



APPENDIX A:
DEMOGRAPHIC AND HEALTH STATUS DATA
COMPILED BY NEW SOLUTIONS INC.



SOUTH NASSAU COMMUNITIES HOSPITAL

SERVICE AREA DEMOGRAPHIC OVERVIEW

*Prepared By: New Solutions, Inc.
April 2015*

(Abridged Version)

Service Area Demographics: Age Distribution

2015 POPULATION DISTRIBUTION BY AGE & PROJECTED PERCENT OF CHANGE 2015-2020								
AGE COHORT		SNCH PSA	SNCH SSA	LONG BEACH*	NEW YORK STATE	COMPARATIVE COUNTIES		
						NASSAU	SUFFOLK	QUEENS
0-17	Count	123,175	114,164	6,770	4,248,405	295,911	331,729	476,442
	% of Total	23.0%	21.6%	16.2%	21.5%	21.6%	22.2%	20.5%
	% Change	-2.1%	-3.7%	-0.5%	-0.5%	-4.7%	-5.6%	3.4%
18-44	Count	180,777	179,804	13,909	7,243,682	442,848	495,579	902,281
	% of Total	33.8%	34.1%	33.2%	36.7%	32.3%	33.2%	38.9%
	% Change	0.8%	2.3%	-3.7%	-0.4%	1.9%	0.2%	-2.3%
45-64	Count	148,547	152,763	12,905	5,307,650	401,288	437,560	615,128
	% of Total	27.7%	28.9%	30.8%	26.9%	29.3%	29.3%	26.5%
	% Change	-0.8%	-0.8%	-1.9%	0.1%	-2.2%	-0.4%	5.1%
65-74	Count	45,287	44,859	4,352	1,657,284	122,751	130,836	182,923
	% of Total	8.5%	8.5%	10.4%	8.4%	9.0%	8.8%	7.9%
	% Change	24.4%	24.4%	27.0%	21.5%	24.6%	18.7%	24.3%
75+	Count	37,579	36,138	3,926	1,306,544	108,014	99,217	142,578
	% of Total	7.0%	6.8%	9.4%	6.6%	7.9%	6.6%	6.1%
	% Change	7.9%	8.1%	7.3%	8.3%	6.3%	9.8%	10.4%
Total Population	Count	535,365	527,728	41,862	19,763,565	1,370,812	1,494,921	2,319,352
	% of Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% Change	2.2%	2.4%	1.6%	2.1%	1.7%	1.0%	3.7%
Female 15-44	Count	101,309	102,692	7,331	4,001,013	248,227	274,409	487,723
	% of Total	18.9%	19.5%	17.5%	20.2%	18.1%	18.4%	21.0%
	% Change	-0.3%	0.2%	-4.2%	-1.1%	0.3%	-0.8%	-2.1%

*Long Beach includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes
 Source: New Solutions, Inc., Nielsen/Claritas

Between 2015-2020 the estimated population of Long Beach (41,862 persons) is expected to increase by 1.6%.

- The 0-17 year old age cohort represents 16% in Long Beach compared to 21% in Nassau County. This group will experience minimal change over the next 5 years.
- Those 18-44 will experience the largest decline in population (4%) between 2015-2020 in Long Beach.
- Nearly 31% of Long Beach’s population is in the 45-64 year old cohort, compared to 28% of the population in SNCH’s PSA.
- The only age cohort that is expected to increase over the next 5 years are those over 65.
- Those 65-74 will experience the largest increase in population, 27%, over the next 5 years, while those 75+ will increase by 7% over the next 5 years.
- Women of childbearing age are expected to decline by 4%, compared to 0.3% overall gain county-wide.

