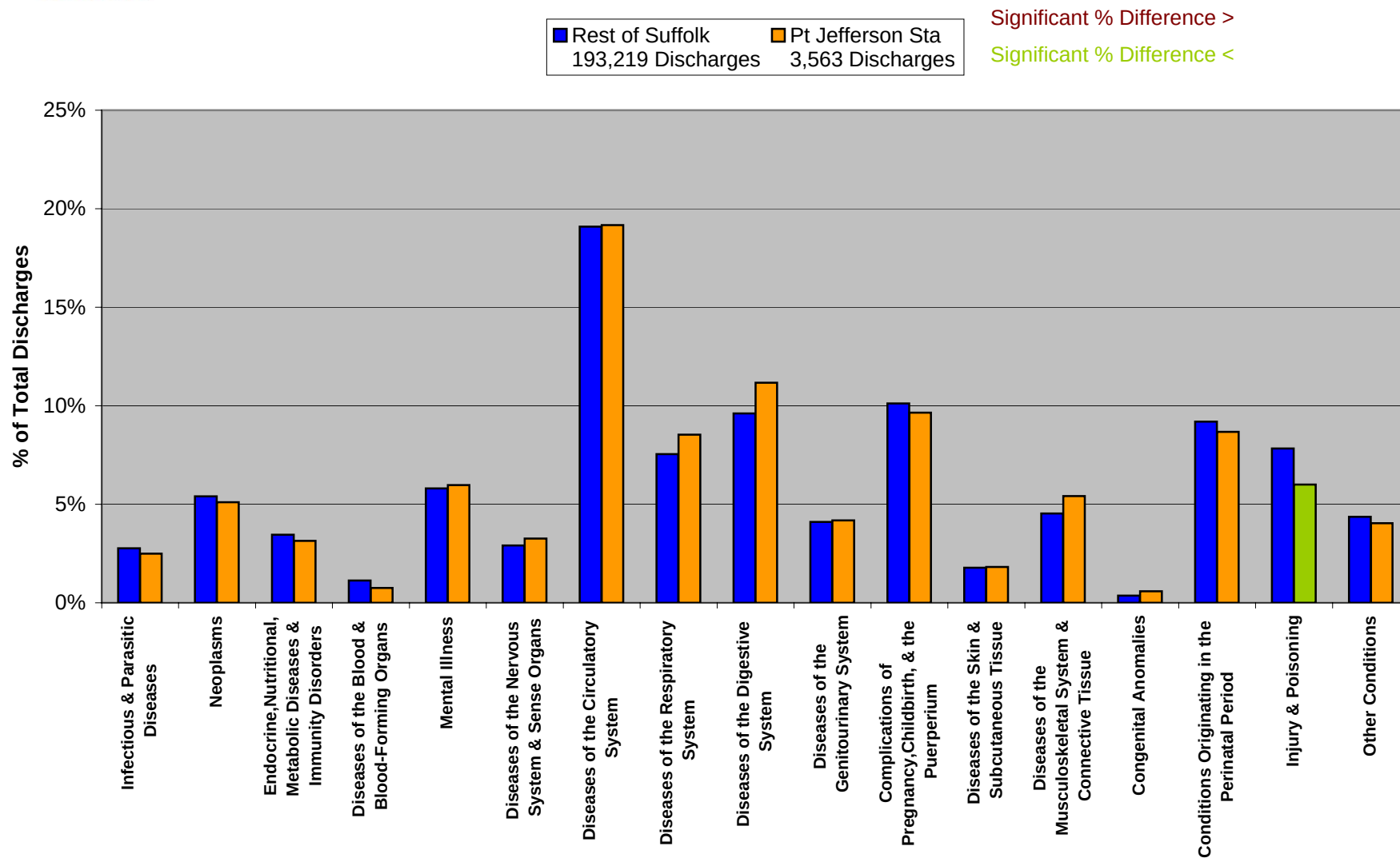
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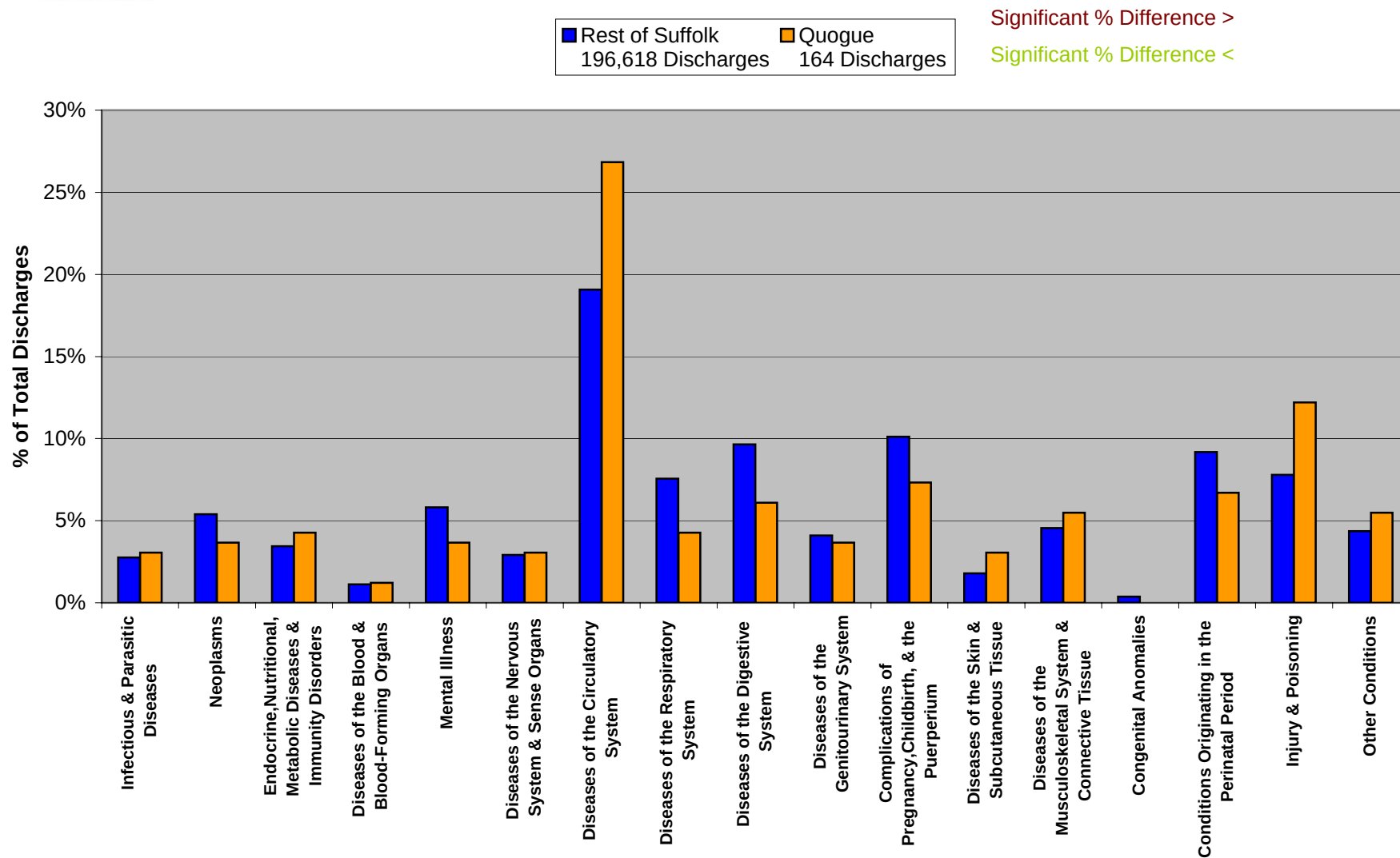
Pt Jefferson
Hospital Discharges 2008 by Clustered Diagnoses (CCS)



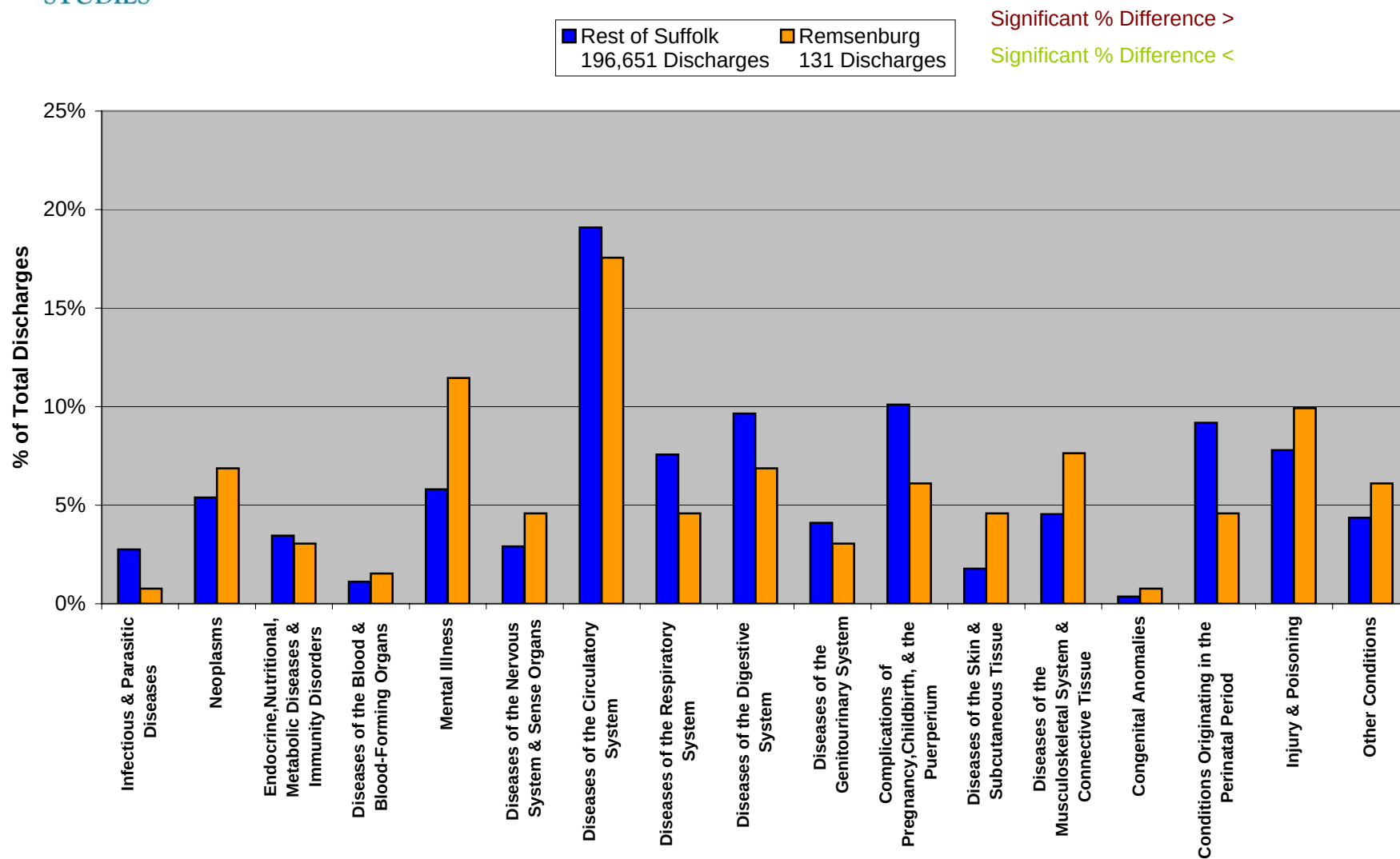
Pt Jefferson Sta
Hospital Discharges 2008 by Clustered Diagnoses (CCS)



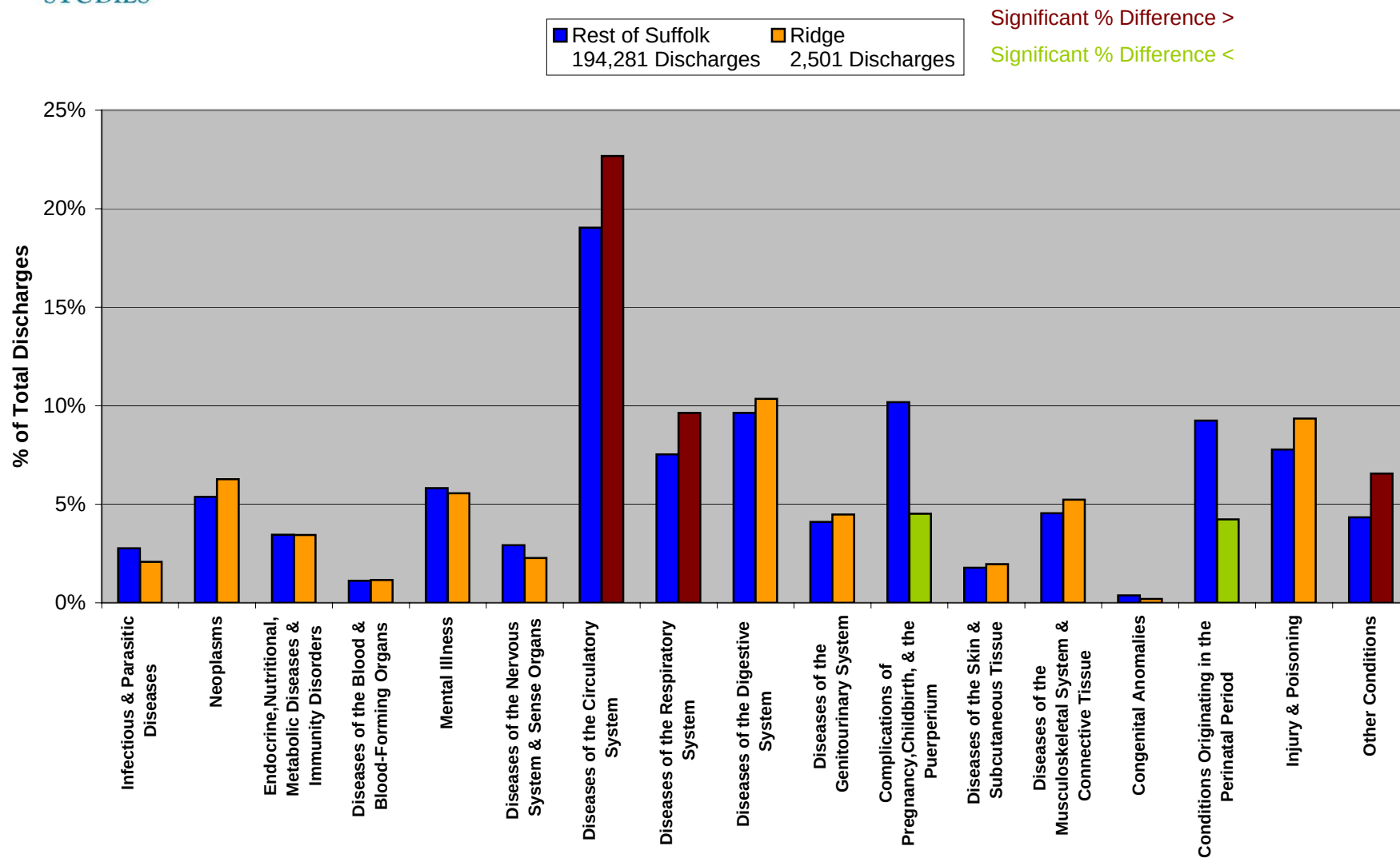
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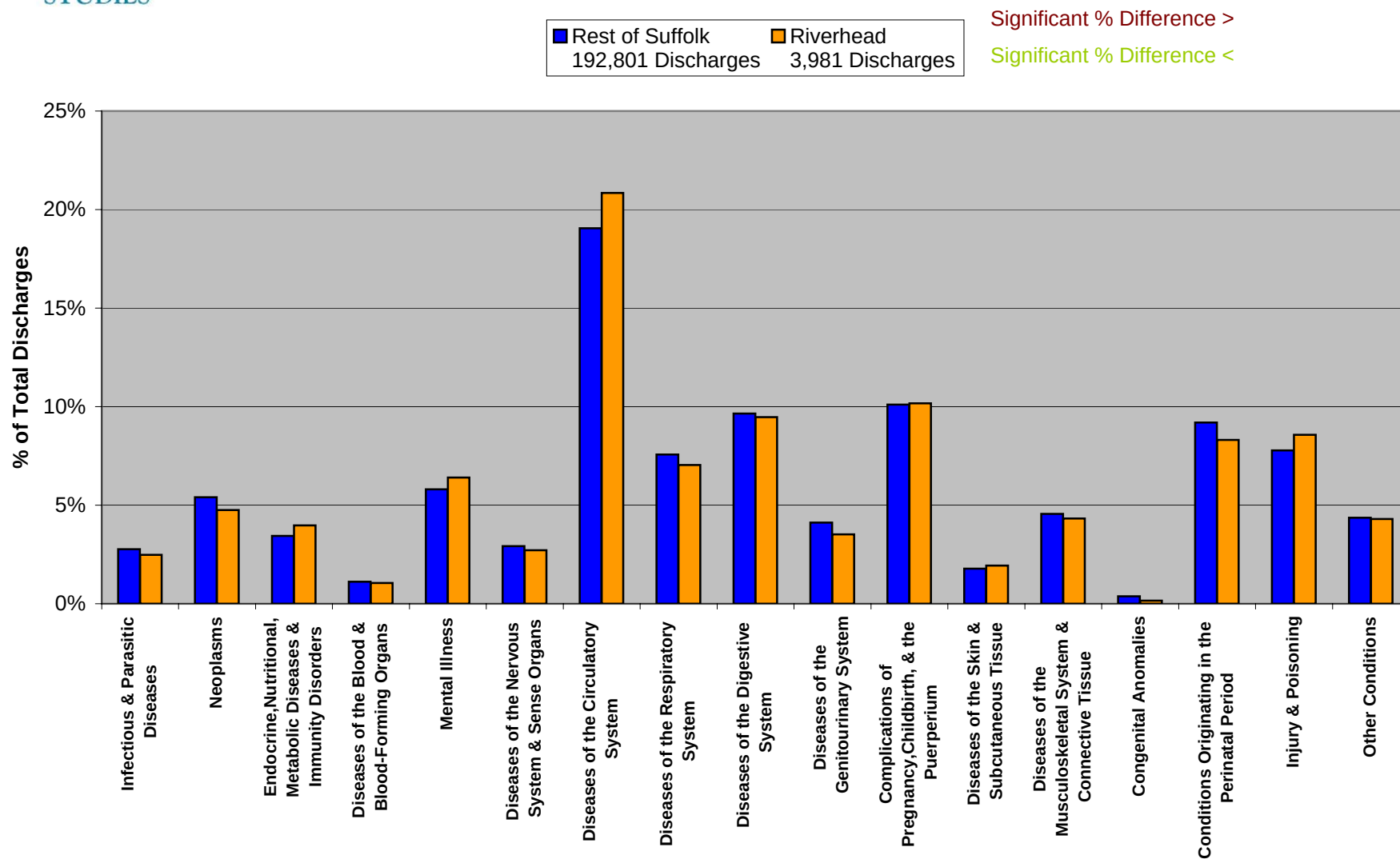
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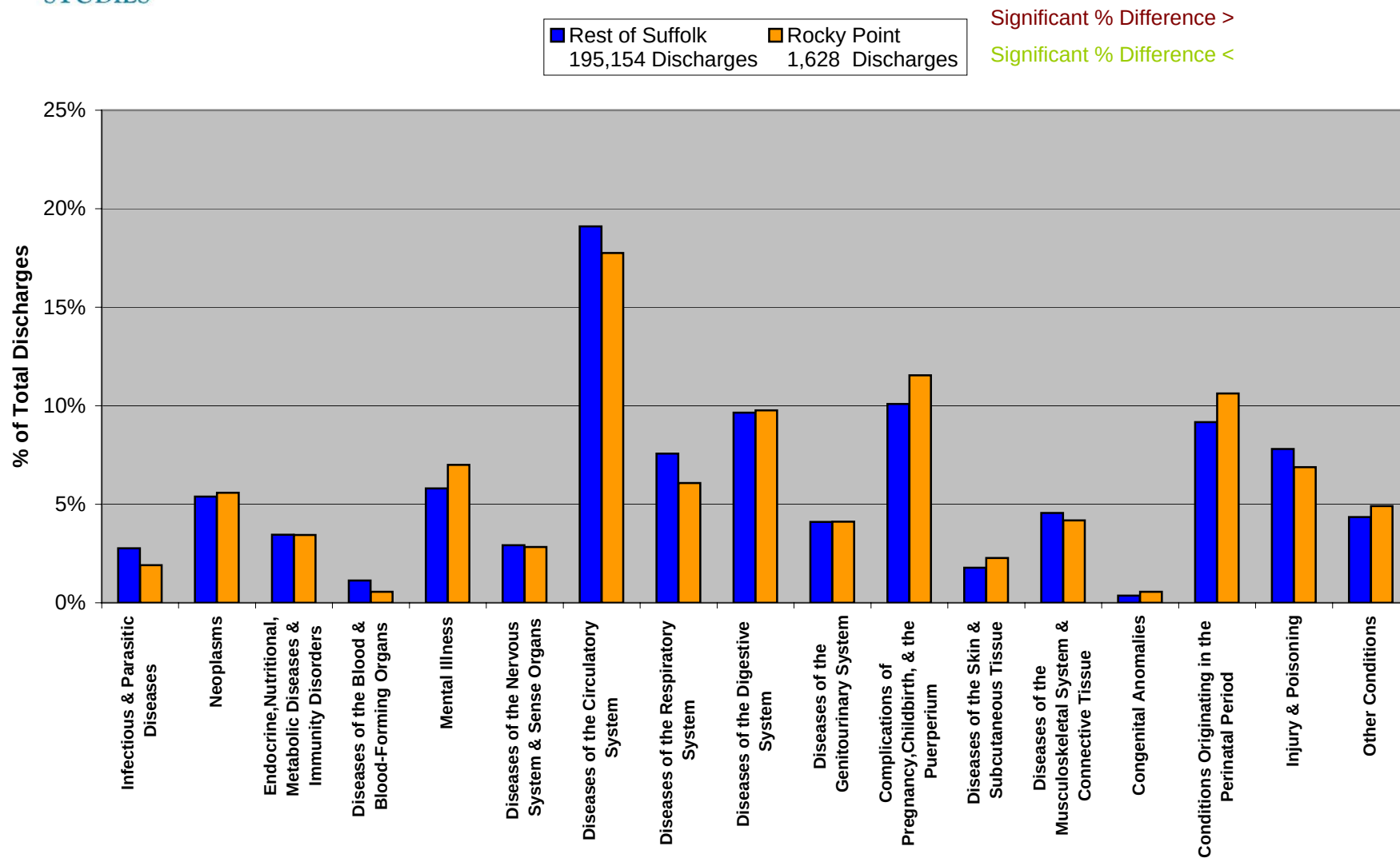
Ridge Hospital Discharges 2008 by Clustered Diagnoses (CCS)



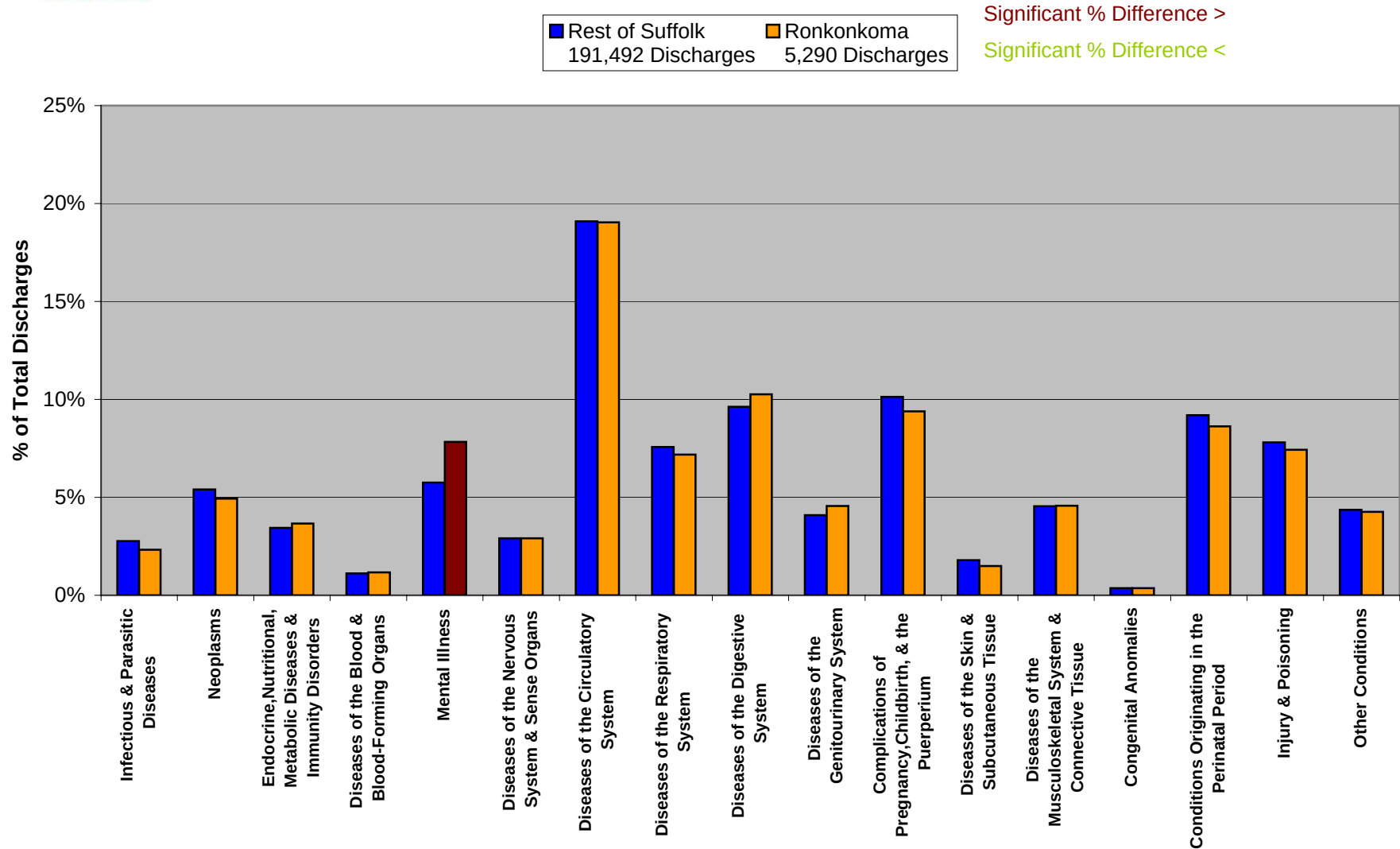
Riverhead Hospital Discharges 2008 by Clustered Diagnoses (CCS)



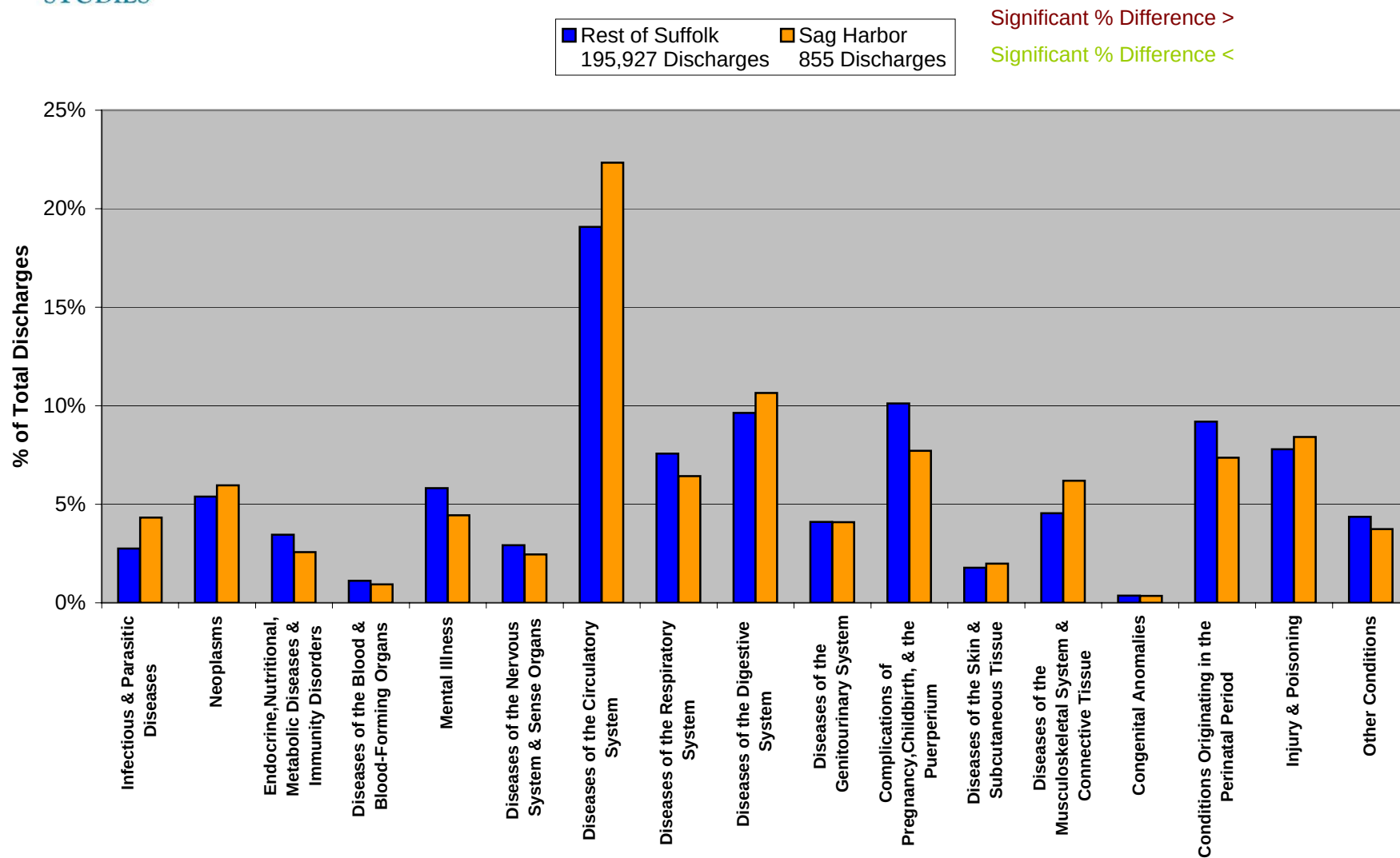
Rocky Point Hospital Discharges 2008 by Clustered Diagnoses (CCS)



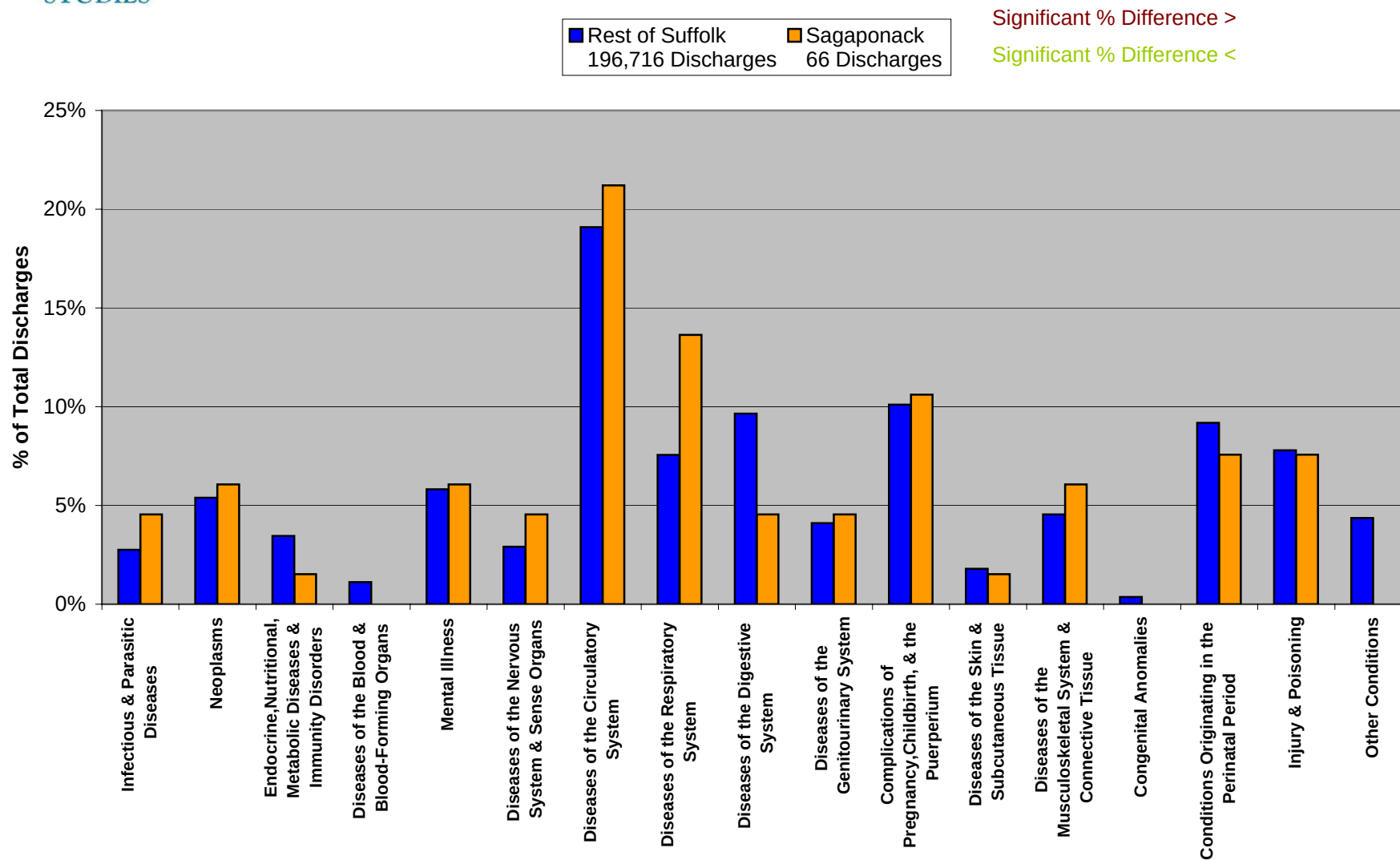
Ronkonkoma Hospital Discharges 2008 by Clustered Diagnoses (CCS)



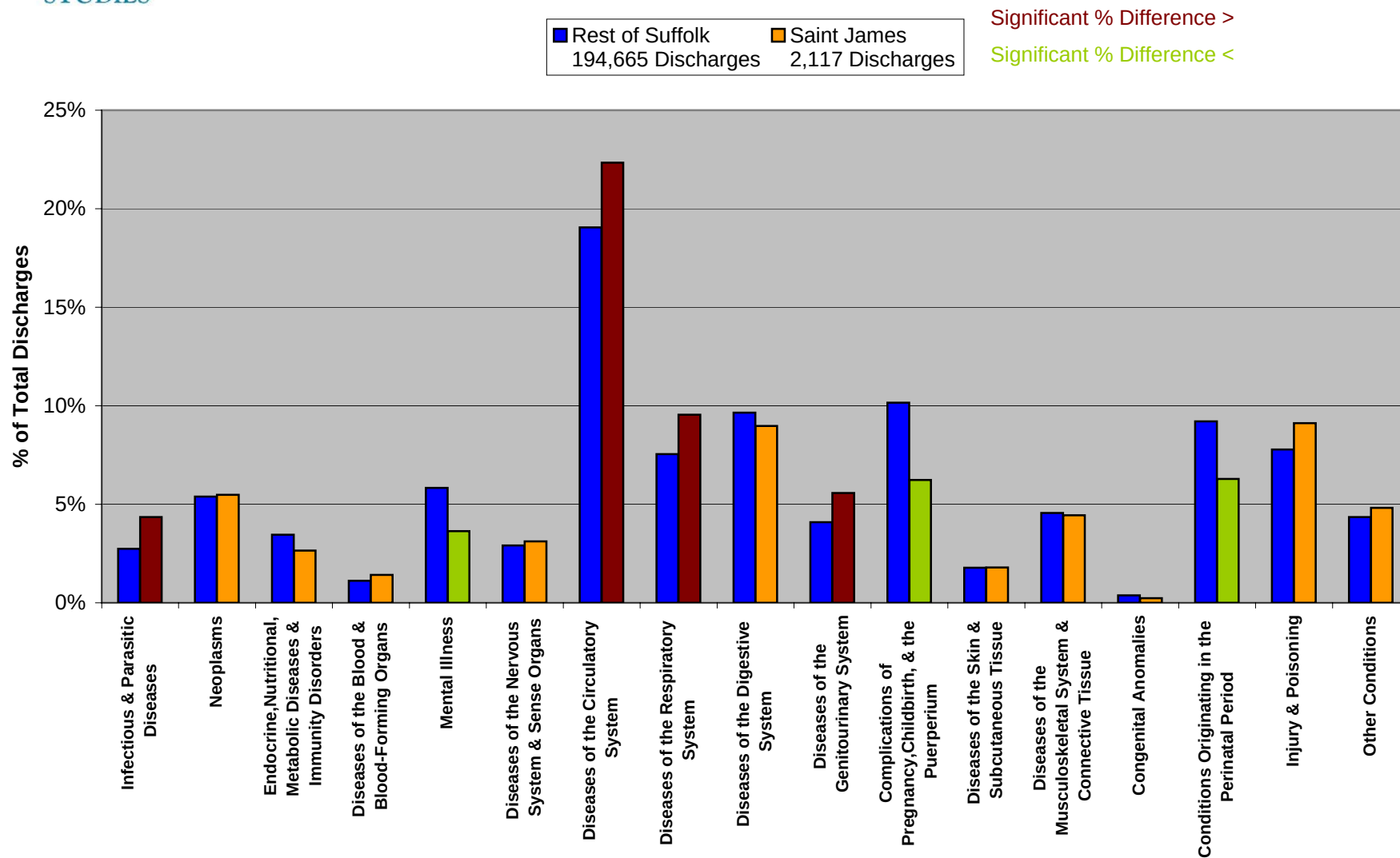
Sag Harbor Hospital Discharges 2008 by Clustered Diagnoses (CCS)



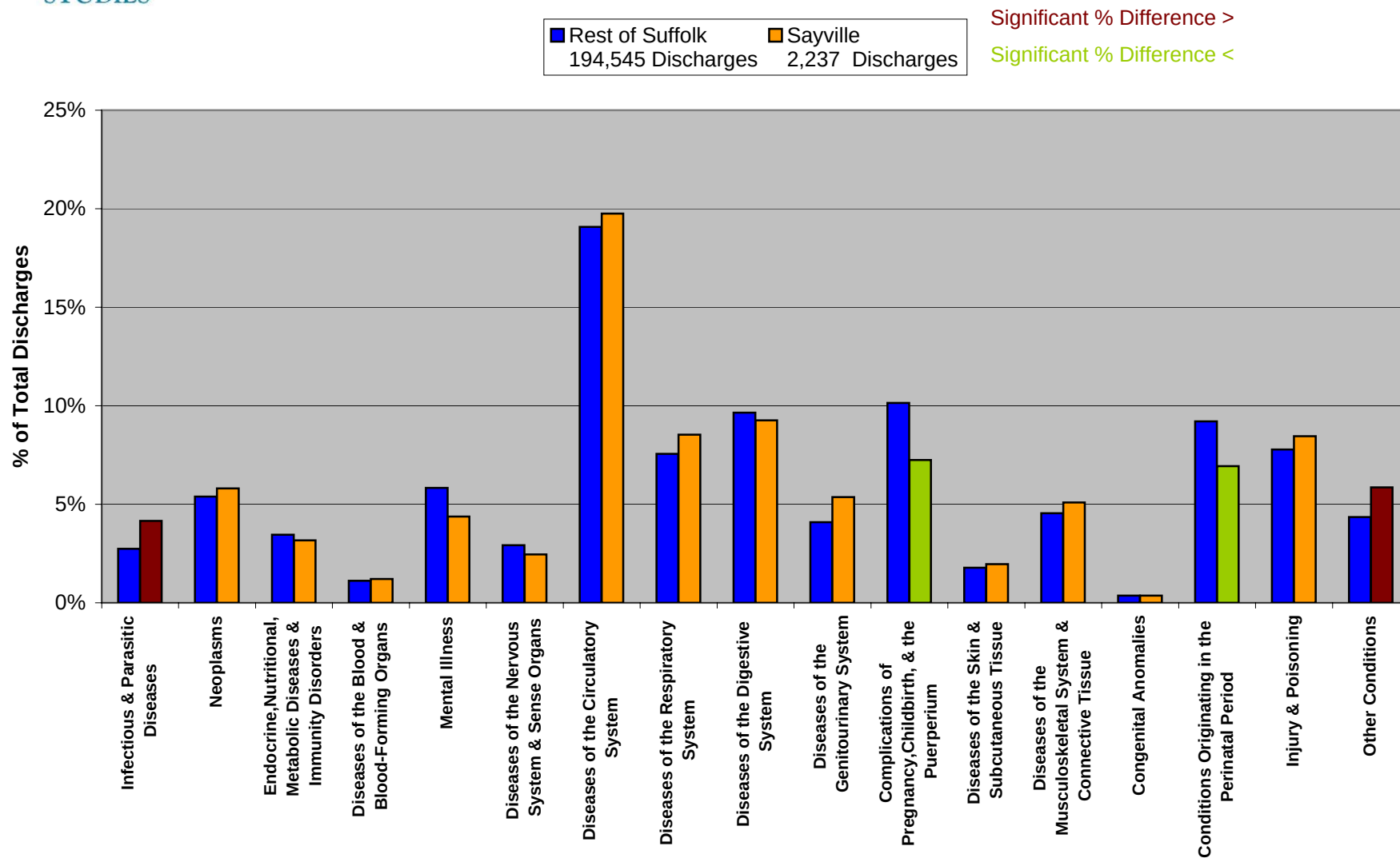
Sagaponack Hospital Discharges 2008 by Clustered Diagnoses (CCS)



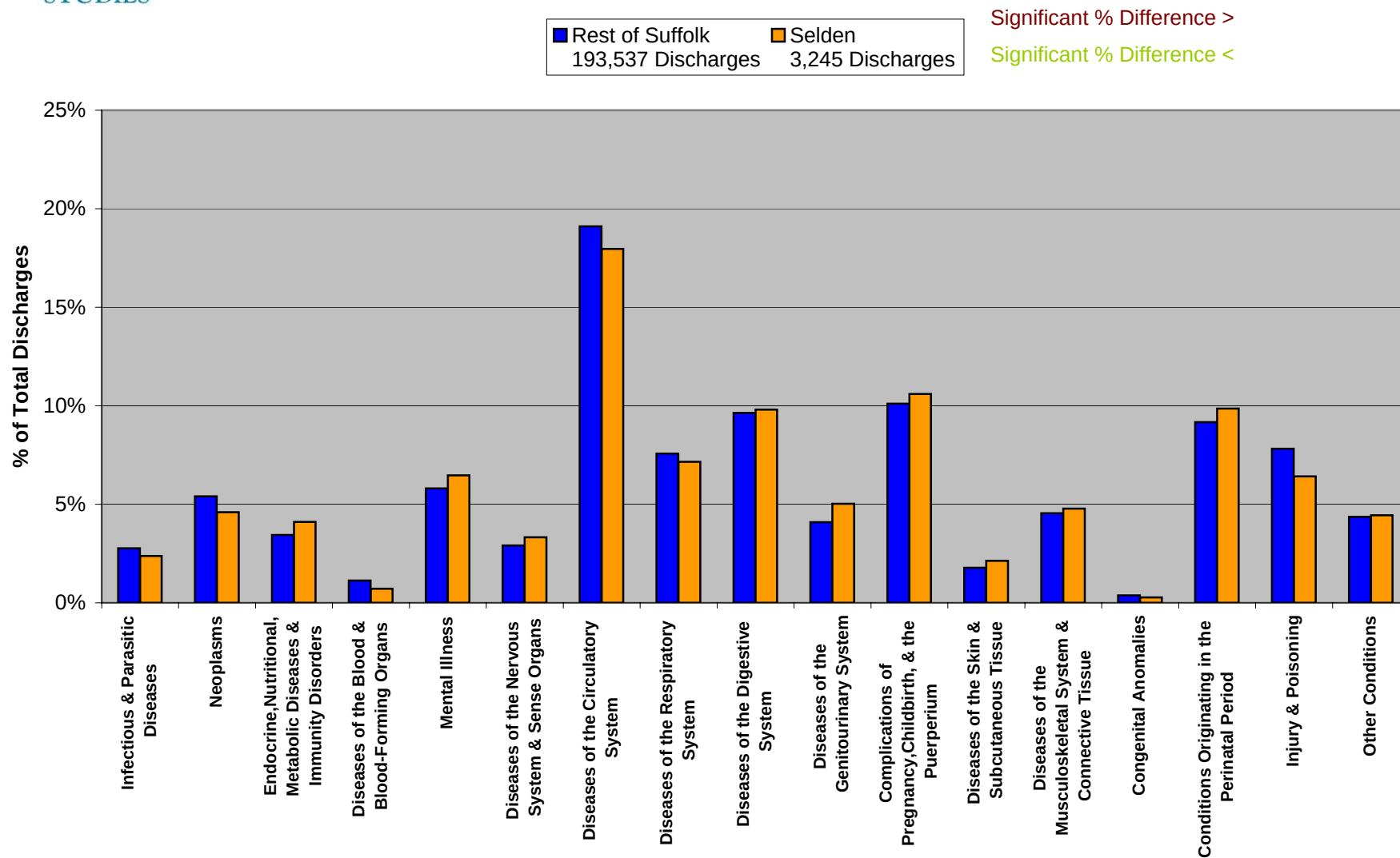
Saint James **Hospital Discharges 2008 by Clustered Diagnoses (CCS)**