Service Area Demographics: Age-Specific Fertility Rate Among Women*

TREND: DELIVERIES AMONG WOMEN AGE 15-44										
GEOGRAPHIC SEGMENT	DELIVERIES TO WOMEN AGE 15-44		FEMALE POPULATION (AGE 15-44)		DELIVERIES/1,000 FEMALE 15-44 POPULATION		PERCENT CHANGE 2009-2013			
	2009	2013	2009	2013	2009	2013	# Deliveries	# Women Age 15-44	Deliveries/1,000 Age 15-44	
SNCH PSA	6,334	6,155	101,844	101,487	62.19	60.65	-2.8%	-0.4%	-2.5%	
SNCH SSA	5,299	5,218	102,399	102,594	51.75	50.86	-1.5%	0.2%	-1.7%	
COMBINED PSA/SSA	11,633	11,373	204,243	204,082	56.96	55.73	-2.2%	-0.1%	-2.2%	
LONG BEACH**	388	349	7,657	7,440	50.67	46.91	-10.1%	-2.8%	-7.4%	
11509 ATLANTIC BEACH	22	11	303	304	72.66	36.23	-50.0%	0.3%	-50.1%	
11561 LONG BEACH	351	329	7,151	6,930	49.08	47.47	-6.3%	-3.1%	-3.3%	
11569 POINT LOOKOUT	15	9	203	206	73.75	43.73	-40.0%	1.2%	-40.7%	
NASSAU COUNTY TOTAL	13,564	13,367	250,028	248,827	54.25	53.72	-1.5%	-0.5%	-1.0%	
SUFFOLK COUNTY TOTAL	15,895	14,787	285,209	278,009	55.73	53.19	-7.0%	-2.5%	-4.6%	
QUEENS COUNTY TOTAL	28,868	28,817	491,743	489,063	58.71	58.92	-0.2%	-0.5%	0.4%	
KINGS COUNTY TOTAL	39,848	38,699	583,197	589,726	68.33	65.62	-2.9%	1.1%	-4.0%	
4 COUNTY TOTAL	98,175	95,670	1,610,177	1,605,625	60.97	59.58	-2.6%	-0.3%	-2.3%	

*Using deliveries as proxy for births.
 **Long Beach includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes
 Source: New Solutions, Inc., Nielsen/Claritas

- The number of births between 2009-2013 is down across all geographies.
- The fertility rate is down across all geographies, except Queens which noted a small, 0.4%, increase.
- The fertility rate in Long Beach has dropped and historically has been lower than the rest of SNCH’s service area.

Service Area Demographics: Race/Ethnicity

2015 POPULATION DISTRIBUTION BY RACE/ETHNICITY & PROJECTED PERCENT OF CHANGE 2015-2020								
COHORT		SNCH	SNCH	LONG	NEW	COMPARATIVE COUNTIES		
		PSA	SSA	BEACH*	YORK STATE	NASSAU	SUFFOLK	QUEENS
White (Alone)	Count	266,847	246,275	32,711	11,122,602	847,974	1,033,575	598,075
	% of Total	49.8%	46.7%	78.1%	56.3%	61.9%	69.1%	25.8%
	% Change	-4.3%	-3.7%	0.0%	-1.6%	-4.4%	-2.8%	-3.9%
Black or African American (Alone)	Count	116,071	174,841	2,145	2,828,550	152,637	105,436	400,650
	% of Total	21.7%	33.1%	5.1%	14.3%	11.1%	7.1%	17.3%
	% Change	6.2%	4.1%	8.7%	1.2%	7.4%	4.6%	0.5%
Hispanic (All Races)	Count	119,232	71,248	5,234	3,717,348	223,081	273,212	659,817
	% of Total	22.3%	13.5%	12.5%	18.8%	16.3%	18.3%	28.4%
	% Change	10.9%	14.4%	7.0%	8.5%	12.7%	11.6%	7.1%
Asian (Alone)	Count	21,420	23,477	1,026	1,576,189	119,332	54,726	556,896
	% of Total	4.0%	4.4%	2.5%	8.0%	8.7%	3.7%	24.0%
	% Change	8.8%	12.1%	5.9%	11.5%	13.8%	9.8%	9.5%
Amer. Indian/Alaska Native/Hawaiian & Pacific Islndr (Alone)	Count	972	1,032	65	61,712	1,882	3,318	7,368
	% of Total	0.2%	0.2%	0.2%	0.3%	0.1%	0.2%	0.3%
	% Change	10.3%	4.5%	20.0%	4.5%	15.4%	4.7%	-3.7%
Two or More Races (Alone)	Count	8,088	8,434	516	374,116	21,060	21,707	63,321
	% of Total	1.5%	1.6%	1.2%	1.9%	1.5%	1.5%	2.7%
	% Change	11.4%	15.3%	13.0%	14.0%	15.9%	10.5%	12.5%
Other Race (Alone)	Count	2,735	2,421	165	83,048	4,846	2,947	33,225
	% of Total	0.5%	0.5%	0.4%	0.4%	0.4%	0.2%	1.4%
	% Change	0.0%	3.0%	-4.8%	1.4%	-0.5%	-1.1%	2.3%
Total	Count	535,365	527,728	41,862	19,763,565	1,370,812	1,494,921	2,319,352
	% of Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% Change	2.2%	2.4%	1.6%	2.1%	1.7%	1.0%	3.7%

*Long Beach includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes
 Source: New Solutions, Inc., Nielsen/Claritas

Long Beach Island is less racially/ethnically diverse than most of SNCH's service area.