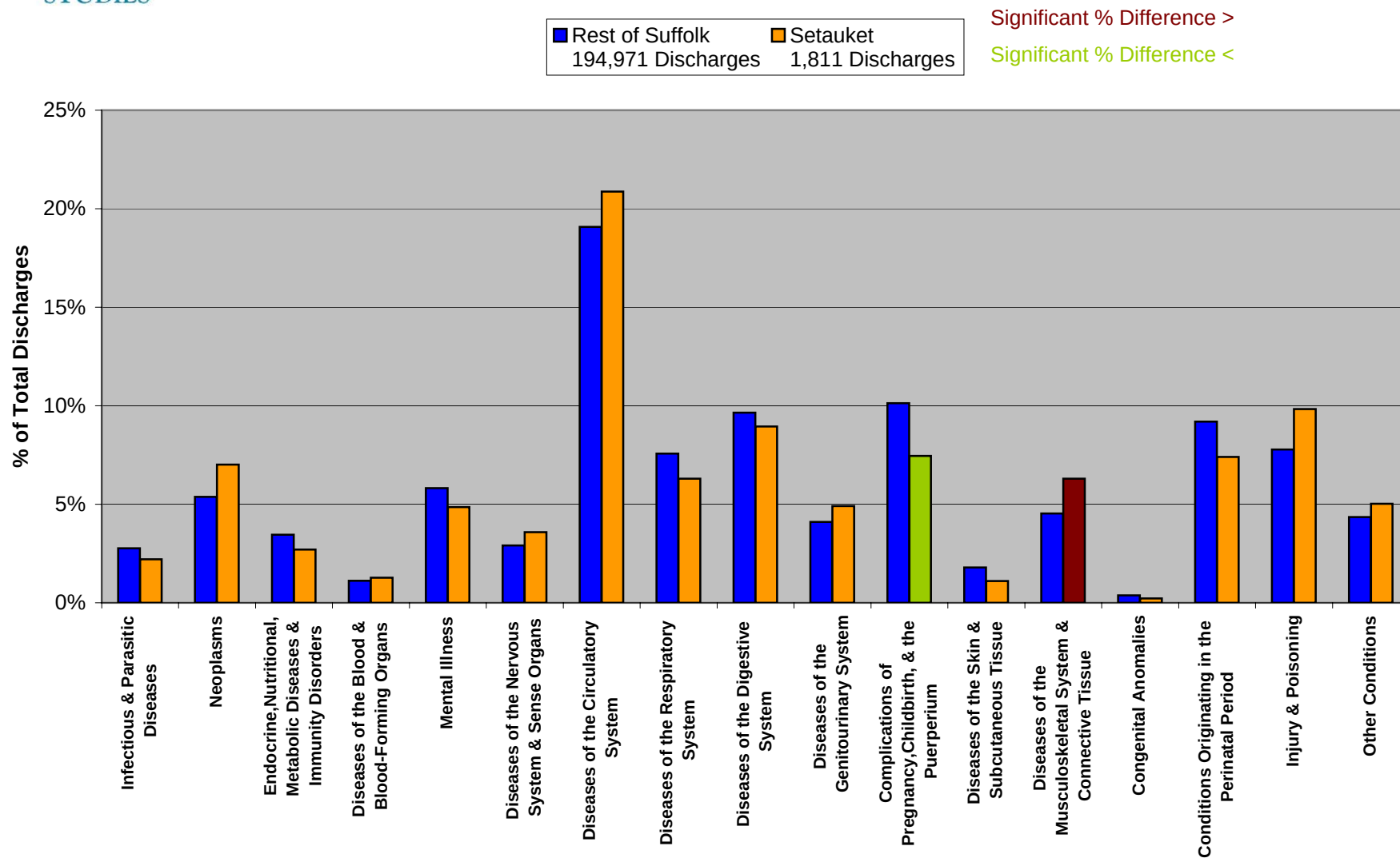
Sayville Hospital Discharges 2008 by Clustered Diagnoses (CCS)



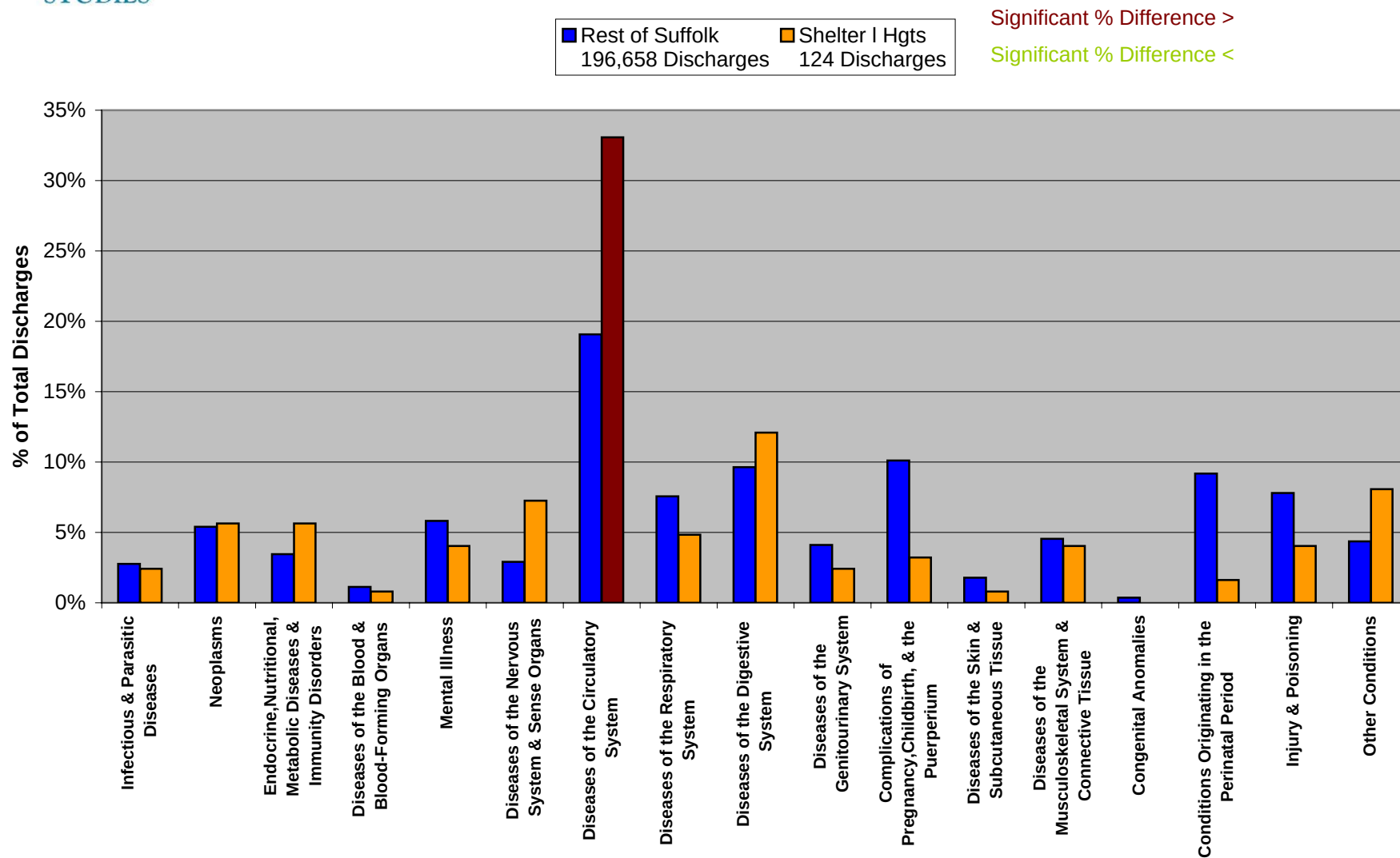
Selden Hospital Discharges 2008 by Clustered Diagnoses (CCS)



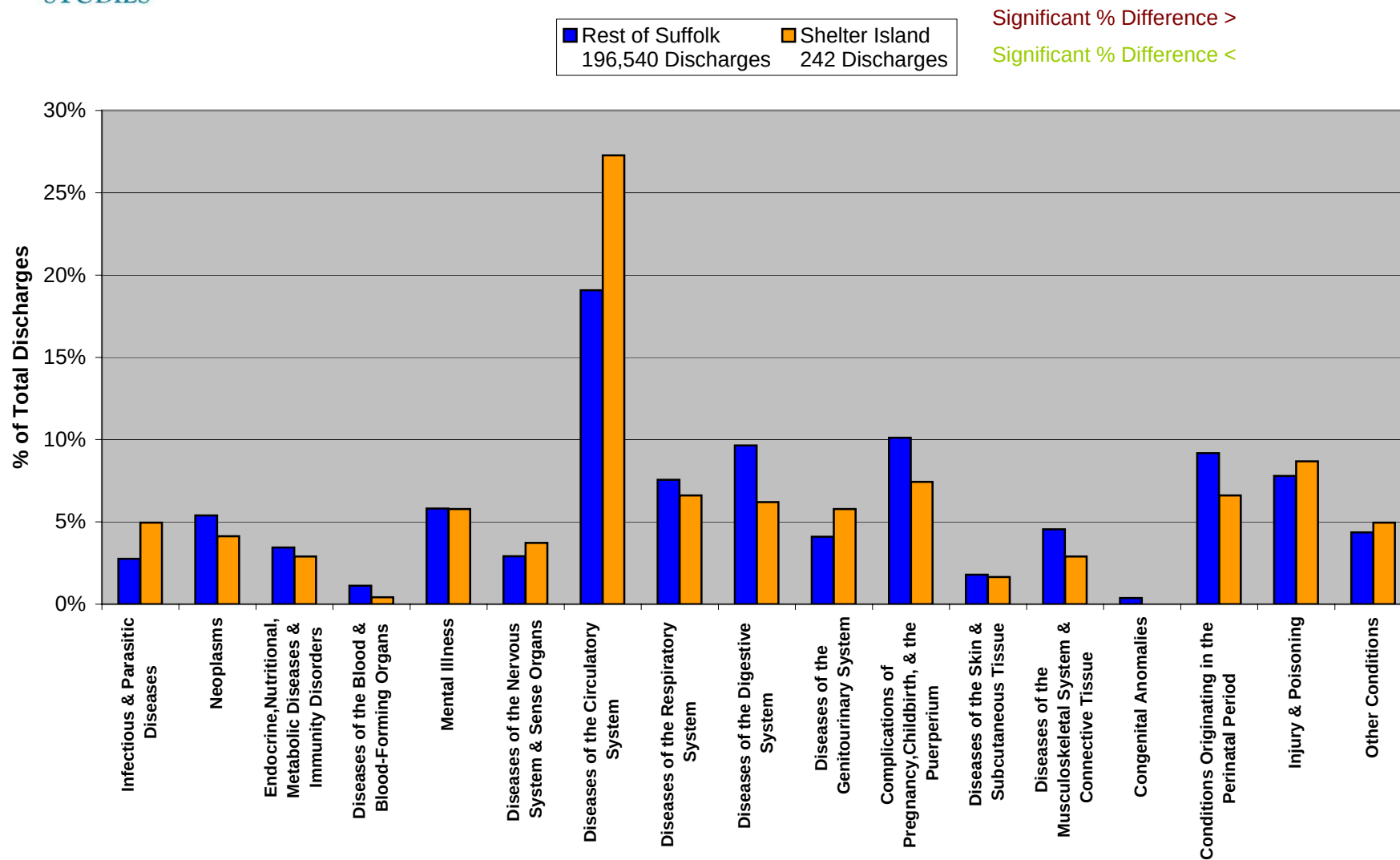
Setauket Hospital Discharges 2008 by Clustered Diagnoses (CCS)



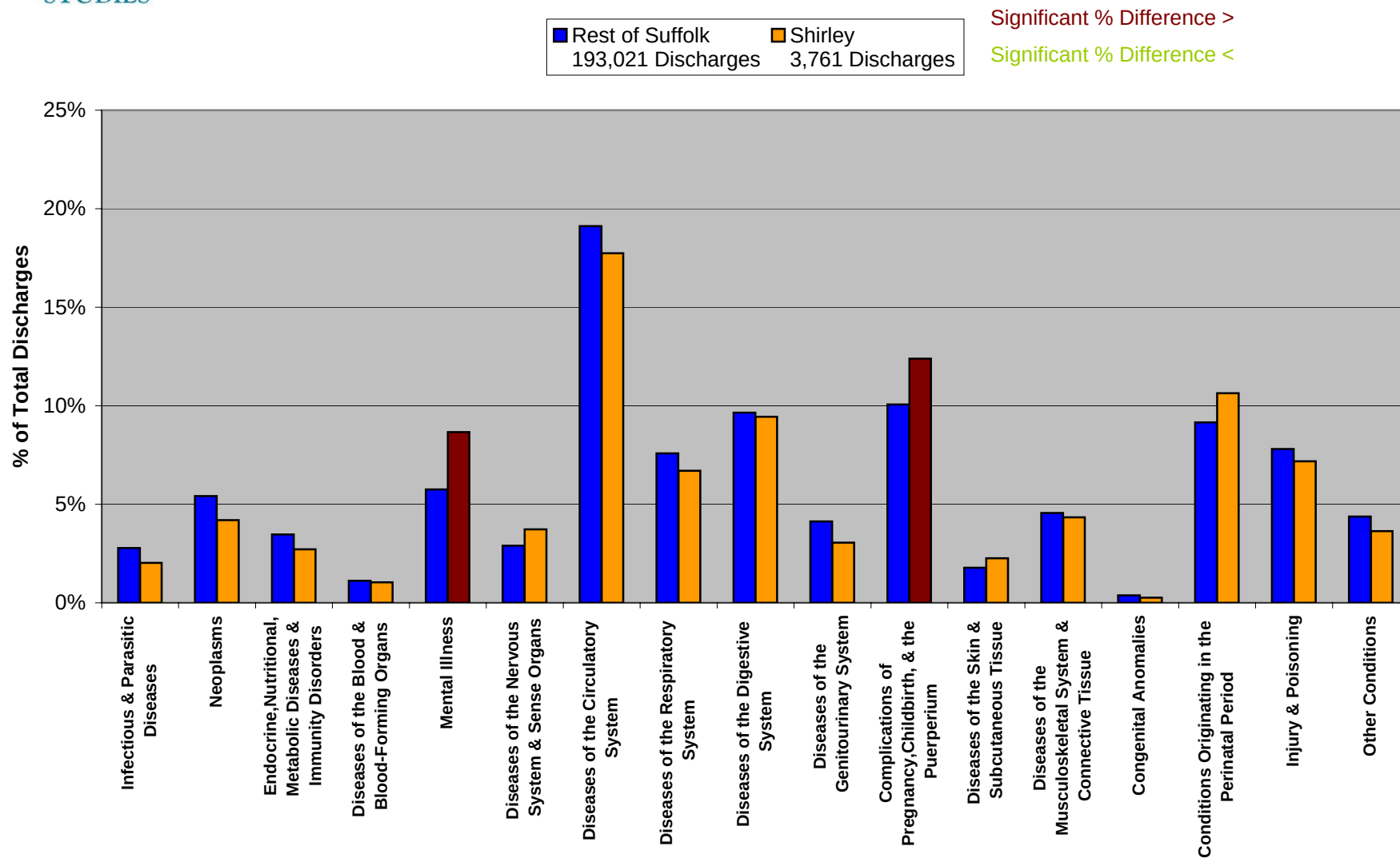
Shelter I Hgts Hospital Discharges 2008 by Clustered Diagnoses (CCS)



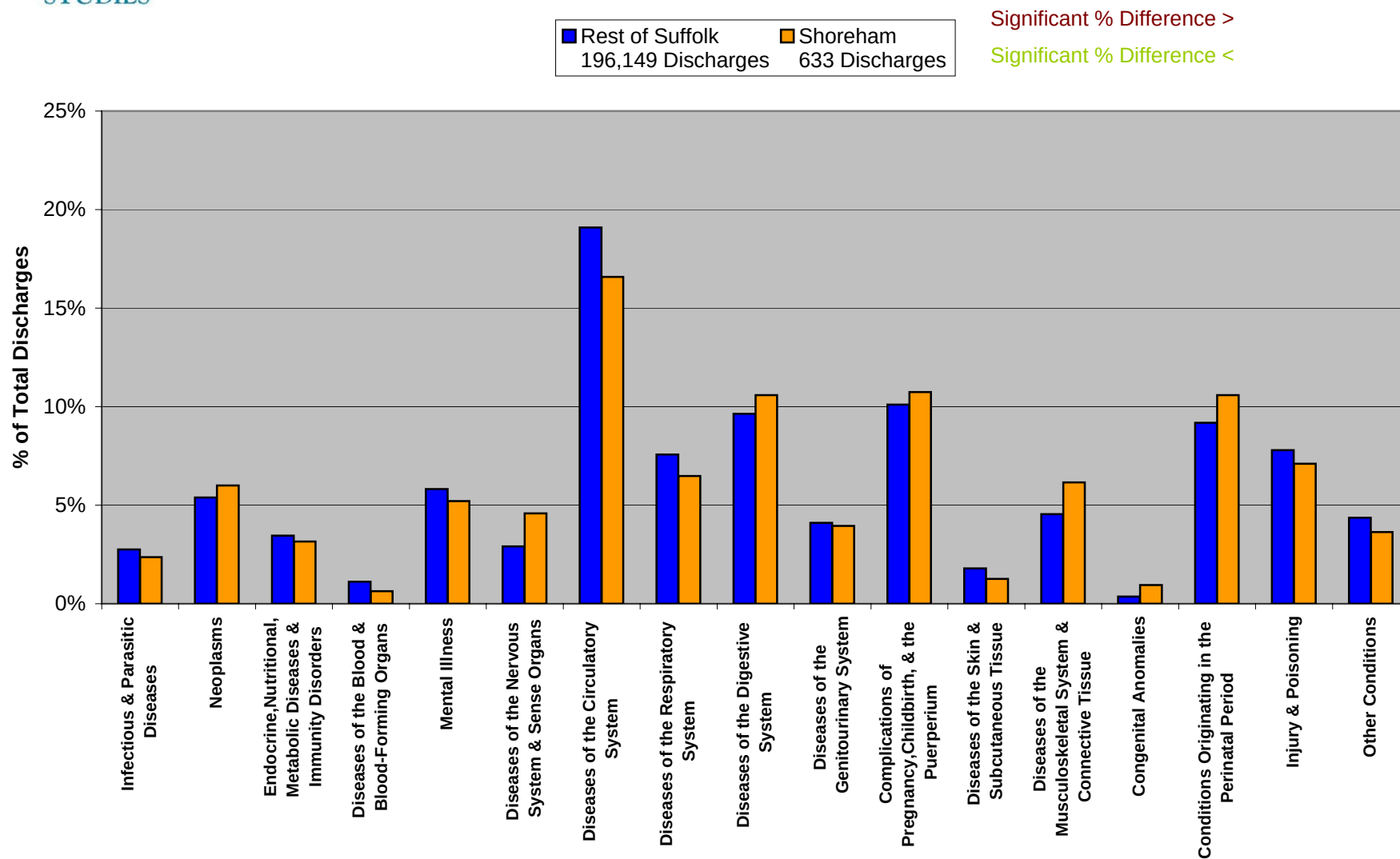
Shelter Island Hospital Discharges 2008 by Clustered Diagnoses (CCS)