- Whites make up 78% of Long Beach's population, compared to 50% of SNCH's PSA and 62% of Nassau County's population.
- Hispanics represent the largest minority population, 13%, followed by Black/African-Americans, 5%, and Asians, 3%.

Service Area Demographics: Education Level

2015 POPULATION DISTRIBUTION BY EDUCATION LEVEL & PROJECTED PERCENT OF CHANGE 2015-2020								
EDUCATION LEVEL		SNCH	SNCH	LONG	NEW YORK	COMPARATIVE COUNTIES		
		PSA	SSA	BEACH*	STATE	NASSAU	SUFFOLK	QUEENS
Less Than Grade 9	Count	24,725	16,579	1,032	916,423	46,553	48,532	175,721
	% of Total	6.8%	4.6%	3.2%	6.8%	4.9%	4.8%	10.7%
	% Change	3.2%	5.0%	1.1%	3.6%	2.5%	1.9%	4.5%
Some High School without Diploma	Count	23,416	25,169	1,031	1,092,556	45,912	55,793	153,931
	% of Total	6.4%	7.0%	3.2%	8.1%	4.9%	5.5%	9.4%
	% Change	3.7%	5.1%	0.6%	3.7%	2.8%	2.5%	5.0%
High School Grad	Count	95,274	104,644	7,268	3,680,518	237,760	305,180	449,037
	% of Total	26.2%	28.9%	22.5%	27.1%	25.1%	29.9%	27.3%
	% Change	4.1%	5.0%	2.3%	3.7%	3.4%	2.9%	5.5%
Some College without Degree	Count	60,017	71,908	5,559	2,236,685	151,409	180,052	251,066
	% of Total	16.5%	19.9%	17.2%	16.5%	16.0%	17.6%	15.3%
	% Change	3.9%	5.2%	2.2%	3.7%	3.4%	2.8%	5.4%
Associates Degree	Count	28,109	33,466	2,503	1,139,810	73,900	90,998	125,666
	% of Total	7.7%	9.3%	7.7%	8.4%	7.8%	8.9%	7.6%
	% Change	4.0%	5.0%	2.4%	3.6%	3.6%	3.0%	5.6%
Bachelors Degree	Count	74,539	66,484	8,413	2,564,474	217,764	186,417	315,047
	% of Total	20.5%	18.4%	26.0%	18.9%	23.0%	18.3%	19.1%
	% Change	3.3%	4.4%	2.1%	3.7%	3.1%	2.6%	5.2%
Masters Degree	Count	41,517	33,980	4,580	1,388,659	119,670	116,291	130,904
	% of Total	11.4%	9.4%	14.2%	10.2%	12.6%	11.4%	8.0%
	% Change	3.2%	4.3%	1.9%	3.6%	3.2%	2.6%	5.2%
Professional School Degree	Count	12,268	7,072	1,433	365,493	40,265	24,929	31,294
	% of Total	3.4%	2.0%	4.4%	2.7%	4.3%	2.4%	1.9%
	% Change	2.9%	5.1%	1.9%	3.7%	3.2%	2.7%	5.1%
Doctorate Degree	Count	4,099	2,427	519	184,518	12,853	12,283	12,706
	% of Total	1.1%	0.7%	1.6%	1.4%	1.4%	1.2%	0.8%
	% Change	3.2%	5.2%	3.1%	3.6%	3.1%	2.6%	5.6%
Total Population	Count	363,964	361,729	32,338	13,569,136	946,086	1,020,475	1,645,372
	% of Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% Change	3.6%	4.9%	2.1%	3.7%	3.2%	2.7%	5.2%

*Long Beach includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes
 Source: New Solutions, Inc., Nielsen/Claritas

Long Beach Island residents represent a well educated population.

- Only 3% of residents have less than a 9th grade education, compared to 7% of SNCH’s PSA. Only 6% did not finish high school, compared to 13% of the PSA.
- 45% of Long Beach residents have a college, masters or Professional School degree, compared to 35% of the PSA population.

Service Area Demographics: Household Income

2015 POPULATION DISTRIBUTION BY HOUSEHOLD INCOME & PROJECTED PERCENT OF CHANGE 2015-2020								
INCOME COHORT		SNCH	SNCH	LONG	NEW YORK	COMPARATIVE COUNTIES		
		PSA	SSA	BEACH*	STATE	NASSAU	SUFFOLK	QUEENS
Income <\$15,000	Count	17,049	11,554	1,553	979,605	24,713	30,166	95,244
	% of Total	9.5%	6.7%	8.4%	13.1%	5.4%	6.0%	11.7%
	% Change	-1.9%	-4.5%	-2.0%	-5.7%	-3.1%	-6.7%	-5.0%
Income \$15,000-\$24,999	Count	12,384	10,922	1,327	743,862	26,211	30,251	84,624
	% of Total	6.9%	6.3%	7.2%	9.9%	5.7%	6.0%	10.4%
	% Change	-1.6%	-4.2%	-3.8%	-4.2%	-3.2%	-6.8%	-6.3%
Income \$25,000-\$34,999	Count	11,118	11,435	1,041	663,662	27,040	29,278	76,716
	% of Total	6.2%	6.6%	5.6%	8.8%	5.9%	5.8%	9.5%
	% Change	-1.0%	-3.8%	-2.7%	-2.6%	-2.8%	-3.8%	-1.1%
Income \$35,000-\$49,999	Count	16,972	17,848	1,338	888,883	39,952	46,167	102,689
	% of Total	9.4%	10.3%	7.2%	11.8%	8.7%	9.2%	12.7%
	% Change	-1.7%	-2.2%	0.2%	-1.7%	-1.6%	-5.2%	-1.0%
Income \$50,000-\$74,999	Count	26,241	26,695	2,586	1,241,288	63,814	75,602	146,531
	% of Total	14.6%	15.4%	14.0%	16.5%	13.9%	15.0%	18.1%
	% Change	-1.9%	-2.2%	-1.7%	-2.1%	-2.2%	-4.9%	-0.9%
Income \$75,000-\$99,999	Count	22,273	24,019	2,556	892,714	57,566	70,037	102,789
	% of Total	12.4%	13.9%	13.8%	11.9%	12.5%	13.9%	12.7%
	% Change	1.2%	-0.5%	-1.9%	2.6%	-0.6%	-3.2%	4.1%
Income \$100,000-\$149,999	Count	34,612	35,960	4,102	1,079,097	96,012	106,433	119,098
	% of Total	19.3%	20.8%	22.2%	14.4%	20.9%	21.2%	14.7%
	% Change	2.9%	3.9%	3.4%	9.4%	1.0%	1.8%	12.7%
Income \$150,000-\$499,999	Count	34,940	32,602	3,548	878,708	107,066	104,138	79,205
	% of Total	19.5%	18.9%	19.2%	11.7%	23.3%	20.7%	9.8%
	% Change	9.5%	14.4%	9.5%	19.4%	8.4%	14.1%	27.5%
Income \$500,000+	Count	4,012	1,910	464	134,329	16,469	10,555	4,003
	% of Total	2.2%	1.1%	2.5%	1.8%	3.6%	2.1%	0.5%
	% Change	22.7%	38.1%	19.4%	26.3%	16.8%	32.4%	62.9%
Total Households	Count	179,601	172,945	18,515	7,502,148	458,843	502,627	810,899
	% of Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% Change	2.2%	2.5%	2.0%	2.4%	1.7%	1.3%	3.7%

*Long Beach includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes

Source: New Solutions, Inc., Nielsen/Claritas

A slightly higher percentage of Long Beach households have incomes over \$100K than PSA households. But, overall, a higher percentage of Nassau County households have incomes over \$100K.

- 8% of Long Beach households have incomes under \$15K, compared to 10% in the PSA, and 5% in Nassau County.
- 20% had incomes from \$15-\$49.9K in Long Beach, compared to 23% in the PSA, and 20% in Nassau County.
- 28% had incomes of \$50-\$99.9K in Long Beach compared to 27% in the PSA and 26% in Nassau County.
- 41% of households had incomes of \$100-\$499.9K, compared to 39% in the PSA, and 44% in Nassau County.