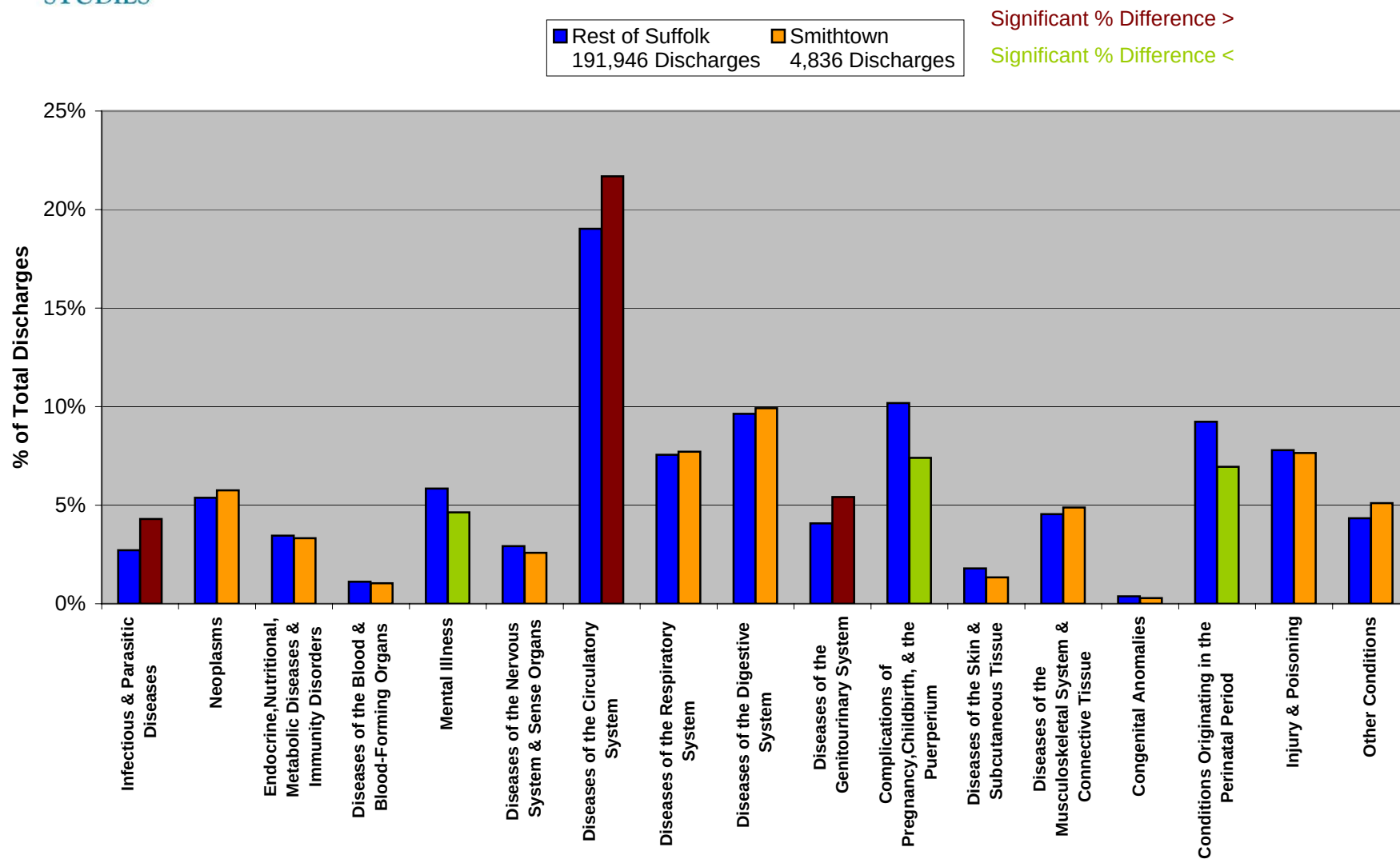
Shirley Hospital Discharges 2008 by Clustered Diagnoses (CCS)



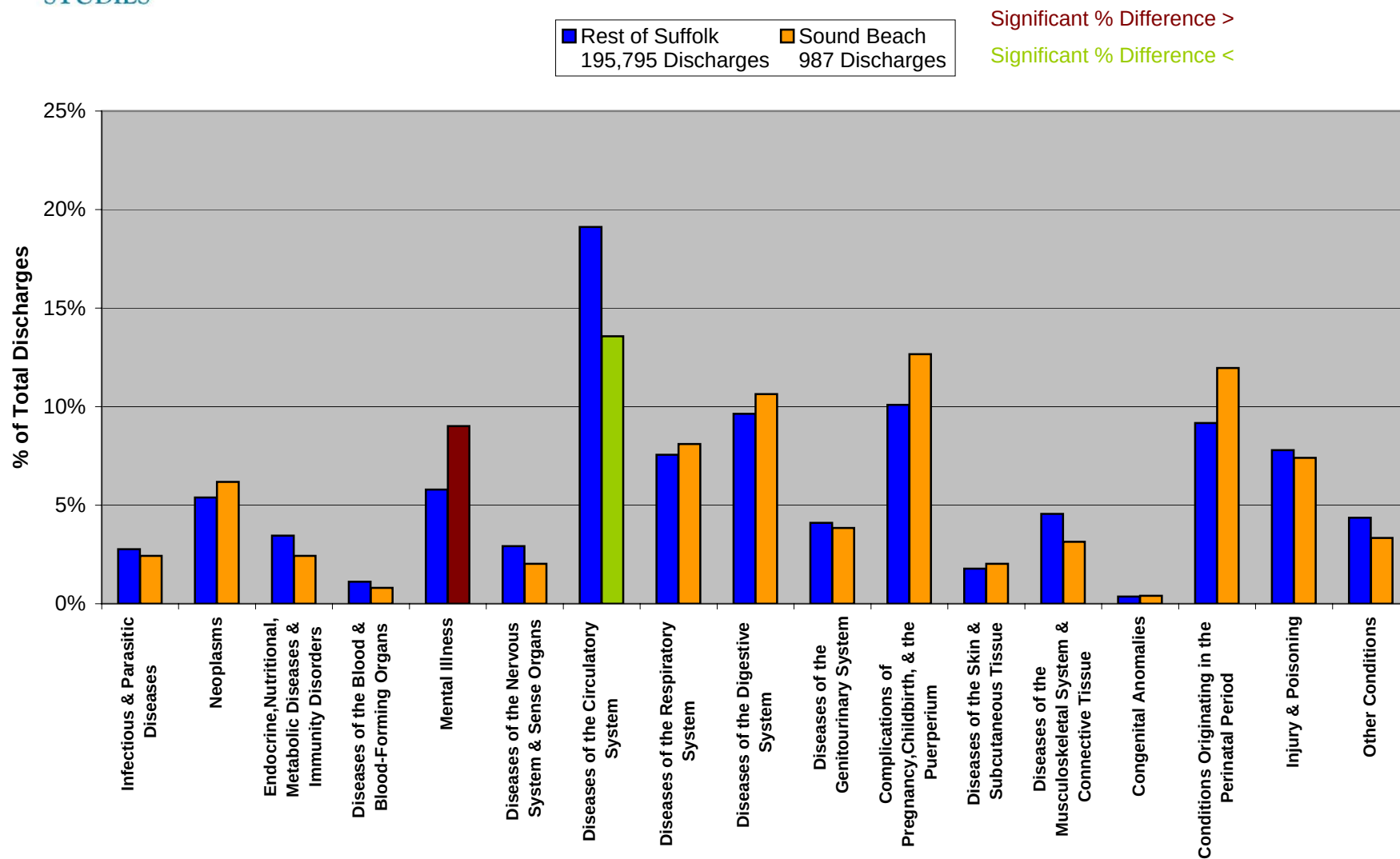
Shoreham Hospital Discharges 2008 by Clustered Diagnoses (CCS)



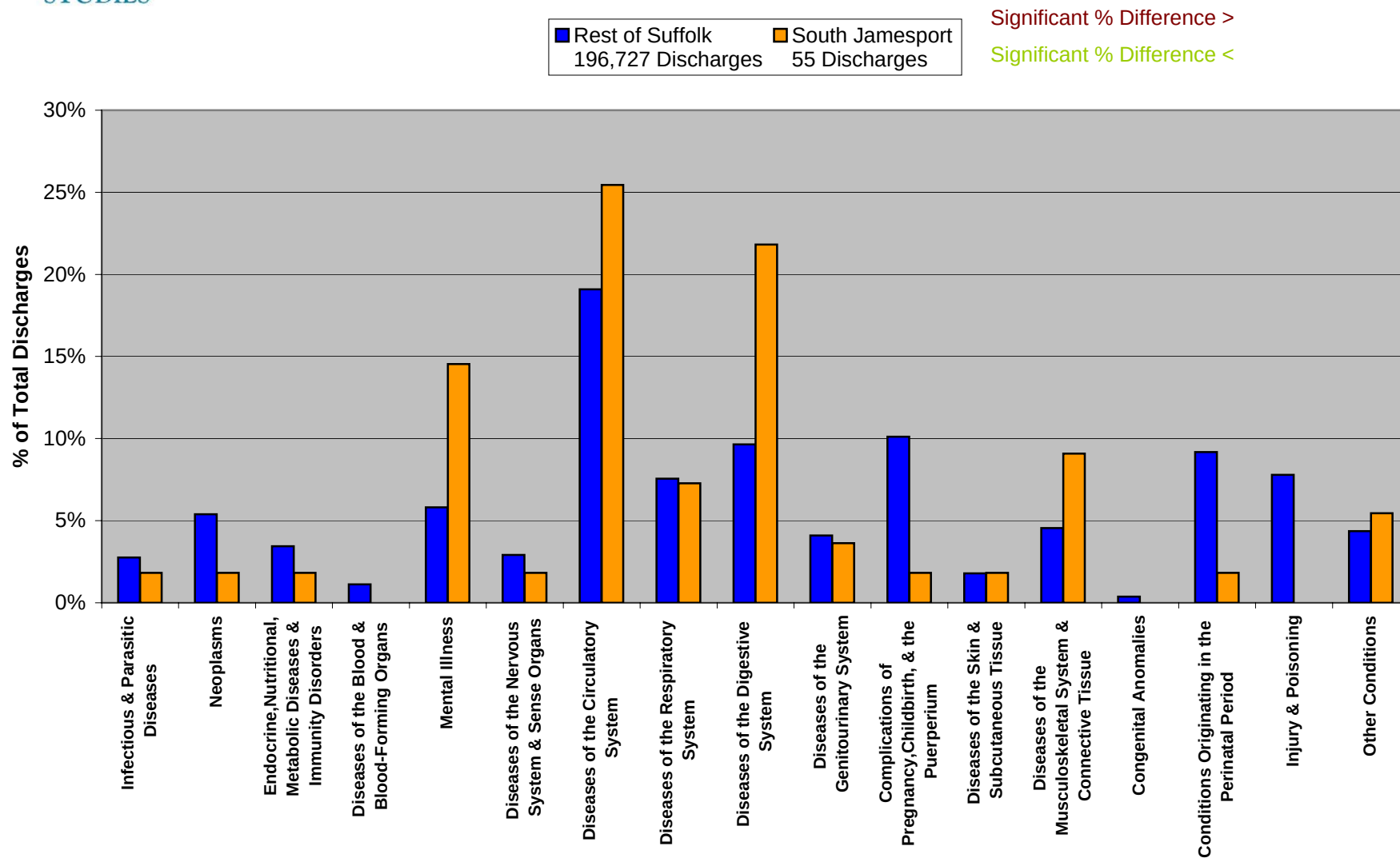
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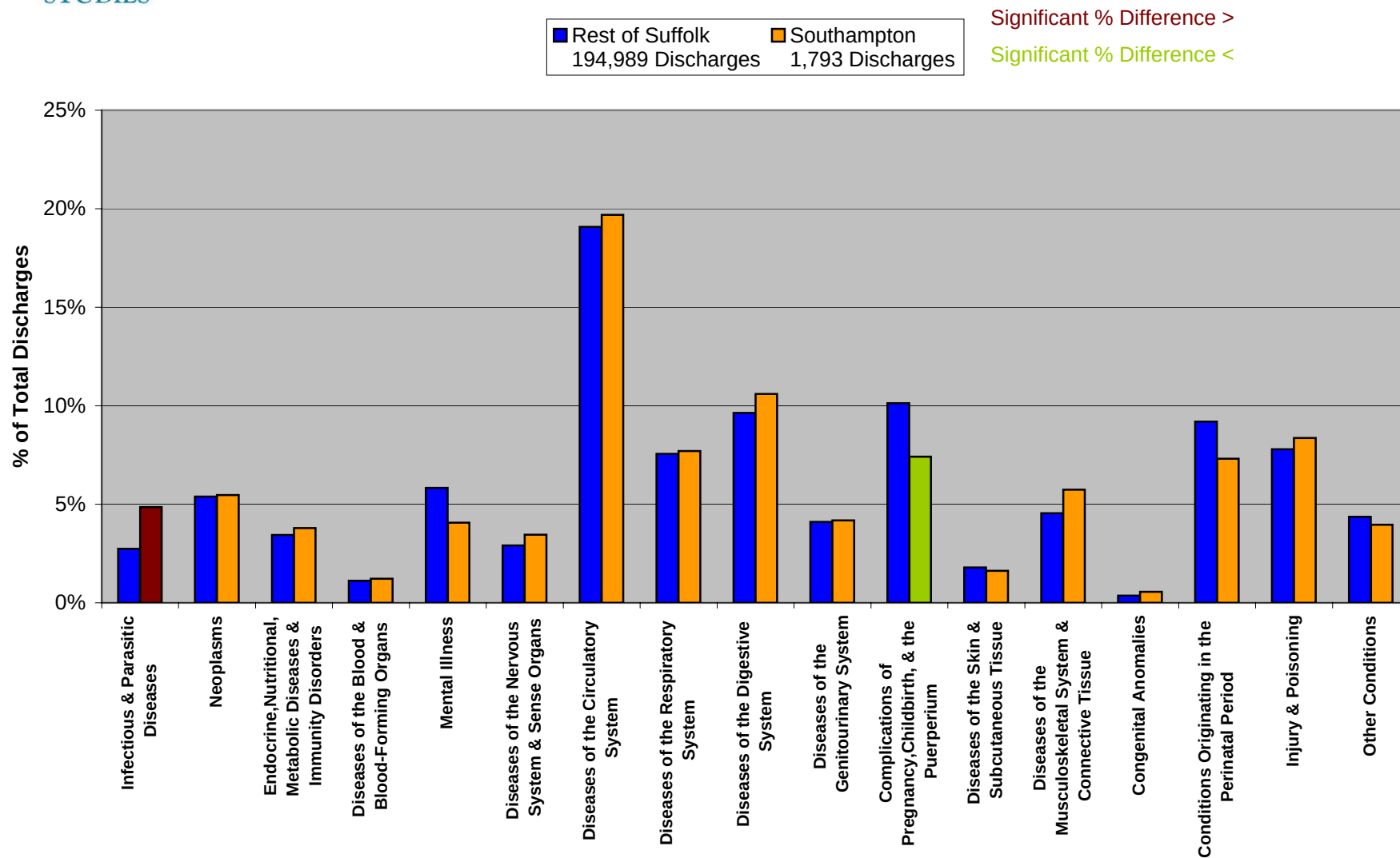
Sound Beach Hospital Discharges 2008 by Clustered Diagnoses (CCS)



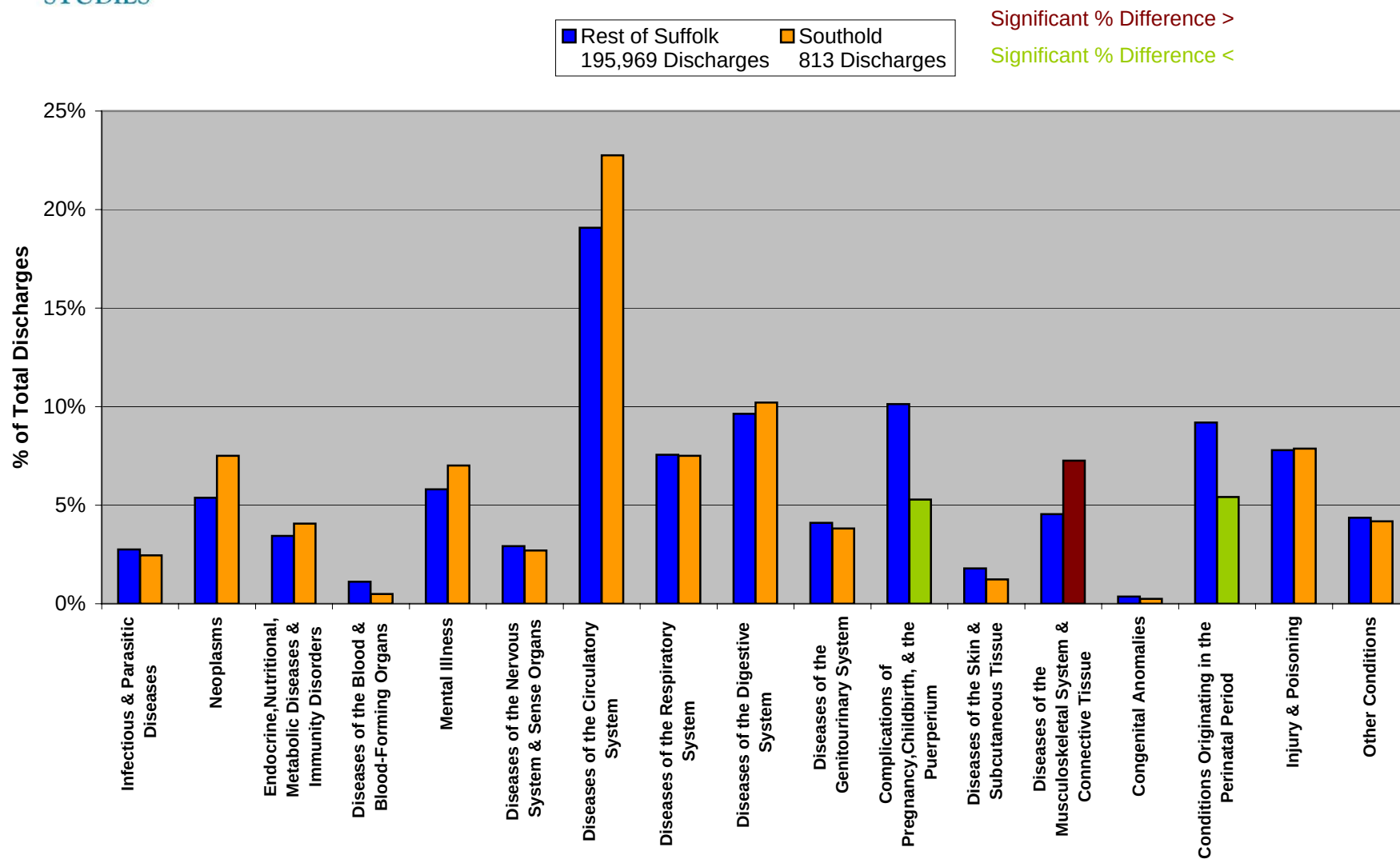
South Jamesport Hospital Discharges 2008 by Clustered Diagnoses (CCS)



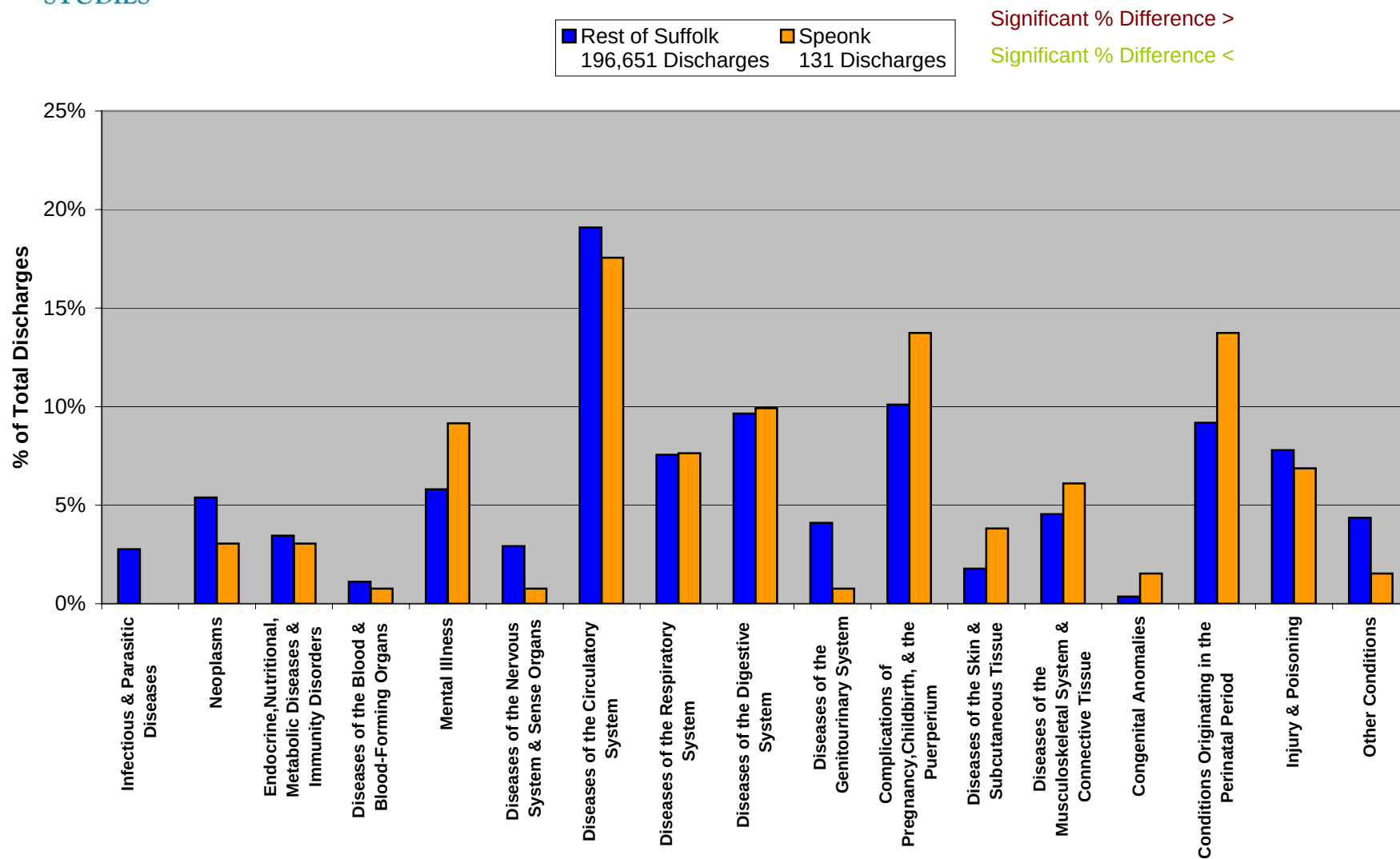
Southampton Hospital Discharges 2008 by Clustered Diagnoses (CCS)