Service Area Demographics: Poverty Status & Median Household Income

2015 POPULATION DISTRIBUTION BY POVERTY STATUS & PROJECTED PERCENT OF CHANGE 2015-2020								
FAMILY POVERTY STATUS		SNCH	SNCH	LONG	NEW YORK	COMPARATIVE COUNTIES		
		PSA	SSA	BEACH*	STATE	NASSAU	SUFFOLK	QUEENS
Families above poverty	Count	119,316	123,776	9,326	4,184,034	331,987	354,711	476,934
	% of Total	91.6%	94.1%	93.8%	87.9%	95.5%	95.3%	87.3%
	% Change	2.2%	2.2%	1.9%	2.3%	1.6%	1.2%	3.7%
Families above poverty with Kids	Count	57,187	59,787	3,551	1,881,260	152,587	170,314	214,018
	% of Total	43.9%	45.5%	35.7%	39.5%	43.9%	45.8%	39.2%
	% Change	2.1%	2.3%	2.0%	2.3%	1.6%	1.1%	3.7%
Families below poverty	Count	10,909	7,755	619	575,068	15,510	17,539	69,587
	% of Total	8.4%	5.9%	6.2%	12.1%	4.5%	4.7%	12.7%
	% Change	0.5%	3.6%	-3.1%	2.3%	0.7%	0.5%	3.1%
Families below poverty with Kids	Count	8,698	5,887	393	433,297	11,730	12,701	48,894
	% of Total	6.7%	4.5%	4.0%	9.1%	3.4%	3.4%	8.9%
	% Change	0.4%	3.5%	-1.0%	2.3%	0.9%	0.6%	3.0%
Total	Count	130,225	131,531	9,945	47,591,02	347,497	372,250	546,521
	% of Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% Change	2.0%	2.3%	1.5%	2.3%	1.6%	1.1%	3.6%

*Long Beach includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes
 Source: New Solutions, Inc., Nielsen/Claritas

2015 POPULATION DISTRIBUTION BY MEDIAN HOUSEHOLD INCOME & PROJECTED PERCENT OF CHANGE 2015-2020								
Median HH Income		SNCH	SNCH	LONG	NEW YORK	COMPARATIVE COUNTIES		
		PSA	SSA	BEACH*	STATE	NASSAU	SUFFOLK	QUEENS
Median HH Income	Count	\$93,874	\$89,048	\$104,204	\$59,568	\$95,830	\$89,246	\$57,944
	% Change	4.8%	5.9%	4.7%	7.7%	3.9%	6.5%	8.2%

*Long Beach includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes
 Source: New Solutions, Inc., Nielsen/Claritas

Overall, families in Long Beach are financially more secure than families in SNCH's PSA.

- Long Beach residents have the highest median income in the region, \$104,204, compared to \$93,874 for the PSA, \$95,830 for Nassau County, and \$59,568 for the State.
- Families below poverty level make up 6% of Long Beach families, compared to 8% in the PSA, and 5% of families in Nassau County.

Service Area Demographics: Health Insurance Coverage (Age 18-64)

HEALTH INSURANCE COVERAGE AMONG EMPLOYED/NOT EMPLOYED										
	LONG BEACH (3 ZIPS)		Atlantic Beach: 11509		Long Beach: 11561		Point Lookout: 11569		NASSAU COUNTY	
	Count	Percent	Estimate	Percent	Estimate	Percent	Estimate	Percent	Estimate	Percent
Civilian noninstitutionalized population										
Age 18 to 64 years	26,969		1,208		25,094		667		823,231	
<i>(inc. In & Not In Labor Force)</i>										
In labor force:	21,902	81%	871	72%	20,471	82%	560	84%	653,294	79.4%
Employed:	20,765		840		19,372		553		606,052	
With health insurance coverage	17,979	86.6%	788	93.80%	16,686	86.10%	505	91.30%	538,860	88.9%
With private health insurance	17,303	83.3%	757	90.10%	16,051	82.90%	495	89.50%	520,057	85.8%
With public coverage	894	4.3%	37	4.40%	838	4.30%	19	3.40%	26,053	4.3%
No health insurance coverage	2,786	13.4%	52	6.20%	2,686	13.90%	48	8.70%	67,192	11.1%
Unemployed:	1,137		31		1,099		7		47,242	
With health insurance coverage	849	74.7%	27	87.10%	822	74.80%	0	0.00%	32,104	68.0%
With private health insurance	539	47.4%	17	54.80%	522	47.50%	0	0.00%	25,202	53.3%
With public coverage	334	29.4%	10	32.30%	324	29.50%	0	0.00%	8,083	17.1%
No health insurance coverage	288	25.3%	4	12.90%	277	25.20%	7	100.00%	15,138	32.0%
Not in labor force:	5,067		337		4,623		107		169,937	
With health insurance coverage	4,256	84.0%	280	83.10%	3,878	83.90%	98	91.60%	147,242	86.6%
With private health insurance	3,024	59.7%	262	77.70%	2,664	57.60%	98	91.60%	120,418	70.9%
With public coverage	1,545	30.5%	34	10.10%	1511	32.70%	0	0.00%	38,747	22.8%
No health insurance coverage	811	16.0%	57	16.90%	745	16.10%	9	8.40%	22,695	13.4%