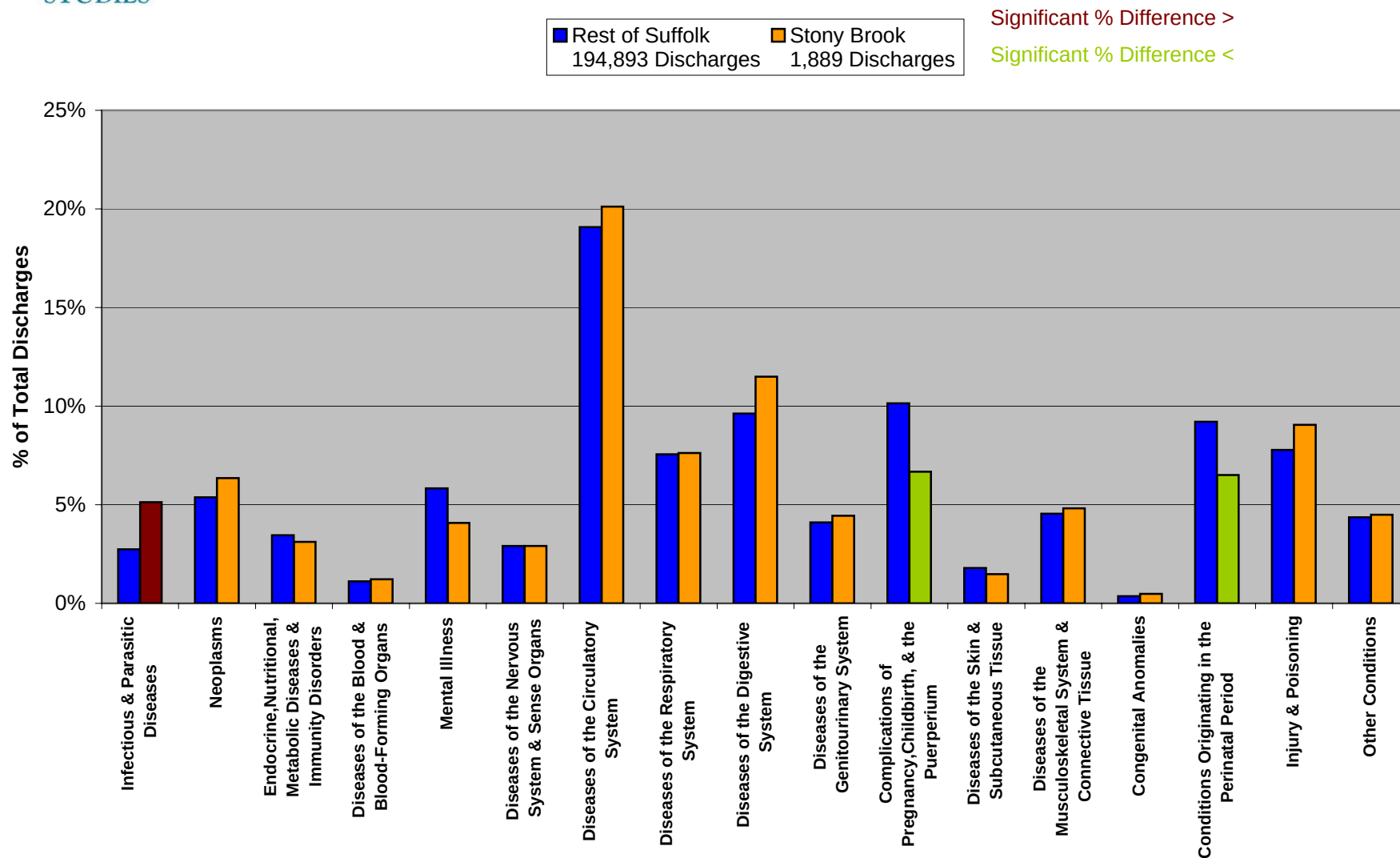
Southold Hospital Discharges 2008 by Clustered Diagnoses (CCS)



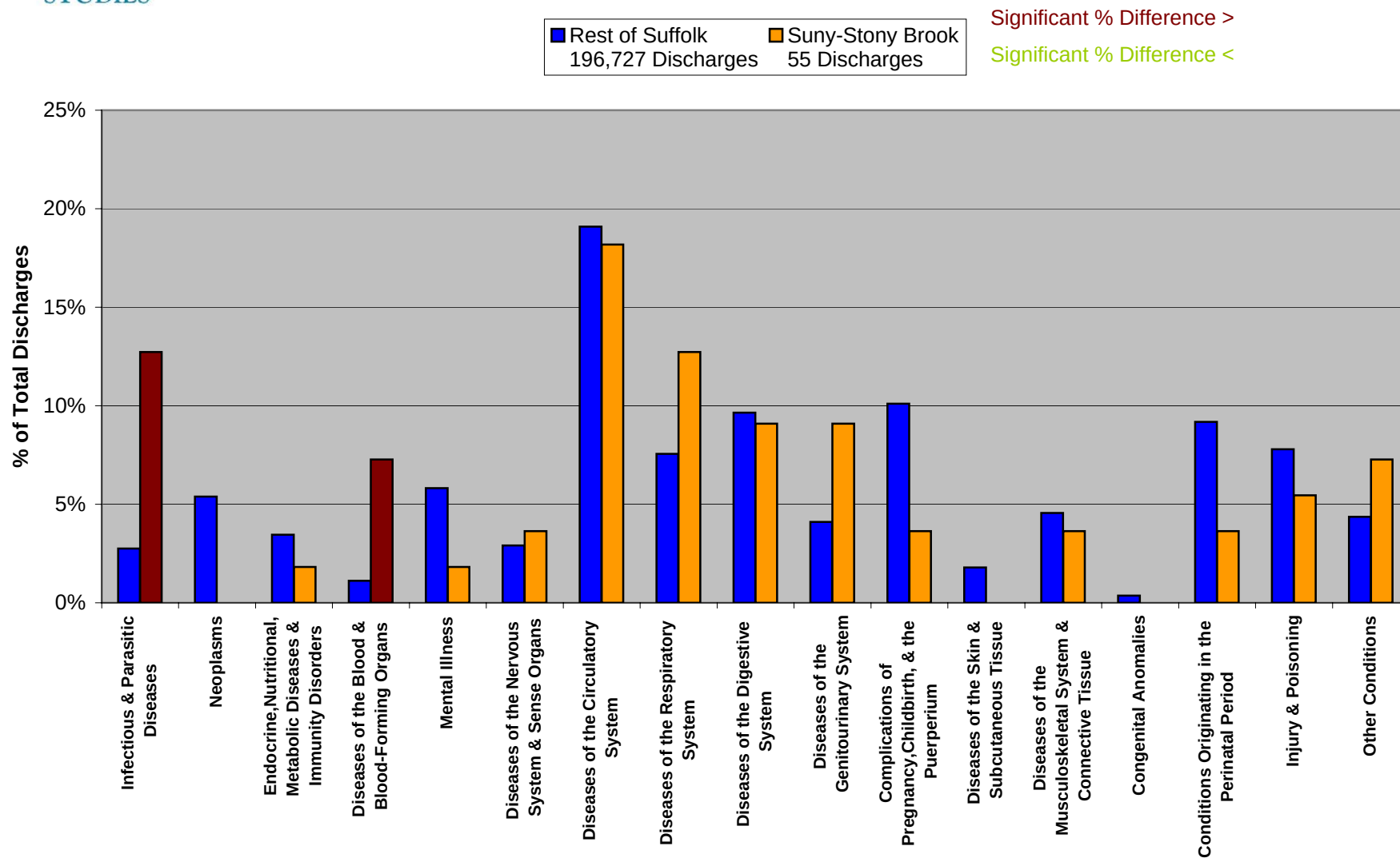
Speonk Hospital Discharges 2008 by Clustered Diagnoses (CCS)



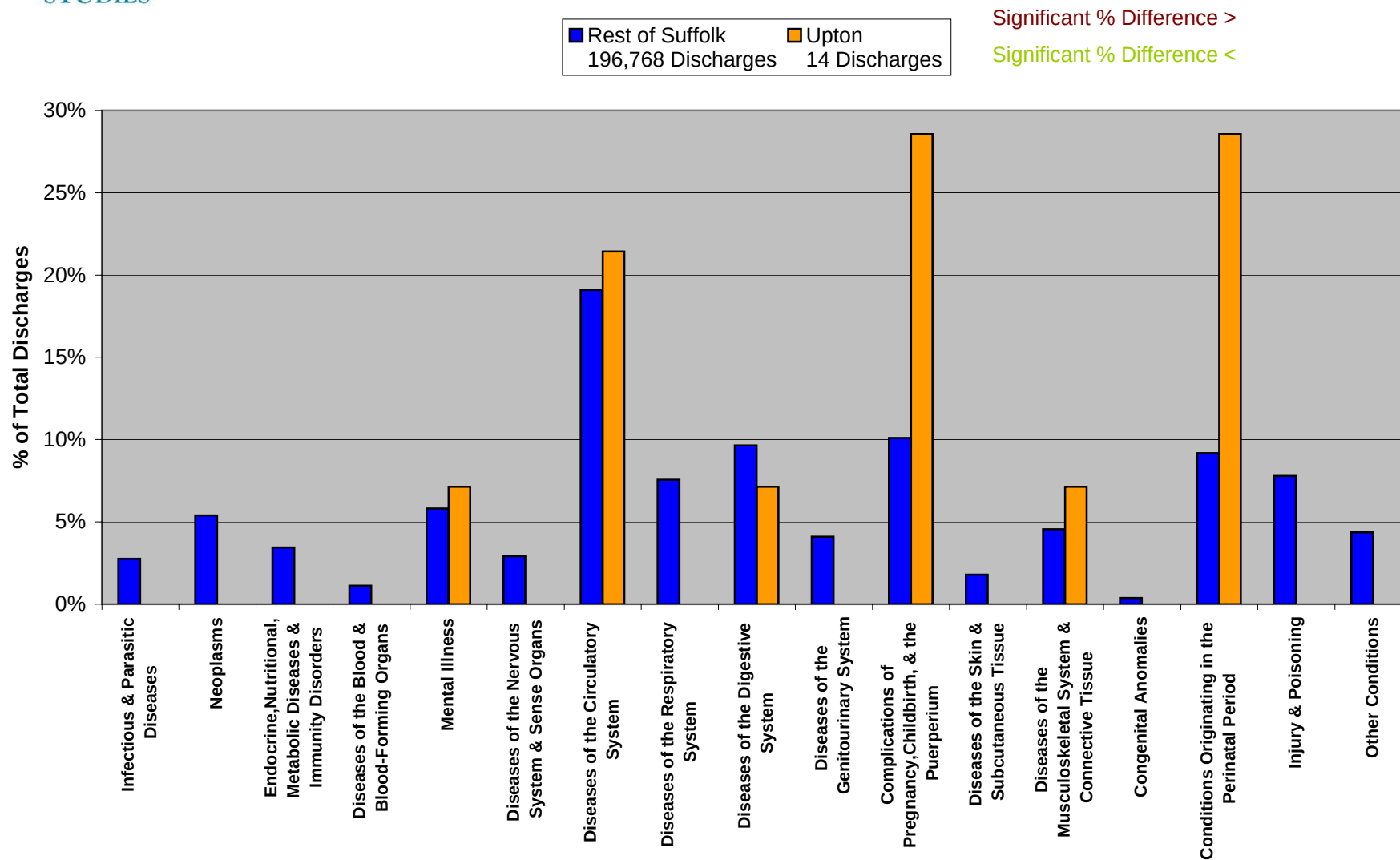
Stony Brook **Hospital Discharges 2008 by Clustered Diagnoses (CCS)**



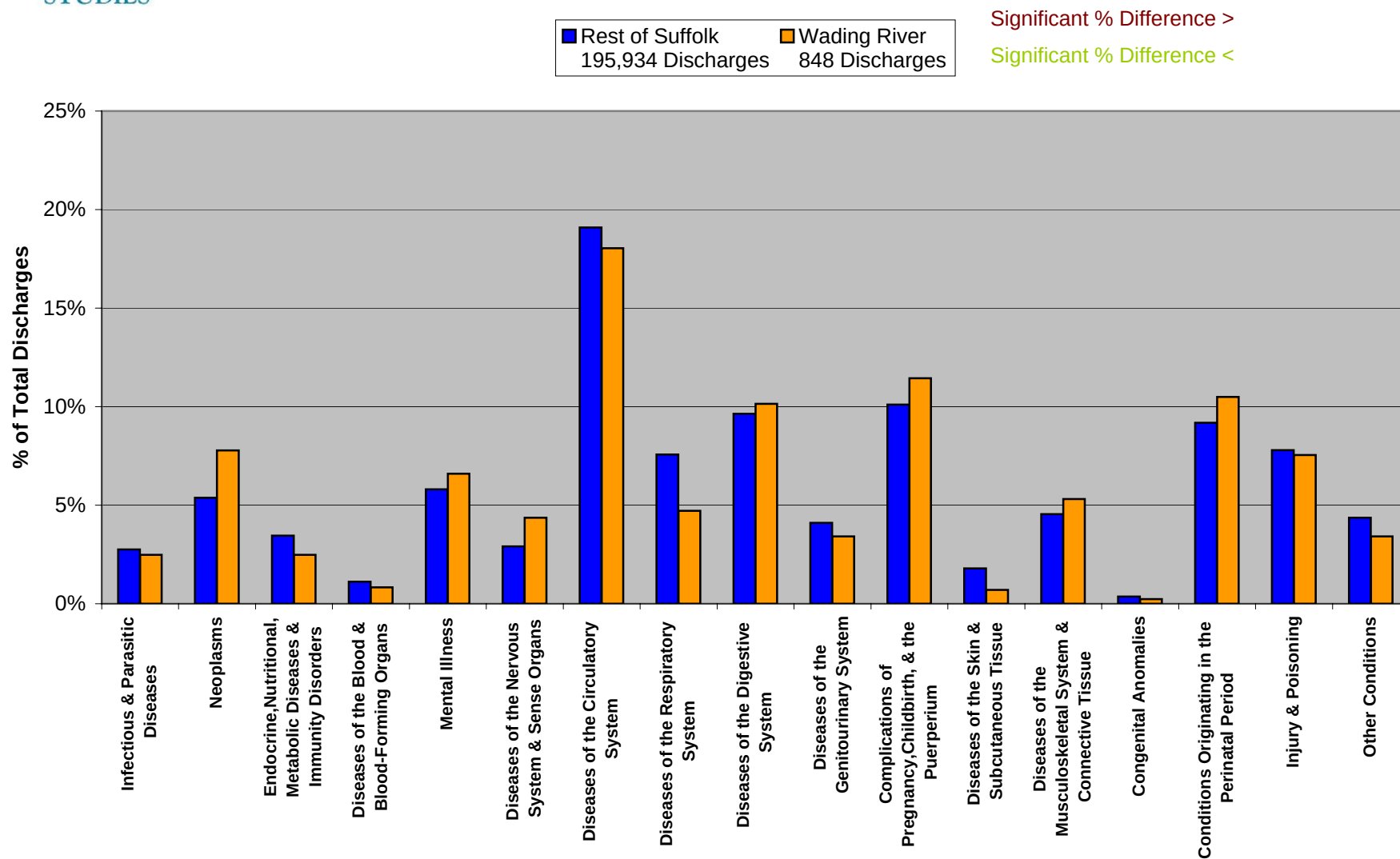
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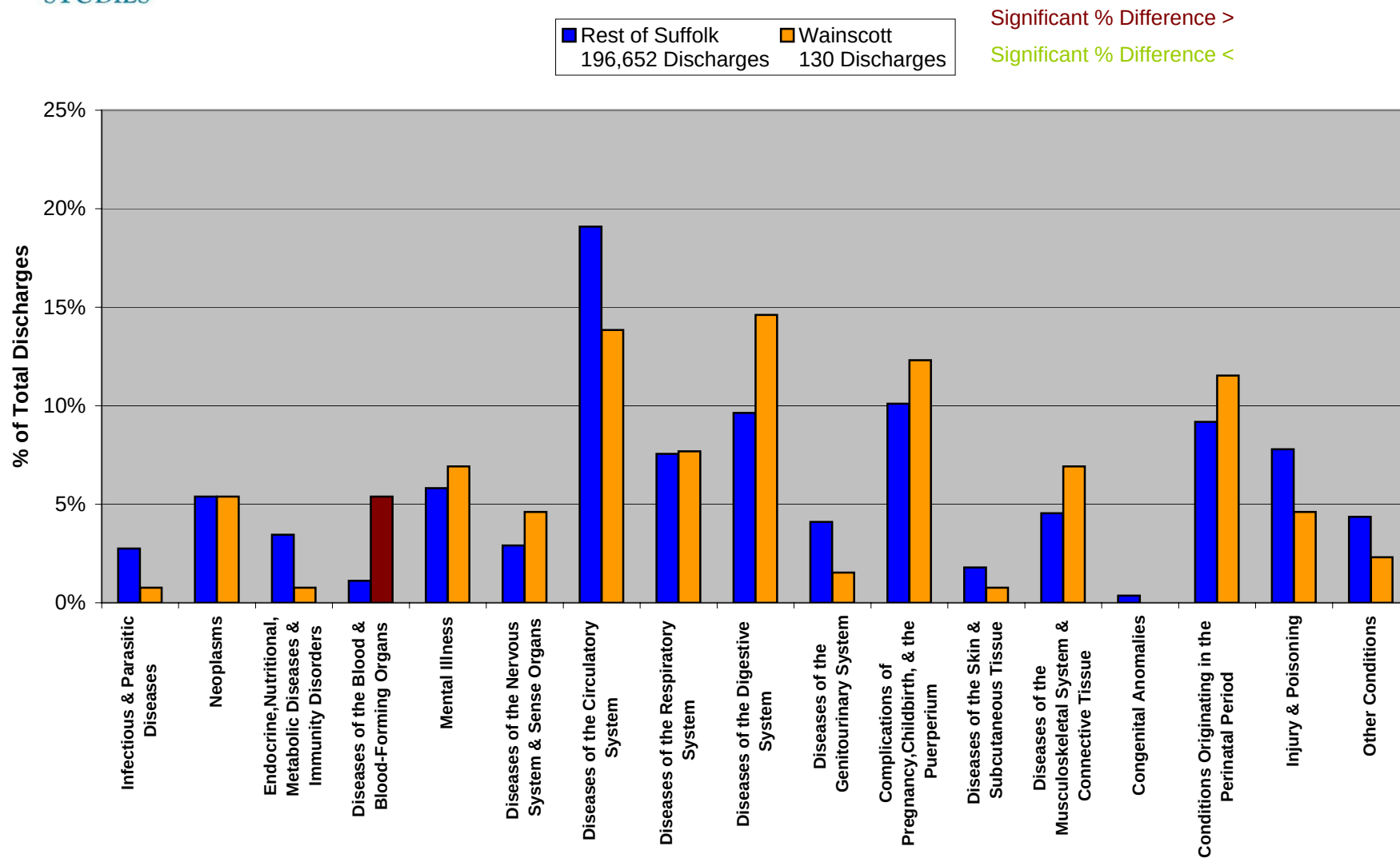
Upton Hospital Discharges 2008 by Clustered Diagnoses (CCS)



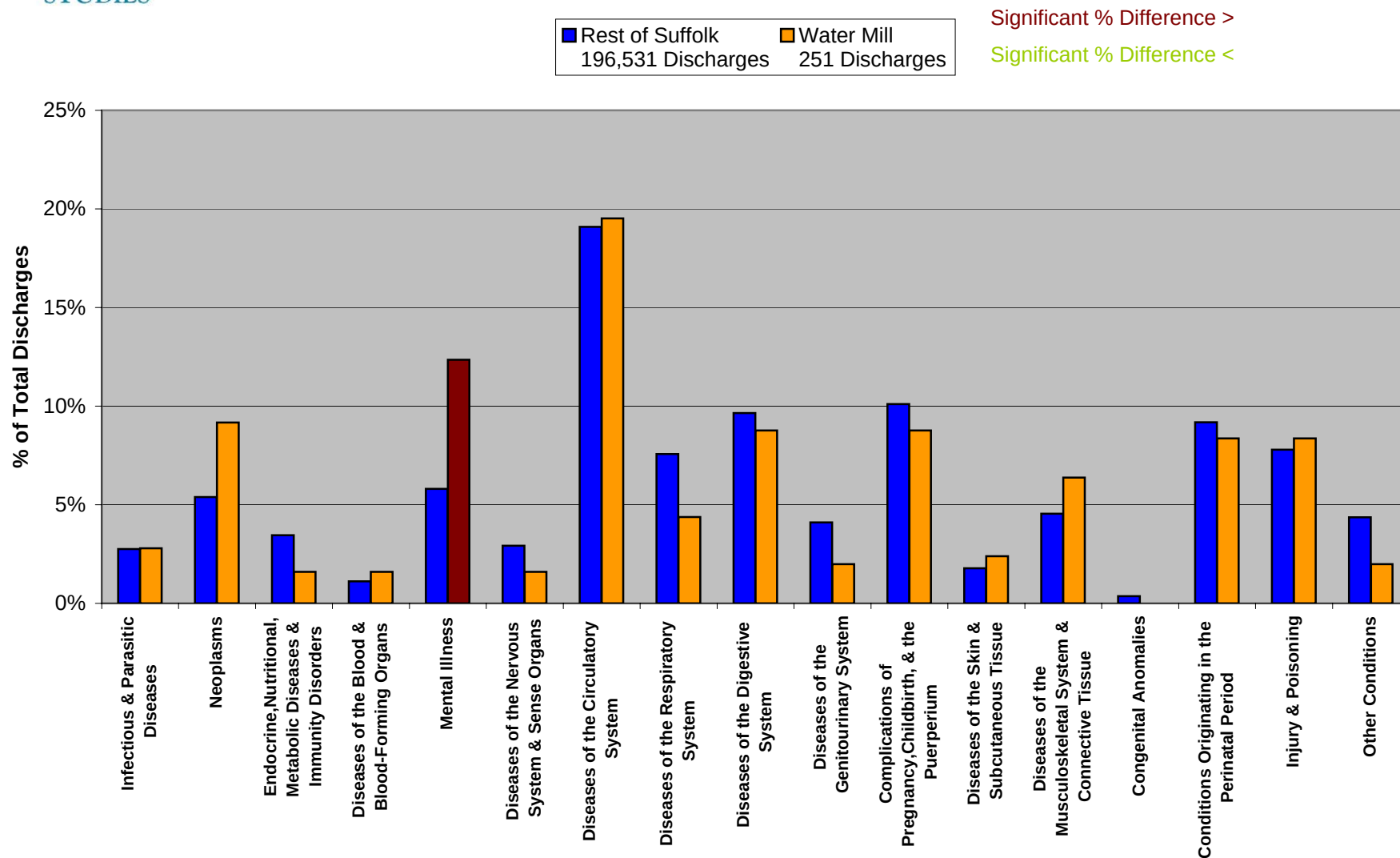
Wading River Hospital Discharges 2008 by Clustered Diagnoses (CCS)



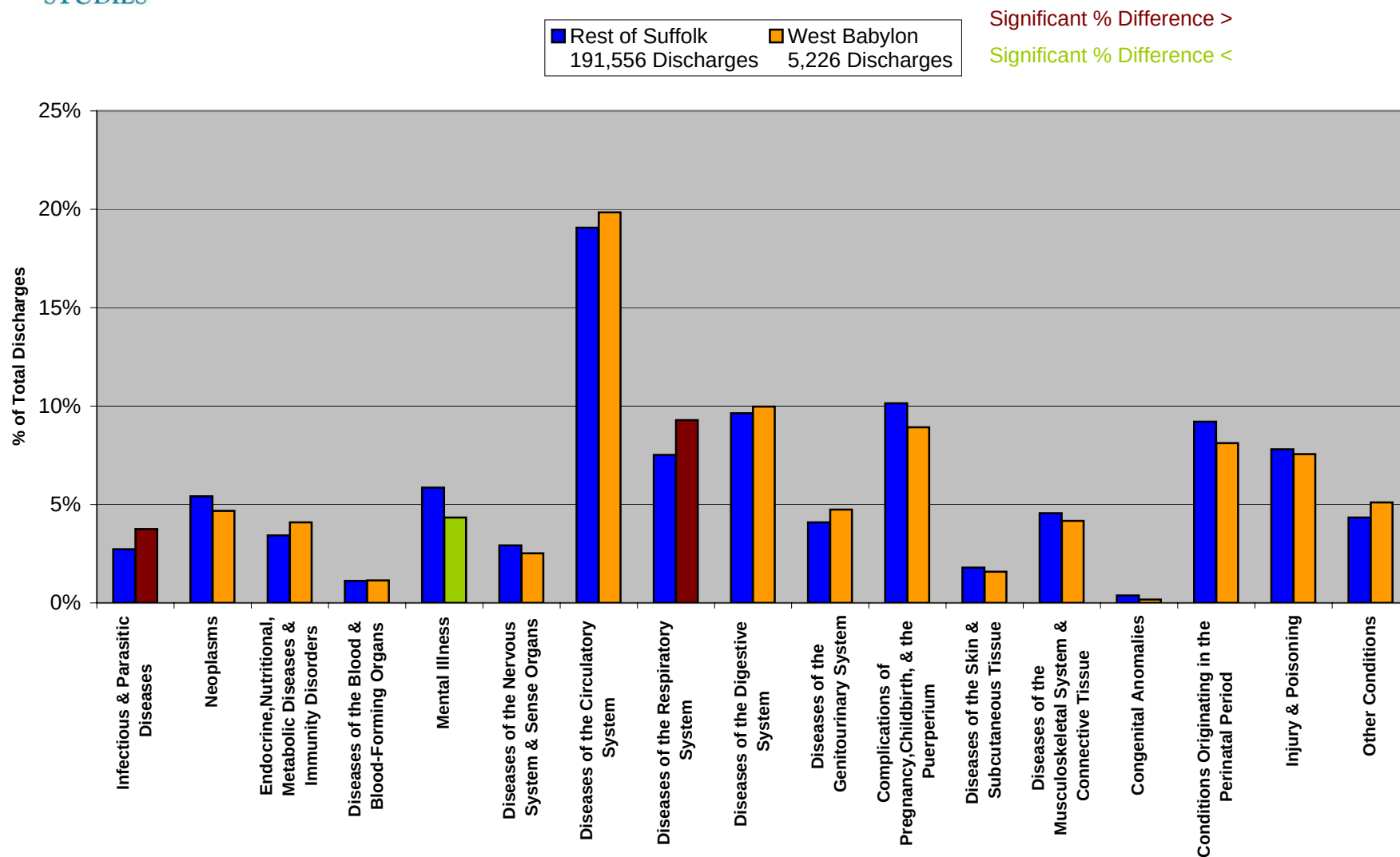
Wainscott Hospital Discharges 2008 by Clustered Diagnoses (CCS)



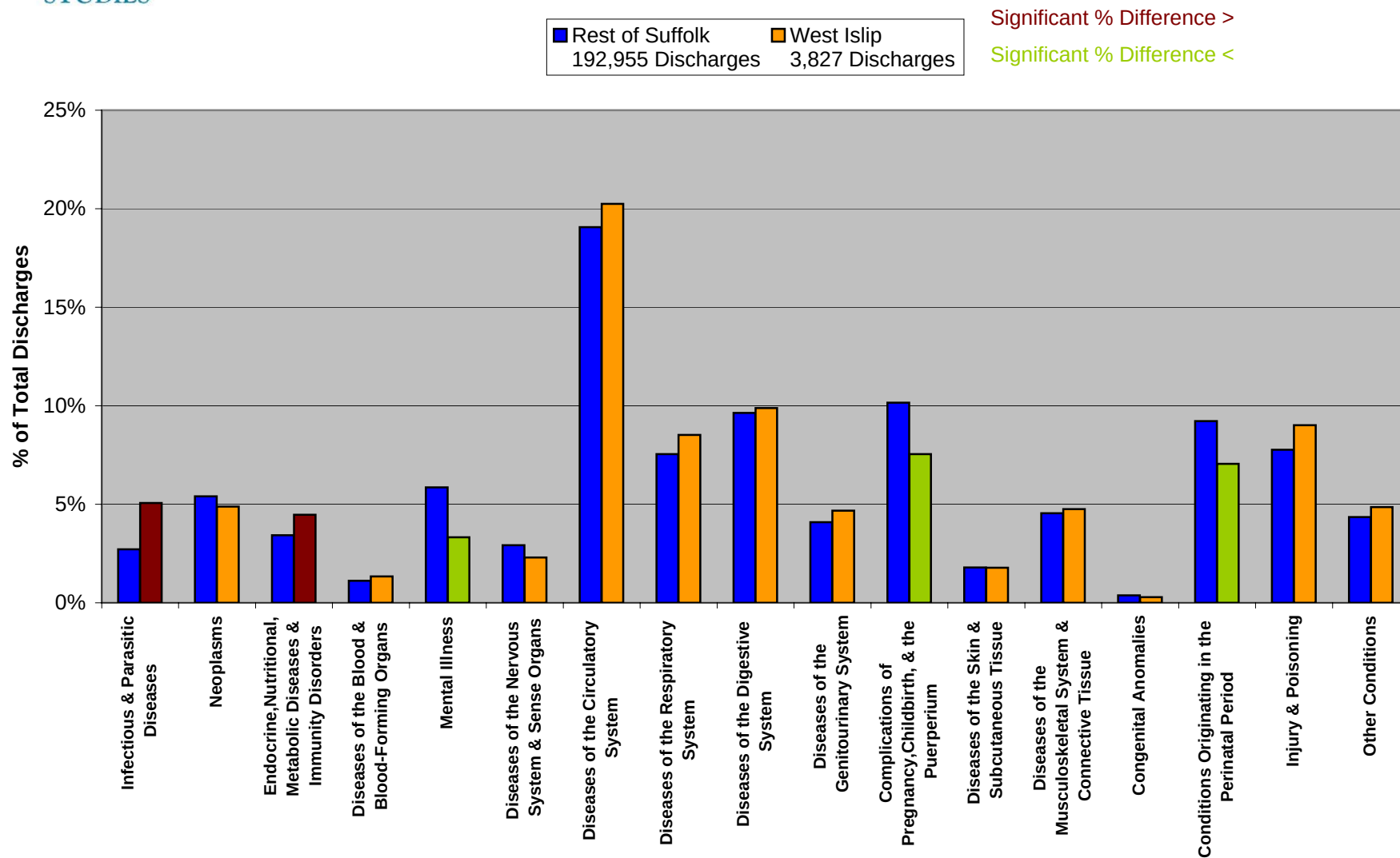
Water Mill Hospital Discharges 2008 by Clustered Diagnoses (CCS)



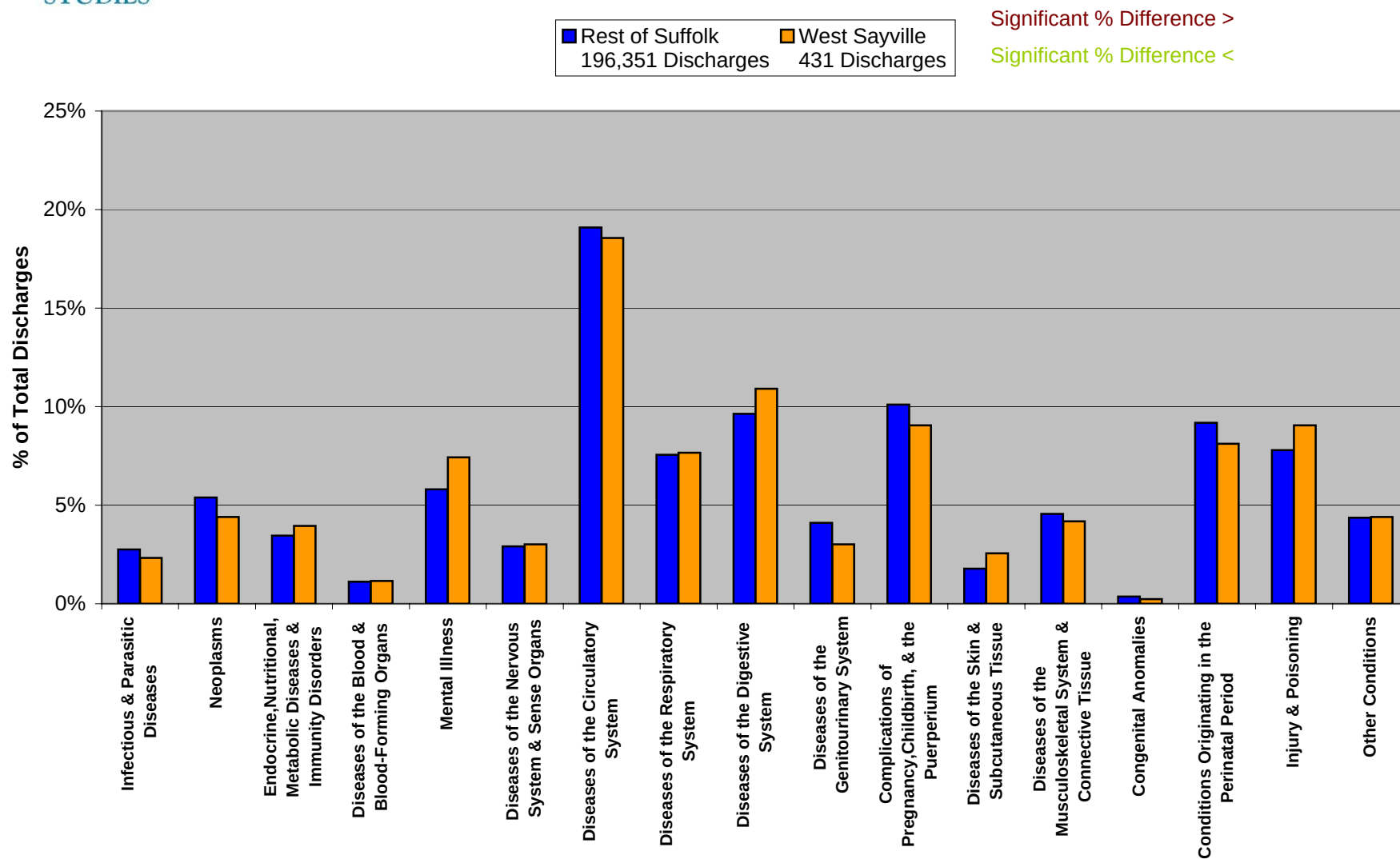
West Babylon Hospital Discharges 2008 by Clustered Diagnoses (CCS)



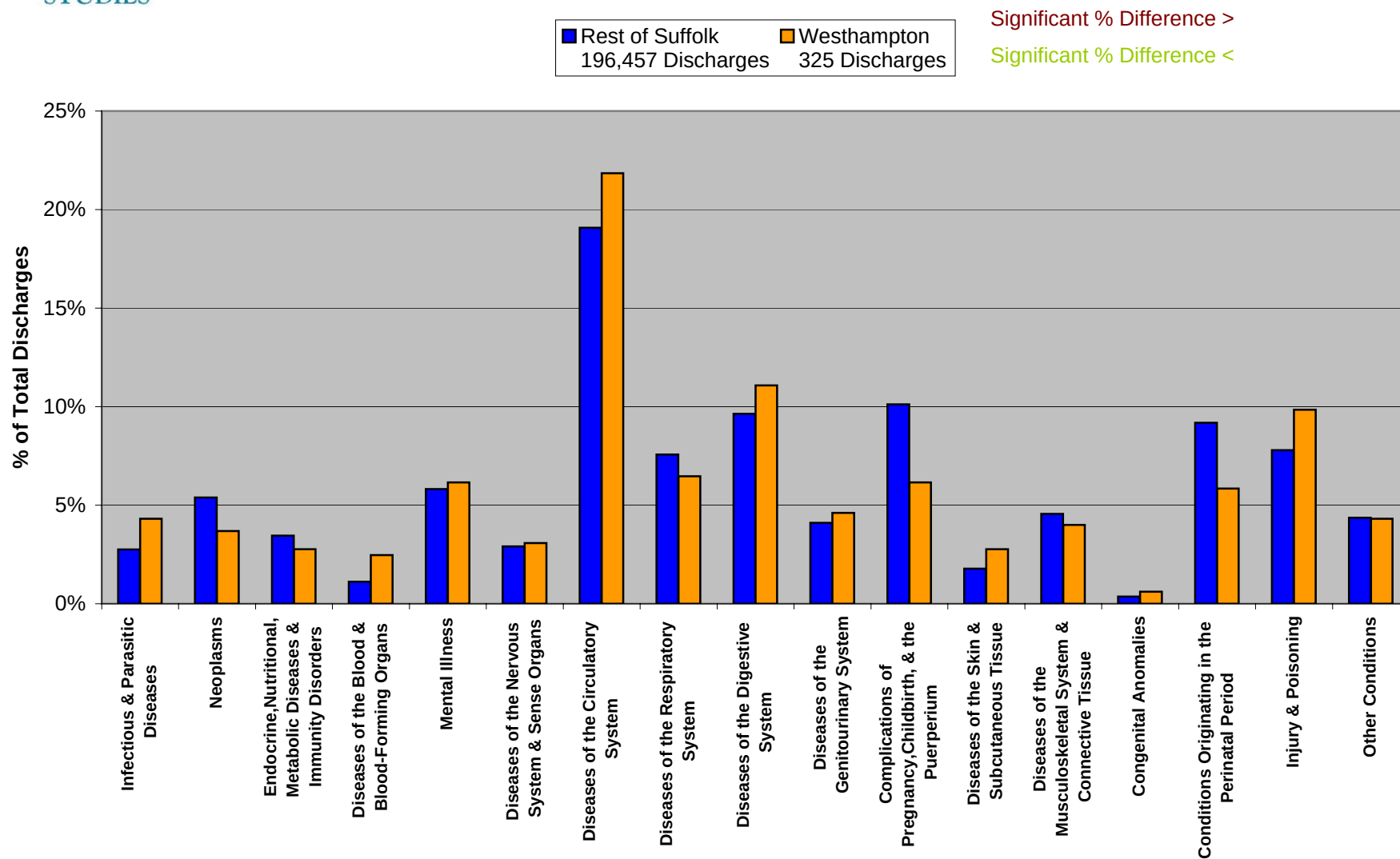
West Islip Hospital Discharges 2008 by Clustered Diagnoses (CCS)



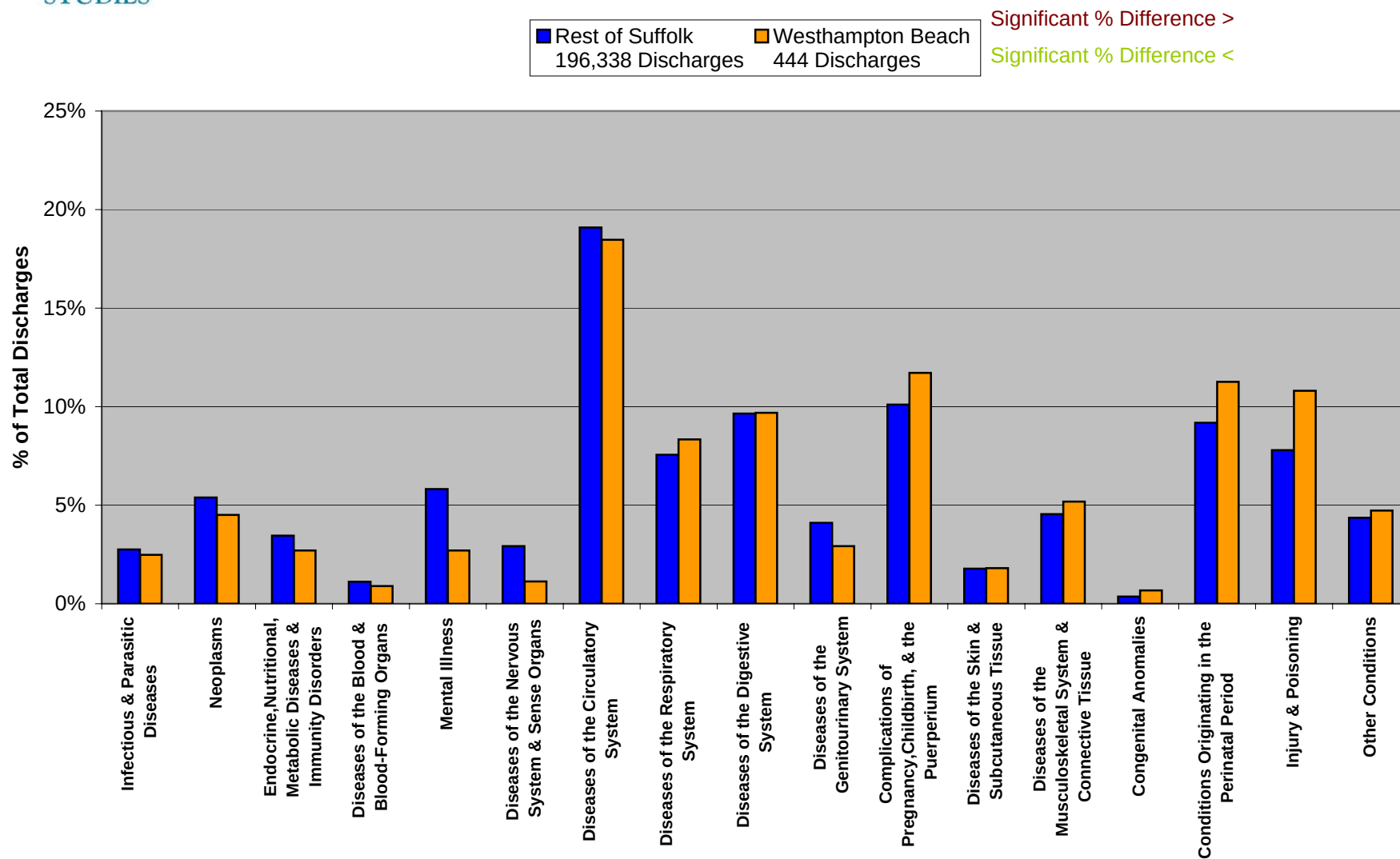
West Sayville Hospital Discharges 2008 by Clustered Diagnoses (CCS)



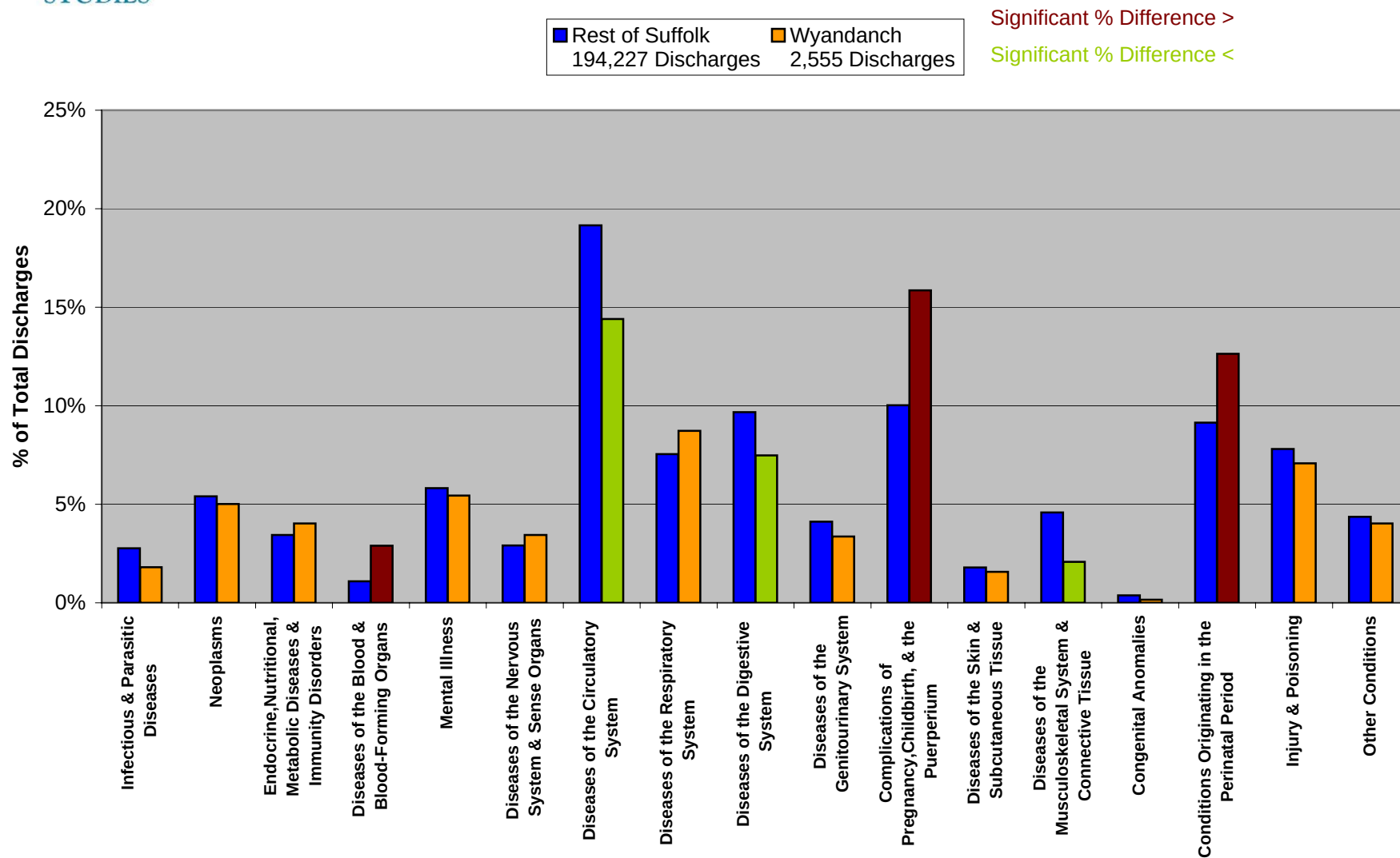
Westhampton Hospital Discharges 2008 by Clustered Diagnoses (CCS)