- **81% of those 18-64 living on Long Beach Island are employed, and 87% have health insurance coverage.**
- **25% of the unemployed and 16% of those not in the labor force have no insurance coverage.**
- **89% of employed residents of Nassau County have health insurance.**
- **32% of unemployed Nassau County residents lack health insurance, and 13% of those not in the labor force lack health insurance.**

* Source: U.S. Census Bureau, 2009-2013 5-Year American Community Survey

Chronic Disease – Nassau County

PREVALENCE OF SPECIFIC CHRONIC CONDITIONS

AMONG MEDICARE FFS BENEFICIARIES: 2008-2010-2012

CONDITION	County Change '08-'12	2012 County vs. State	2012 County vs. National	Nassau County			New York State			National		
				2008	2010	2012	2008	2010	2012	2008	2010	2012
Alzheimer's Disease/Dementia	0.10	1.06	2.67	12.40	13.00	12.50	11.89	12.21	11.45	10.50	10.63	9.83
Arthritis	(0.06)	1.22	0.80	29.82	29.64	29.75	27.36	28.26	28.54	26.75	27.99	28.96
Asthma	0.43	(0.15)	0.81	5.24	5.44	5.67	5.12	5.51	5.82	4.34	4.59	4.86
Atrial Fibrillation	0.47	1.84	2.45	9.84	10.38	10.30	8.34	8.57	8.46	7.41	7.72	7.85
Autism Spectrum Disorders	0.07	(0.03)	0.10	0.16	0.21	0.23	0.17	0.21	0.26	0.08	0.11	0.13
COPD	(0.61)	(1.28)	(1.88)	10.02	9.77	9.40	10.87	10.80	10.69	11.28	11.26	11.28
Cancer	0.16	1.72	2.63	10.37	10.45	10.53	8.71	8.68	8.81	7.80	7.71	7.91
Chronic Kidney Disease	1.42	(1.18)	(1.81)	12.28	13.42	13.69	12.54	14.10	14.87	12.21	14.12	15.50
Depression	1.98	(2.48)	(3.59)	9.88	10.50	11.85	12.21	13.18	14.33	12.75	13.97	15.45
Diabetes	3.01	3.04	7.51	31.54	33.48	34.54	29.20	30.80	31.50	25.86	26.78	27.03
Heart Failure	(1.64)	2.33	5.22	21.43	20.69	19.79	18.88	18.36	17.46	16.12	15.50	14.57
Hyperlipidemia	1.25	4.56	8.72	52.22	53.99	53.47	46.30	48.49	48.91	41.47	43.80	44.75
Hypertension	(0.22)	1.22	2.47	58.18	59.60	57.96	56.64	57.63	56.74	54.40	55.81	55.49
Ischemic Heart Disease	(3.20)	7.64	12.89	44.65	44.14	41.44	36.94	35.92	33.81	30.75	29.99	28.55
Osteoporosis	(0.16)	0.63	1.87	8.39	9.35	8.23	7.58	8.41	7.60	6.67	6.79	6.36
Schizophrenia and Other Psychotic Disorders	0.27	(1.12)	(0.63)	2.93	2.98	3.20	4.14	4.19	4.32	3.57	3.65	3.83
Stroke	(0.68)	0.45	0.71	5.20	4.92	4.52	4.48	4.32	4.07	4.16	4.03	3.81

Indicates a decreasing (favorable) 5 Year figure and/or a lower County rate than the State or National rate

Indicates an increasing (unfavorable) 5 Year figure and/or a higher County rate than the State or National rate

- Nassau County Medicare recipients have higher rates of the following diseases than both the State and U.S.:
 - Alzheimer's
 - Arthritis
 - Atrial Fibrillation
 - Cancer
 - Diabetes
 - Heart Failure
 - Hyperlipidemia
 - Hypertension
 - Ischemic Heart Disease
 - Osteoporosis
 - Stroke
- Nassau County Medicare recipients have higher rates of the following diseases than the U.S., but lower than the State:
 - Asthma
 - Autism Spectrum Disease
- Nassau County Medicare recipients have lower rates of the following diseases than both the State and U.S.:
 - COPD
 - Chronic Kidney Disease
 - Schizophrenia and Other Psychiatric Disorders

Source: CMS administrative claims data, 2008 - 2012, accessed from CMS; http://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/Chronic-Conditions/CC_Main.html

Chronic Disease – Nassau County

MULTIPLE CHRONIC CONDITIONS AMONG MEDICARE BENEFICIARIES 2008, 2010, 2012

Multiple Chronic Conditions among Medicare Beneficiaries by County: Prevalence, Utilization and Cost: 2008-2012

		2008				2010				2012			
		# of Chronic Conditions				# of Chronic Conditions				# of Chronic Conditions			
		0 to 1	2 to 3	4 to 5	6+	0 to 1	2 to 3	4 to 5	6+	0 to 1	2 to 3	4 to 5	6+
Prevalence %	County Trend '08-'12									0.98	(0.81)	(1.16)	0.98
	County vs. State	(4.24)	(0.05)	2.41	1.87	(4.30)	0.04	2.73	1.53	(3.78)	0.44	1.87	1.47
	County vs. National	(7.76)	(1.39)	4.41	4.74	(7.56)	(1.54)	4.59	4.51	(6.64)	(0.72)	3.41	3.95
	Nassau County	26.56	30.44	25.63	17.37	25.75	29.78	26.32	18.15	27.5	29.6	24.5	18.4
	New York State	30.80	30.49	23.22	15.50	30.05	29.74	23.59	16.62	31.3	29.2	22.6	16.9
	National	34.32	31.83	21.22	12.63	33.31	31.32	21.73	13.64	34.2	30.3	21.1	14.4
Per Capita Cost	County Trend '08-'12									\$ 44	\$ 349	\$ (187)	\$ 1,098
	County vs. State	\$ 335	\$ 416	\$ 437	\$ 1,267	\$ 318	\$ 430	\$ 520	\$ 745	\$ 259	\$ 448	\$ 304	\$ 694
	County vs. National	\$ 380	\$ 633	\$ 613	\$ 2,828	\$ 367	\$ 629	\$ 534	\$ 2,173	\$ 314	\$ 702	\$ 496	\$ 2,549
	Nassau County	\$ 2,132	\$ 5,993	\$ 12,341	\$ 34,077	\$ 2,206	\$ 6,242	\$ 12,596	\$ 34,942	\$ 2,176	\$ 6,342	\$ 12,154	\$ 35,175
	New York State	\$ 1,798	\$ 5,578	\$ 11,904	\$ 32,810	\$ 1,889	\$ 5,812	\$ 12,076	\$ 34,197	\$ 1,917	\$ 5,894	\$ 11,850	\$ 34,481
	National	\$ 1,752	\$ 5,360	\$ 11,729	\$ 31,249	\$ 1,839	\$ 5,613	\$ 12,062	\$ 32,768	\$ 1,862	\$ 5,641	\$ 11,659	\$ 32,626

Source: CMS administrative claims data, 2008 - 2012, accessed from CMS; http://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/Chronic-Conditions/MCC_Main.html

Indicates a decreasing (favorable) 5 Year figure and/or a lower County rate than the State or National rate

Indicates an increasing (unfavorable) 5 Year figure and/or a higher County rate than the State or National rate

- Between 2008-2012 the rate of patients with at least 1 and those with more than 6 chronic conditions has increased.
 - The rate for those with 2 or more chronic conditions is higher than the State.
- The per capita cost for treating Nassau County Medicare recipients with 1, 2-3, and 6+ chronic conditions has increased between 2008-2012.
 - The per capita cost for treating patients with chronic conditions is higher in Nassau County compared to the State and U.S.