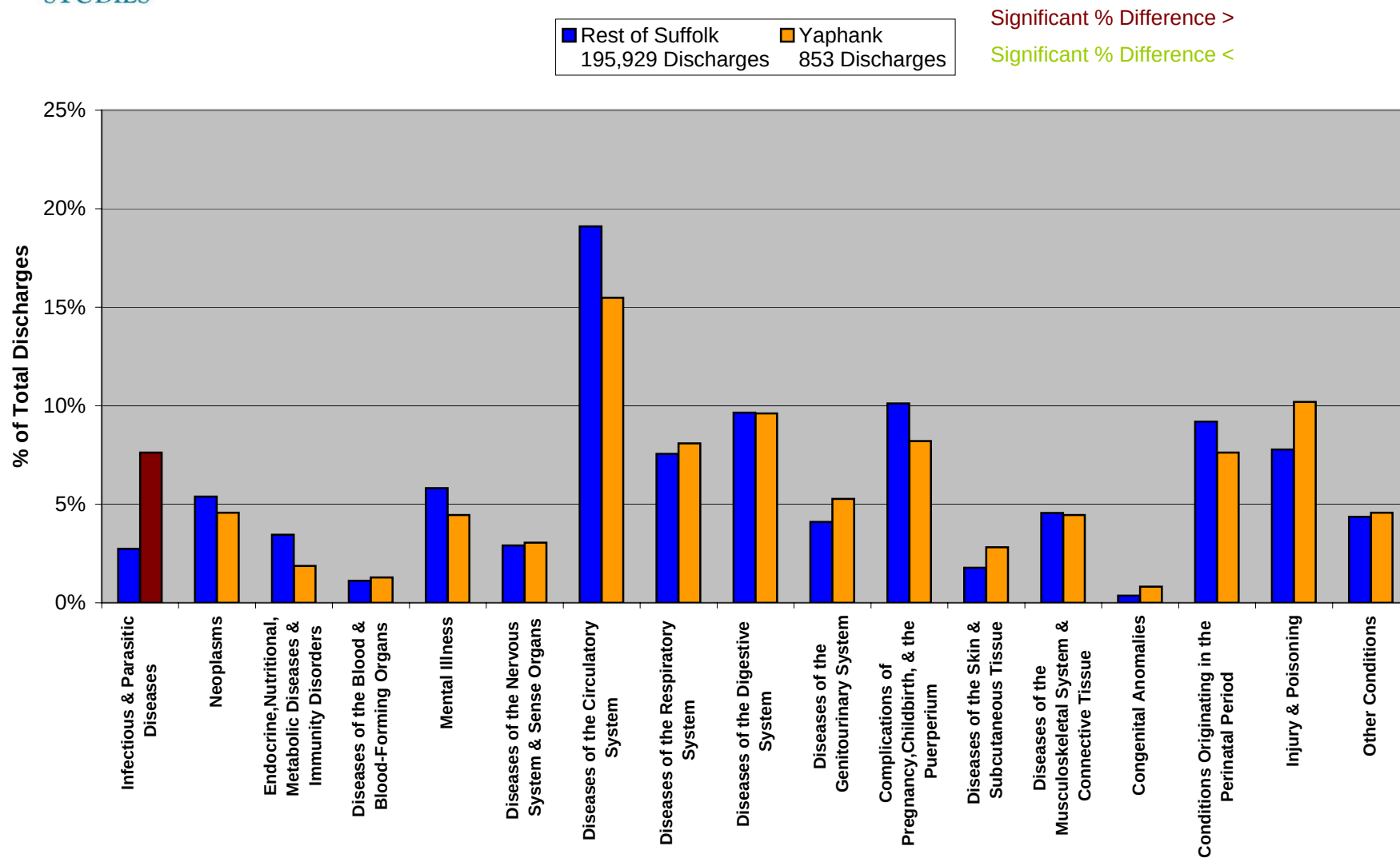
Westhampton Beach Hospital Discharges 2008 by Clustered Diagnoses (CCS)



Wyandanch Hospital Discharges 2008 by Clustered Diagnoses (CCS)



Yaphank Hospital Discharges 2008 by Clustered Diagnoses (CCS)



Methods & Sources of Data

The Clinical Classification Software (CCS) is a tool, developed at the Agency for Healthcare Research and Quality (AHRQ), for clustering patient diagnoses into a manageable number of clinically meaningful categories. CCS collapses diagnosis codes from the International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM), which contains more than 14,000 diagnosis codes, into 285 mutually exclusive principle diagnosis categories. These diagnosis categories are further mapped into 17 broader body systems or condition categories (e.g., "Diseases of the Circulatory System," "Mental Disorders," "Injury", etc.). The National and State Data used in this report come from AHRQ online databases for its Healthcare Cost and Utilization Project (HCUP). HCUP features online menu-driven tools that allow users to query its Nationwide Inpatient Sample (NIS) database and State Inpatient Database (SID). All National and State data used in this report came from online queries of the NIS and SID 2008 databases. County data for Nassau and Suffolk was taken from the New York State Department of Health's Statewide Planning and Research Cooperative System (SPARCS) that, among other data, collects patient level detail on every inpatient stay by County and Community resident level (zip code). County data from SPARCS was then used in the CCS software to make it compatible with National and State level data. All demographic data was also obtained in the same manner. Comparison of each community (zip code level) with county by the CCS 17 condition categories was done by subtracting the community from the county total and turning both into a percentage of total discharges by condition categories. A two sample t-test between percents was then computed for each condition category to determine if the community was significantly different than the rest of the county. Since a large number of statistical tests were performed Bonferroni adjustment was applied.

**Nassau County
CCS Principal Diagnoses**

CCS Principal Diagnoses	Frequency	Percent	Cumulative Percent
Liveborn	14,827	8.1	8.1
Nonspecific chest pain	5,915	3.2	11.3
Coronary atherosclerosis and other heart disease	5,330	2.9	14.2
Cardiac dysrhythmias	5,166	2.8	17.0
Congestive heart failure; nonhypertensive	5,154	2.8	19.8
Septicemia (except in labor)	3,875	2.1	21.9
Pneumonia (except that caused by tuberculosis or sexually transmitted disea	3,737	2.0	24.0
Mood disorders	3,478	1.9	25.8
Rehabilitation care; fitting of prostheses; and adjustment of devices	3,378	1.8	27.7
Syncope	3,333	1.8	29.5
Osteoarthritis	3,058	1.7	31.2
Other complications of birth; puerperium affecting management of mother	2,864	1.6	32.7
Complication of device; implant or graft	2,821	1.5	34.3
Spondylosis; intervertebral disc disorders; other back problems	2,757	1.5	35.8
Fluid and electrolyte disorders	2,754	1.5	37.3
Skin and subcutaneous tissue infections	2,745	1.5	38.8
Acute myocardial infarction	2,741	1.5	40.2
Chronic obstructive pulmonary disease and bronchiectasis	2,579	1.4	41.6
OB-related trauma to perineum and vulva	2,552	1.4	43.0
Biliary tract disease	2,533	1.4	44.4
Urinary tract infections	2,514	1.4	45.8
Alcohol-related disorders	2,403	1.3	47.1
Complications of surgical procedures or medical care	2,325	1.3	48.4
Previous C-section	2,301	1.3	49.6
Acute cerebrovascular disease	2,267	1.2	50.8
Diabetes mellitus with complications	2,183	1.2	52.0
Substance-related disorders	1,946	1.1	53.1
Gastrointestinal hemorrhage	1,929	1.0	54.1
Other complications of pregnancy	1,922	1.0	55.2
Epilepsy; convulsions	1,908	1.0	56.2
Asthma	1,882	1.0	57.2
Diverticulosis and diverticulitis	1,871	1.0	58.3
Schizophrenia and other psychotic disorders	1,771	1.0	59.2
Acute and unspecified renal failure	1,662	0.9	60.1
Appendicitis and other appendiceal conditions	1,591	0.9	61.0

**Nassau County
CCS Principal Diagnoses**

CCS Principal Diagnoses	Frequency	Percent	Cumulative Percent
Secondary malignancies	1,560	0.8	61.9
Fracture of neck of femur (hip)	1,489	0.8	62.7
Intestinal obstruction without hernia	1,485	0.8	63.5
Transient cerebral ischemia	1,345	0.7	64.2
Intestinal infection	1,299	0.7	64.9
Deficiency and other anemia	1,286	0.7	65.6
Intracranial injury	1,197	0.7	66.3
Other nervous system disorders	1,191	0.6	66.9
Prolonged pregnancy	1,106	0.6	67.5
Abdominal hernia	1,092	0.6	68.1
Respiratory failure; insufficiency; arrest (adult)	1,081	0.6	68.7
Maintenance chemotherapy; radiotherapy	1,075	0.6	69.3
Other nutritional; endocrine; and metabolic disorders	1,015	0.6	69.8
Calculus of urinary tract	995	0.5	70.4
Other fractures	993	0.5	70.9
Fracture of lower limb	988	0.5	71.5
Other and unspecified benign neoplasm	983	0.5	72.0
Noninfectious gastroenteritis	982	0.5	72.5
Other gastrointestinal disorders	974	0.5	73.1
Benign neoplasm of uterus	959	0.5	73.6
Pancreatic disorders (not diabetes)	920	0.5	74.1
Polyhydramnios and other problems of amniotic cavity	920	0.5	74.6
Phlebitis; thrombophlebitis and thromboembolism	898	0.5	75.1
Abdominal pain	890	0.5	75.5
Fracture of upper limb	849	0.5	76.0
Normal pregnancy and/or delivery	811	0.4	76.5
Cancer of bronchus; lung	808	0.4	76.9
Early or threatened labor	798	0.4	77.3
Peripheral and visceral atherosclerosis	798	0.4	77.8
Heart valve disorders	793	0.4	78.2
Conduction disorders	783	0.4	78.6
Hypertension with complications and secondary hypertension	774	0.4	79.0
Residual codes; unclassified	762	0.4	79.5
Conditions associated with dizziness or vertigo	712	0.4	79.8
Fetal distress and abnormal forces of labor	710	0.4	80.2
Cancer of breast	701	0.4	80.6
Other circulatory disease	677	0.4	81.0

**Nassau County
CCS Principal Diagnoses**

CCS Principal Diagnoses	Frequency	Percent	Cumulative Percent
Other connective tissue disease	669	0.4	81.3
Other lower respiratory disease	660	0.4	81.7
Aspiration pneumonia; food/vomitus	653	0.4	82.1
Delirium, dementia, and amnesic and other cognitive disorders	650	0.4	82.4
Viral infection	649	0.4	82.8
Poisoning by other medications and drugs	649	0.4	83.1
Hypertension complicating pregnancy; childbirth and the puerperium	649	0.4	83.5
Regional enteritis and ulcerative colitis	631	0.3	83.8
Malposition; malpresentation	617	0.3	84.1
Other injuries and conditions due to external causes	581	0.3	84.5
Esophageal disorders	577	0.3	84.8
Acute bronchitis	558	0.3	85.1
Umbilical cord complication	548	0.3	85.4
Pulmonary heart disease	527	0.3	85.7
Cancer of colon	518	0.3	86.0
Peri-; endo-; and myocarditis; cardiomyopathy (except that caused by tuberc	500	0.3	86.2
Gastritis and duodenitis	495	0.3	86.5
Pleurisy; pneumothorax; pulmonary collapse	492	0.3	86.8
Essential hypertension	490	0.3	87.0
Occlusion or stenosis of precerebral arteries	488	0.3	87.3
Other liver diseases	457	0.2	87.5
Fever of unknown origin	443	0.2	87.8
Pathological fracture	435	0.2	88.0
Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth;	431	0.2	88.3
Other upper respiratory infections	419	0.2	88.5
Cancer of prostate	416	0.2	88.7
Aortic; peripheral; and visceral artery aneurysms	414	0.2	88.9
Prolapse of female genital organs	401	0.2	89.2
Sickle cell anemia	395	0.2	89.4
Infective arthritis and osteomyelitis (except that caused by tuberculosis o	366	0.2	89.6
Headache; including migraine	363	0.2	89.8
Crushing injury or internal injury	362	0.2	90.0
Other bone disease and musculoskeletal deformities	347	0.2	90.1
Superficial injury; contusion	346	0.2	90.3
Hyperplasia of prostate	334	0.2	90.5

**Nassau County
CCS Principal Diagnoses**

CCS Principal Diagnoses	Frequency	Percent	Cumulative Percent
Diseases of white blood cells	318	0.2	90.7
Cancer of uterus	306	0.2	90.9
Poisoning by psychotropic agents	300	0.2	91.0
Other disorders of stomach and duodenum	285	0.2	91.2
Genitourinary symptoms and ill-defined conditions	282	0.2	91.3
Neoplasms of unspecified nature or uncertain behavior	277	0.2	91.5
Cancer of kidney and renal pelvis	277	0.2	91.6
Ovarian cyst	274	0.1	91.8
Skull and face fractures	270	0.1	91.9
Other female genital disorders	266	0.1	92.1
Chronic ulcer of skin	265	0.1	92.2
Screening and history of mental health and substance abuse codes	264	0.1	92.4
Open wounds of head; neck; and trunk	264	0.1	92.5
Cancer of bladder	258	0.1	92.6
Other hereditary and degenerative nervous system conditions	251	0.1	92.8
Cancer of pancreas	251	0.1	92.9
Other endocrine disorders	249	0.1	93.1
Non-Hodgkin's Lymphoma	247	0.1	93.2
Hemorrhage during pregnancy; abruptio placenta; placenta previa	245	0.1	93.3
Cancer of thyroid	244	0.1	93.5
Other upper respiratory disease	241	0.1	93.6
Gangrene	238	0.1	93.7
Cancer of rectum and anus	223	0.1	93.8
Open wounds of extremities	220	0.1	94.0
HIV infection	217	0.1	94.1
Other non-traumatic joint disorders	215	0.1	94.2
Other diseases of kidney and ureters	211	0.1	94.3
Cardiac and circulatory congenital anomalies	211	0.1	94.4
Thyroid disorders	205	0.1	94.5
Allergic reactions	202	0.1	94.6
Anal and rectal conditions	201	0.1	94.8
Sprains and strains	199	0.1	94.9
Coagulation and hemorrhagic disorders	197	0.1	95.0
Leukemias	196	0.1	95.1
Other congenital anomalies	194	0.1	95.2
Influenza	191	0.1	95.3
Other perinatal conditions	177	0.1	95.4

Nassau County
CCS Principal Diagnoses

CCS Principal Diagnoses	Frequency	Percent	Cumulative Percent
Meningitis (except that caused by tuberculosis or sexually transmitted disease)	176	0.1	95.5
Cancer of brain and nervous system	176	0.1	95.6
Joint disorders and dislocations; trauma-related	172	0.1	95.7
Hemorrhoids	170	0.1	95.8
Cancer of other GI organs; peritoneum	167	0.1	95.8
Cancer of ovary	165	0.1	95.9
Spontaneous abortion	164	0.1	96.0
Other diseases of veins and lymphatics	162	0.1	96.1
Multiple sclerosis	161	0.1	96.2
Gastroduodenal ulcer (except hemorrhage)	160	0.1	96.3
Disorders of teeth and jaw	159	0.1	96.4
Endometriosis	151	0.1	96.5
Burns	146	0.1	96.5
Other acquired deformities	143	0.1	96.6
Cancer of head and neck	141	0.1	96.7
Menstrual disorders	137	0.1	96.8
Cancer of stomach	136	0.1	96.8
Inflammatory diseases of female pelvic organs	135	0.1	96.9
Inflammatory conditions of male genital organs	135	0.1	97.0
Anxiety disorders	134	0.1	97.1
Other infections; including parasitic	131	0.1	97.1
Ectopic pregnancy	131	0.1	97.2
Miscellaneous disorders	130	0.1	97.3
Hemolytic jaundice and perinatal jaundice	128	0.1	97.3
Acute and chronic tonsillitis	127	0.1	97.4
Inflammation; infection of eye (except that caused by tuberculosis or sexua	126	0.1	97.5
Hepatitis	126	0.1	97.6
Nausea and vomiting	126	0.1	97.6
Cancer of liver and intrahepatic bile duct	126	0.1	97.7
Gout and other crystal arthropathies	123	0.1	97.8
Systemic lupus erythematosus and connective tissue disorders	121	0.1	97.8
Nonmalignant breast conditions	119	0.1	97.9
Aortic and peripheral arterial embolism or thrombosis	114	0.1	97.9
Parkinson's disease	113	0.1	98.0
Multiple myeloma	112	0.1	98.1
Other skin disorders	108	0.1	98.1
Diabetes mellitus without complication	106	0.1	98.2

Nassau County
CCS Principal Diagnoses

CCS Principal Diagnoses	Frequency	Percent	Cumulative Percent
Malaise and fatigue	105	0.1	98.2
Other diseases of bladder and urethra	101	0.1	98.3
Other and ill-defined cerebrovascular disease	98	0.1	98.4
Mycoses	97	0.1	98.4
Rheumatoid arthritis and related disease	96	0.1	98.5
Lymphadenitis	94	0.1	98.5
Fetopelvic disproportion; obstruction	87	0.0	98.6
Adjustment disorders	87	0.0	98.6
Diseases of mouth; excluding dental	87	0.0	98.7
Digestive congenital anomalies	85	0.0	98.7
Cancer of esophagus	82	0.0	98.7
Poisoning by nonmedicinal substances	82	0.0	98.8
Cancer of bone and connective tissue	80	0.0	98.8
Peritonitis and intestinal abscess	80	0.0	98.9
Late effects of cerebrovascular disease	77	0.0	98.9
Forceps delivery	77	0.0	99.0
Cancer of cervix	76	0.0	99.0
Genitourinary congenital anomalies	76	0.0	99.0
Chronic renal failure	73	0.0	99.1
Acute posthemorrhagic anemia	70	0.0	99.1
Attention-deficit, conduct, and disruptive behavior disorders	69	0.0	99.2
Induced abortion	68	0.0	99.2
Other inflammatory condition of skin	67	0.0	99.2
Other male genital disorders	63	0.0	99.3
Cardiac arrest and ventricular fibrillation	62	0.0	99.3
Other ear and sense organ disorders	59	0.0	99.3
Nephritis; nephrosis; renal sclerosis	57	0.0	99.4
Other non-epithelial cancer of skin	53	0.0	99.4
Coma; stupor; and brain damage	53	0.0	99.4
Tuberculosis	52	0.0	99.4
Encephalitis (except that caused by tuberculosis or sexually transmitted di	48	0.0	99.5
Impulse control disorders, NEC	47	0.0	99.5
Retinal detachments; defects; vascular occlusion; and retinopathy	44	0.0	99.5
Other aftercare	44	0.0	99.5
Nutritional deficiencies	43	0.0	99.6
Other eye disorders	42	0.0	99.6
Cancer; other and unspecified primary	39	0.0	99.6
Varicose veins of lower extremity	37	0.0	99.6

Nassau County
CCS Principal Diagnoses

CCS Principal Diagnoses	Frequency	Percent	Cumulative Percent
Otitis media and related conditions	36	0.0	99.7
Spinal cord injury	36	0.0	99.7
Cancer of other female genital organs	35	0.0	99.7
Nervous system congenital anomalies	33	0.0	99.7
Menopausal disorders	33	0.0	99.7
Other CNS infection and poliomyelitis	28	0.0	99.7
Other screening for suspected conditions (not mental disorders or infectious)	27	0.0	99.8
Paralysis	26	0.0	99.8
Malignant neoplasm without specification of site	25	0.0	99.8
Melanomas of skin	25	0.0	99.8
Disorders usually diagnosed in infancy, childhood, or adolescence	24	0.0	99.8
Sexually transmitted infections (not HIV or hepatitis)	23	0.0	99.8
Bacterial infection; unspecified site	23	0.0	99.8
Blindness and vision defects	23	0.0	99.8
Acquired foot deformities	23	0.0	99.9
Developmental disorders	21	0.0	99.9
Other hematologic conditions	21	0.0	99.9
Other and ill-defined heart disease	21	0.0	99.9
Cystic fibrosis	19	0.0	99.9
Short gestation; low birth weight; and fetal growth retardation	19	0.0	99.9
Hodgkin's disease	18	0.0	99.9
Cancer of other urinary organs	16	0.0	99.9
Personality disorders	15	0.0	99.9
Cancer of testis	13	0.0	100.0
Postabortion complications	12	0.0	100.0
Lung disease due to external agents	12	0.0	100.0
Medical examination/evaluation	11	0.0	100.0
Cancer; other respiratory and intrathoracic	11	0.0	100.0
Immunizations and screening for infectious disease	8	0.0	100.0
Glaucoma	5	0.0	100.0
Shock	5	0.0	100.0
Intrauterine hypoxia and birth asphyxia	4	0.0	100.0
Immunity disorders	4	0.0	100.0
Respiratory distress syndrome	3	0.0	100.0
Contraceptive and procreative management	3	0.0	100.0
Cataract	3	0.0	100.0
Cancer of other male genital organs	2	0.0	100.0

**Nassau County
CCS Principal Diagnoses**

CCS Principal Diagnoses	Frequency	Percent	Cumulative Percent
Female infertility	2	0.0	100.0
Disorders of lipid metabolism	2	0.0	100.0
Administrative/social admission	1	0.0	100.0
Osteoporosis	1	0.0	100.0
Birth trauma	1	0.0	100.0
Total	183,719	100.0	

**Suffolk County
CCS Principal Diagnoses**

CCS Principal Diagnoses	Frequency	Percent	Cumulative Percent
Liveborn	17,639	9.0	9.0
Coronary atherosclerosis and other heart disease	6,482	3.3	12.3
Nonspecific chest pain	5,941	3.0	15.3
Cardiac dysrhythmias	4,997	2.5	17.8
Congestive heart failure; nonhypertensive	4,980	2.5	20.3
Pneumonia (except that caused by tuberculosis or sexually transmitted disea	4,765	2.4	22.8
Septicemia (except in labor)	4,113	2.1	24.9
Mood disorders	3,674	1.9	26.7
OB-related trauma to perineum and vulva	3,519	1.8	28.5
Acute myocardial infarction	3,388	1.7	30.2
Osteoarthritis	3,323	1.7	31.9
Complication of device; implant or graft	3,294	1.7	33.6
Spondylosis; intervertebral disc disorders; other back problems	3,169	1.6	35.2
Skin and subcutaneous tissue infections	3,115	1.6	36.8
Other complications of birth; puerperium affecting management of mother	3,017	1.5	38.3
Previous C-section	2,958	1.5	39.8
Chronic obstructive pulmonary disease and bronchiectasis	2,889	1.5	41.3
Syncope	2,872	1.5	42.8
Substance-related disorders	2,802	1.4	44.2
Rehabilitation care; fitting of prostheses; and adjustment of devices	2,739	1.4	45.6
Biliary tract disease	2,640	1.3	46.9
Complications of surgical procedures or medical care	2,563	1.3	48.2
Urinary tract infections	2,386	1.2	49.4
Fluid and electrolyte disorders	2,352	1.2	50.6
Diabetes mellitus with complications	2,278	1.2	51.8
Acute cerebrovascular disease	2,171	1.1	52.9
Other complications of pregnancy	2,159	1.1	54.0
Alcohol-related disorders	2,121	1.1	55.1
Asthma	2,059	1.0	56.1
Epilepsy; convulsions	1,999	1.0	57.1
Diverticulosis and diverticulitis	1,987	1.0	58.1
Appendicitis and other appendiceal conditions	1,909	1.0	59.1
Acute and unspecified renal failure	1,814	0.9	60.0
Gastrointestinal hemorrhage	1,804	0.9	60.9
Intestinal obstruction without hernia	1,504	0.8	61.7

**Suffolk County
CCS Principal Diagnoses**

CCS Principal Diagnoses	Frequency	Percent	Cumulative Percent
Schizophrenia and other psychotic disorders	1,469	0.7	62.5
Secondary malignancies	1,421	0.7	63.2
Fracture of neck of femur (hip)	1,365	0.7	63.9
Intestinal infection	1,338	0.7	64.5
Respiratory failure; insufficiency; arrest (adult)	1,335	0.7	65.2
Other nutritional; endocrine; and metabolic disorders	1,331	0.7	65.9
Fracture of lower limb	1,321	0.7	66.6
Transient cerebral ischemia	1,318	0.7	67.2
Pancreatic disorders (not diabetes)	1,293	0.7	67.9
Deficiency and other anemia	1,290	0.7	68.6
Other nervous system disorders	1,273	0.6	69.2
Abdominal hernia	1,115	0.6	69.8
Other fractures	1,109	0.6	70.3
Benign neoplasm of uterus	1,097	0.6	70.9
Other gastrointestinal disorders	1,073	0.5	71.4
Normal pregnancy and/or delivery	1,000	0.5	71.9
Intracranial injury	989	0.5	72.4
Fetal distress and abnormal forces of labor	975	0.5	72.9
Abdominal pain	957	0.5	73.4
Fracture of upper limb	956	0.5	73.9
Prolonged pregnancy	956	0.5	74.4
Peripheral and visceral atherosclerosis	918	0.5	74.9
Hypertension with complications and secondary hypertension	917	0.5	75.3
Hypertension complicating pregnancy; childbirth and the puerperium	897	0.5	75.8
Other and unspecified benign neoplasm	890	0.5	76.2
Cancer of bronchus; lung	887	0.5	76.7
Maintenance chemotherapy; radiotherapy	873	0.4	77.1
Calculus of urinary tract	865	0.4	77.6
Malposition; malpresentation	851	0.4	78.0
Phlebitis; thrombophlebitis and thromboembolism	851	0.4	78.4
Aspiration pneumonitis; food/vomitus	844	0.4	78.9
Noninfectious gastroenteritis	819	0.4	79.3
Early or threatened labor	812	0.4	79.7
Heart valve disorders	805	0.4	80.1
Polyhydramnios and other problems of amniotic cavity	783	0.4	80.5
Residual codes; unclassified	728	0.4	80.9
Cancer of breast	716	0.4	81.2

Suffolk County
CCS Principal Diagnoses

CCS Principal Diagnoses	Frequency	Percent	Cumulative Percent
Esophageal disorders	716	0.4	81.6
Poisoning by other medications and drugs	701	0.4	82.0
Other lower respiratory disease	694	0.4	82.3
Other circulatory disease	684	0.3	82.7
Umbilical cord complication	682	0.3	83.0
Conditions associated with dizziness or vertigo	661	0.3	83.3
Viral infection	644	0.3	83.7
Occlusion or stenosis of precerebral arteries	634	0.3	84.0
Regional enteritis and ulcerative colitis	626	0.3	84.3
Other connective tissue disease	621	0.3	84.6
Conduction disorders	612	0.3	84.9
Pulmonary heart disease	598	0.3	85.2
Acute bronchitis	592	0.3	85.5
Gastritis and duodenitis	588	0.3	85.8
Pleurisy; pneumothorax; pulmonary collapse	553	0.3	86.1
Essential hypertension	519	0.3	86.4
Cancer of colon	516	0.3	86.6
Prolapse of female genital organs	502	0.3	86.9
Other injuries and conditions due to external causes	494	0.3	87.2
Aortic; peripheral; and visceral artery aneurysms	490	0.2	87.4
Other liver diseases	487	0.2	87.6
Peri-; endo-; and myocarditis; cardiomyopathy (except that caused by tuberc	477	0.2	87.9
Delirium, dementia, and amnestic and other cognitive disorders	452	0.2	88.1
Other upper respiratory infections	451	0.2	88.3
Headache; including migraine	450	0.2	88.6
Other bone disease and musculoskeletal deformities	443	0.2	88.8
Fever of unknown origin	438	0.2	89.0
Cancer of prostate	437	0.2	89.2
Pathological fracture	401	0.2	89.5
Crushing injury or internal injury	394	0.2	89.7
Infective arthritis and osteomyelitis (except that caused by tuberculosis o	376	0.2	89.8
Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth;	367	0.2	90.0
Diseases of white blood cells	358	0.2	90.2
Poisoning by psychotropic agents	353	0.2	90.4
Other female genital disorders	342	0.2	90.6
Other disorders of stomach and duodenum	314	0.2	90.7

**Suffolk County
CCS Principal Diagnoses**

CCS Principal Diagnoses	Frequency	Percent	Cumulative Percent
Superficial injury; contusion	306	0.2	90.9
Hemorrhage during pregnancy; abruptio placenta; placenta previa	295	0.1	91.0
Cancer of kidney and renal pelvis	295	0.1	91.2
Other upper respiratory disease	294	0.1	91.3
Screening and history of mental health and substance abuse codes	291	0.1	91.5
Skull and face fractures	288	0.1	91.6
Neoplasms of unspecified nature or uncertain behavior	285	0.1	91.8
Open wounds of extremities	283	0.1	91.9
Ovarian cyst	281	0.1	92.1
Other endocrine disorders	273	0.1	92.2
Menstrual disorders	271	0.1	92.3
Cancer of uterus	268	0.1	92.5
Other congenital anomalies	264	0.1	92.6
Meningitis (except that caused by tuberculosis or sexually transmitted dise	264	0.1	92.7
Other perinatal conditions	261	0.1	92.9
Leukemias	260	0.1	93.0
Cancer of thyroid	259	0.1	93.1
Non-Hodgkin's Lymphoma	254	0.1	93.3
Thyroid disorders	254	0.1	93.4
Chronic ulcer of skin	253	0.1	93.5
Cardiac and circulatory congenital anomalies	250	0.1	93.6
Cancer of pancreas	237	0.1	93.8
Sickle cell anemia	231	0.1	93.9
Sprains and strains	229	0.1	94.0
Other non-traumatic joint disorders	226	0.1	94.1
Anal and rectal conditions	222	0.1	94.2
Genitourinary symptoms and ill-defined conditions	221	0.1	94.3
Other hereditary and degenerative nervous system conditions	221	0.1	94.5
Endometriosis	219	0.1	94.6
Other infections; including parasitic	218	0.1	94.7
Other diseases of kidney and ureters	213	0.1	94.8
Open wounds of head; neck; and trunk	212	0.1	94.9
Cancer of brain and nervous system	211	0.1	95.0
Joint disorders and dislocations; trauma-related	210	0.1	95.1
Coagulation and hemorrhagic disorders	206	0.1	95.2
Acute and chronic tonsillitis	204	0.1	95.3

**Suffolk County
CCS Principal Diagnoses**

CCS Principal Diagnoses	Frequency	Percent	Cumulative Percent
Miscellaneous disorders	203	0.1	95.4
Hyperplasia of prostate	203	0.1	95.5
Hemorrhoids	202	0.1	95.6
Cancer of rectum and anus	201	0.1	95.7
Cancer of bladder	200	0.1	95.8
Multiple sclerosis	191	0.1	95.9
Gangrene	189	0.1	96.0
Inflammatory diseases of female pelvic organs	187	0.1	96.1
Gastroduodenal ulcer (except hemorrhage)	175	0.1	96.2
Other acquired deformities	174	0.1	96.3
Influenza	172	0.1	96.4
Cancer of head and neck	172	0.1	96.5
Fetopelvic disproportion; obstruction	170	0.1	96.6
Disorders of teeth and jaw	163	0.1	96.6
Anxiety disorders	162	0.1	96.7
Ectopic pregnancy	159	0.1	96.8
Cancer of liver and intrahepatic bile duct	157	0.1	96.9
HIV infection	157	0.1	97.0
Nausea and vomiting	155	0.1	97.0
Nonmalignant breast conditions	153	0.1	97.1
Aortic and peripheral arterial embolism or thrombosis	152	0.1	97.2
Other and ill-defined cerebrovascular disease	149	0.1	97.3
Allergic reactions	142	0.1	97.3
Inflammation; infection of eye (except that caused by tuberculosis or sexua	137	0.1	97.4
Burns	137	0.1	97.5
Spontaneous abortion	125	0.1	97.5
Cancer of stomach	122	0.1	97.6
Malaise and fatigue	121	0.1	97.7
Lymphadenitis	120	0.1	97.7
Cancer of ovary	118	0.1	97.8
Hepatitis	118	0.1	97.8
Other diseases of veins and lymphatics	117	0.1	97.9
Diabetes mellitus without complication	115	0.1	98.0
Cancer of other GI organs; peritoneum	112	0.1	98.0
Systemic lupus erythematosus and connective tissue disorders	109	0.1	98.1
Peritonitis and intestinal abscess	109	0.1	98.1
Hemolytic jaundice and perinatal jaundice	108	0.1	98.2
Digestive congenital anomalies	107	0.1	98.2

**Suffolk County
CCS Principal Diagnoses**

CCS Principal Diagnoses	Frequency	Percent	Cumulative Percent
Parkinson`s disease	102	0.1	98.3
Multiple myeloma	99	0.1	98.3
Diseases of mouth; excluding dental	96	0.0	98.4
Other diseases of bladder and urethra	94	0.0	98.4
Acute posthemorrhagic anemia	94	0.0	98.5
Chronic renal failure	93	0.0	98.5
Cancer of cervix	93	0.0	98.6
Rheumatoid arthritis and related disease	89	0.0	98.6
Other skin disorders	88	0.0	98.7
Cancer of bone and connective tissue	86	0.0	98.7
Adjustment disorders	84	0.0	98.8
Induced abortion	83	0.0	98.8
Poisoning by nonmedicinal substances	80	0.0	98.8
Inflammatory conditions of male genital organs	79	0.0	98.9
Mycoses	79	0.0	98.9
Otitis media and related conditions	78	0.0	99.0
Other aftercare	78	0.0	99.0
Attention-deficit, conduct, and disruptive behavior disorders	78	0.0	99.0
Gout and other crystal arthropathies	74	0.0	99.1
Genitourinary congenital anomalies	71	0.0	99.1
Cancer of esophagus	70	0.0	99.1
Cardiac arrest and ventricular fibrillation	70	0.0	99.2
Other eye disorders	62	0.0	99.2
Other male genital disorders	61	0.0	99.2
Nephritis; nephrosis; renal sclerosis	61	0.0	99.3
Cystic fibrosis	61	0.0	99.3
Other ear and sense organ disorders	58	0.0	99.3
Other inflammatory condition of skin	58	0.0	99.4
Late effects of cerebrovascular disease	55	0.0	99.4
Encephalitis (except that caused by tuberculosis or sexually transmitted di	51	0.0	99.4
Spinal cord injury	51	0.0	99.4
Cancer; other and unspecified primary	50	0.0	99.5
Forceps delivery	49	0.0	99.5
Tuberculosis	48	0.0	99.5
Melanomas of skin	47	0.0	99.5
Coma; stupor; and brain damage	46	0.0	99.6
Other non-epithelial cancer of skin	45	0.0	99.6
Nutritional deficiencies	39	0.0	99.6
Paralysis	37	0.0	99.6

**Suffolk County
CCS Principal Diagnoses**

CCS Principal Diagnoses	Frequency	Percent	Cumulative Percent
Other CNS infection and poliomyelitis	35	0.0	99.6
Blindness and vision defects	35	0.0	99.7
Nervous system congenital anomalies	34	0.0	99.7
Menopausal disorders	32	0.0	99.7
Cancer of other female genital organs	32	0.0	99.7
Impulse control disorders, NEC	31	0.0	99.7
Lung disease due to external agents	31	0.0	99.7
Retinal detachments; defects; vascular occlusion; and retinopathy	29	0.0	99.8
Disorders usually diagnosed in infancy, childhood, or adolescence	29	0.0	99.8
Short gestation; low birth weight; and fetal growth retardation	28	0.0	99.8
Other screening for suspected conditions (not mental disorders or infectious)	28	0.0	99.8
Respiratory distress syndrome	27	0.0	99.8
Acquired foot deformities	26	0.0	99.8
Bacterial infection; unspecified site	25	0.0	99.8
Other hematologic conditions	24	0.0	99.9
Malignant neoplasm without specification of site	23	0.0	99.9
Personality disorders	22	0.0	99.9
Other and ill-defined heart disease	22	0.0	99.9
Postabortion complications	21	0.0	99.9
Hodgkin's disease	20	0.0	99.9
Cancer of other urinary organs	20	0.0	99.9
Cancer; other respiratory and intrathoracic	17	0.0	99.9
Developmental disorders	15	0.0	99.9
Immunizations and screening for infectious disease	14	0.0	99.9
Varicose veins of lower extremity	14	0.0	100.0
Contraceptive and procreative management	12	0.0	100.0
Cancer of testis	12	0.0	100.0
Sexually transmitted infections (not HIV or hepatitis)	12	0.0	100.0
Immunity disorders	10	0.0	100.0
Medical examination/evaluation	9	0.0	100.0
Cancer of other male genital organs	8	0.0	100.0
Suicide and intentional self-inflicted injury	5	0.0	100.0
Shock	5	0.0	100.0
Glaucoma	4	0.0	100.0
Intrauterine hypoxia and birth asphyxia	4	0.0	100.0
Cataract	3	0.0	100.0

**Suffolk County
CCS Principal Diagnoses**

CCS Principal Diagnoses	Frequency	Percent	Cumulative Percent
Disorders of lipid metabolism	3	0.0	100.0
Birth trauma	2	0.0	100.0
Administrative/social admission	2	0.0	100.0
Osteoporosis	1	0.0	100.0
Female infertility	1	0.0	100.0
Total	196,782	100.0	

Community Variation Appendix Nassau

	Significant % >	Significant % <	Total
Hempstead	4	6	10
Roosevelt	4	6	10
Westbury	3	6	9
Freeport	4	4	8
Long Beach	4	3	7
Uniondale	4	3	7
East Meadow	3	3	6
Plainview	3	3	6
Woodbury	3	3	6
Elmont	2	3	5
Bethpage	2	2	4
Glen Cove	1	3	4
Island Park	2	2	4
Albertson	1	2	3
Atlantic Beach	1	2	3
Baldwin	1	2	3
Lawrence	1	2	3
Merrick	1	2	3
New Hyde Park	1	2	3
Sea Cliff	1	2	3
Bayville	0	2	2
Cedarhurst	2	0	2
Franklin Square	0	2	2
Garden City	1	1	2
Lynbrook	1	1	2
Manhasset	1	1	2
Roslyn	2	0	2
Woodmere	1	1	2
East Rockaway	1	0	1
Farmingdale	0	1	1
Floral Park	0	1	1
Glen Head	0	1	1
Hewlett	1	0	1

Community Variation Appendix Nassau

	Significant % >	Significant % <	Total
Hicksville	1	0	1
Inwood	1	0	1
Kings Point	0	1	1
Levittown	0	1	1
Massapequa	1	0	1
Massapequa Park	1	0	1
Mill Neck	1	0	1
Port Washington	1	0	1
Rockville Ctr	1	0	1
So Valley Stream	0	1	1
Syosset	1	0	1
Valley Stream	1	0	1
Wantagh	0	1	1
West Hempstead	1	0	1
Williston Park	1	0	1
Bellmore	0	0	0
Carle Place	0	0	0
East Norwich	0	0	0
Glenwood Landing	0	0	0
Great Neck	0	0	0
Greenvale	0	0	0
Jericho	0	0	0
Locust Valley	0	0	0
Malverne	0	0	0
Mineola	0	0	0
Oceanside	0	0	0
Old Bethpage	0	0	0
Old Westbury	0	0	0
Oyster Bay	0	0	0
Point Lookout	0	0	0
Roslyn Heights	0	0	0
Seaford	0	0	0

Community Variation Appendix Suffolk

	Significant % >	Significant % <	Total
Central Islip	2	6	8
Brentwood	2	5	7
Saint James	4	3	7
Bay Shore	2	4	6
Smithtown	3	3	6
Wyandanch	3	3	6
Melville	2	3	5
Patchogue	3	2	5
Ridge	3	2	5
West Islip	2	3	5
Brookhaven	2	2	4
Commack	1	3	4
Huntington	2	2	4
Mastic Beach	3	1	4
Middle Island	3	1	4
Northport	3	1	4
Oakdale	2	2	4
Sayville	2	2	4
Calverton	2	1	3
Copaigue	2	1	3
East Marion	1	2	3
Huntington	2	1	3
Pt Jefferson	1	2	3
Southold	1	2	3
Stony Brook	1	2	3
West Babylon	2	1	3
Amityville	1	1	2
Bellport	2	0	2
Cutchogue	2	0	2
Hampton Bays	2	0	2
Holbrook	1	1	2
Kings Park	1	1	2
Mattituck	1	1	2

Community Variation Appendix Suffolk

	Significant % >	Significant % <	Total
North Babylon	1	1	2
Setauket	1	1	2
Shirley	2	0	2
Sound Beach	1	1	2
Southampton	1	1	2
Suny-Stony	2	0	2
Babylon	0	1	1
Blue Point	1	0	1
Bridgehampton	1	0	1
Brightwaters	1	0	1
Centereach	1	0	1
Coram	0	1	1
Deer Park	0	1	1
East Hampton	0	1	1
East Islip	1	0	1
Great River	1	0	1
Greenlawn	1	0	1
Greenport	1	0	1
Islip Terrace	0	1	1
Mastic	1	0	1
Montauk	1	0	1
Orient	1	0	1
Peconic	1	0	1
Pt Jefferson Sta	0	1	1
Ronkonkoma	1	0	1
Shelter I Hgts	1	0	1
Wainscott	1	0	1
Water Mill	1	0	1
Yaphank	1	0	1
Amagansett	0	0	0
Aquebogue	0	0	0
Bayport	0	0	0
Bohemia	0	0	0

Community Variation Appendix Suffolk

	Significant % >	Significant % <	Total
Center Moriches	0	0	0
Centerport	0	0	0
Cold Spring	0	0	0
East Moriches	0	0	0
East Northport	0	0	0
East Quogue	0	0	0
Eastport	0	0	0
Farmingville	0	0	0
Fishers Island	0	0	0
Happaugue	0	0	0
Hauppauge	0	0	0
Holtsville	0	0	0
Islip	0	0	0
Jamesport	0	0	0
Lake Grove	0	0	0
Laurel	0	0	0
Lindenhurst	0	0	0
Manorville	0	0	0
Medford	0	0	0
Miller Place	0	0	0
Moriches	0	0	0
Mount Sinai	0	0	0
Nesconset	0	0	0
New Suffolk	0	0	0
Ocean Beach	0	0	0
Quogue	0	0	0
Remsenburg	0	0	0
Riverhead	0	0	0
Rocky Point	0	0	0
Sag Harbor	0	0	0
Sagaponack	0	0	0
Selden	0	0	0
Shelter Island	0	0	0

Community Variation Appendix Suffolk

	Significant % >	Significant % <	Total
Shoreham	0	0	0
South Jamesport	0	0	0
Speonk	0	0	0
Upton	0	0	0
Wading River	0	0	0
West Sayville	0	0	0
Westhampton	0	0	0