Chronic Disease – Nassau County

MULTIPLE CHRONIC CONDITIONS AMONG MEDICARE BENEFICIARIES 2008, 2010, 2012

Multiple Chronic Conditions among Medicare Beneficiaries by County: Prevalence, Utilization and Cost: 2008-2012

		2008				2010				2012			
		# of Chronic Conditions				# of Chronic Conditions				# of Chronic Conditions			
		0 to 1	2 to 3	4 to 5	6+	0 to 1	2 to 3	4 to 5	6+	0 to 1	2 to 3	4 to 5	6+
Hospital Readmissions %	County Trend '08-'12									(0.48)	(0.04)	(1.48)	(2.88)
	County vs. State	(1.41)	(1.29)	(1.34)	(0.89)	(0.91)	(1.79)	(1.80)	(2.01)	(1.05)	(0.67)	(1.15)	(2.09)
	County vs. National	0.03	(0.40)	(0.74)	0.75	0.56	(0.68)	(1.26)	(0.63)	0.19	0.35	(0.63)	(0.46)
	Nassau County	8.88	9.99	13.48	26.52	9.24	9.57	12.47	24.64	8.40	9.95	12.00	23.64
	New York State	10.29	11.28	14.82	27.41	10.15	11.36	14.27	26.65	9.45	10.62	13.15	25.73
	National	8.85	10.39	14.22	25.77	8.68	10.25	13.73	25.27	8.21	9.60	12.63	24.10
ED Visits/1,000 Beneficiaries	County Trend '08-'12									(5)	25	21	71
	County vs. State	(65)	(120)	(166)	(233)	(65)	(107)	(137)	(177)	(77)	(122)	(159)	(237)
	County vs. National	(83)	(185)	(322)	(565)	(78)	(164)	(291)	(508)	(89)	(182)	(308)	(558)
	Nassau County	123	241	465	1,347	127	268	493	1,427	118	266	486	1,418
	New York State	188	361	631	1,580	192	375	630	1,604	195	388	645	1,656
	National	205	425	787	1,912	205	432	784	1,935	206	447	794	1,976

Source: CMS administrative claims data, 2008 - 2012, accessed from CMS; http://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/Chronic-Conditions/MCC_Main.html

Indicates a decreasing (favorable) 5 Year figure and/or a lower County rate than the State or National rate

Indicates an increasing (unfavorable) 5 Year figure and/or a higher County rate than the State or National rate

- Between 2008-2012, the rate of hospital readmissions among Nassau County Medicare beneficiaries decreased for those with 1 or more chronic conditions.
- In 2012, hospital readmissions among Medicare recipients were more likely to occur among those with 0-1 or 2-3 chronic conditions compared to Medicare recipients nationally.
- Conversely, fewer hospital readmissions occurred among Medicare recipients with 4-5 or 6+ chronic conditions than nationally.
- ED visit rates for those with 2 or more chronic conditions increased between 2008-2012.
- The ED visit rate for Nassau County residents with 1 or more chronic conditions is lower than the rate Statewide.

Leading Causes of Death: Rates/1,000 Population

SELECT COUNTY and STATE COMPARISON (2011–2012)

Death Rates* For Selected Causes of Death by Resident County New York State – 2011/2012

	NASSAU COUNTY				QUEENS COUNTY				SUFFOLK COUNTY				NEW YORK STATE		
	2011 Rate	2012 Rate	% Rate Change	+/- NY State 2012 Rate	2011 Rate	2012 Rate	% Rate Change	+/- NY State 2012 Rate	2011 Rate	2012 Rate	% Rate Change	+/- NY State 2012 Rate	2011 Rate	2012 Rate	% Rate Change
Total Deaths	795.0	812.8	2.2%	59.7	608.7	613.1	0.7%	(140.0)	756.7	768.8	1.6%	15.7	755.7	753.1	-0.3%
Diseases of the Heart	305.9	295.4	-3.4%	74.3	212.4	206.8	-2.6%	(14.3)	216.8	214.3	-1.2%	(6.8)	225.9	221.1	-2.1%
Malignant Neoplasms	183.4	192.4	4.9%	10.5	148.5	153.3	3.2%	(28.6)	185.2	188.6	1.8%	6.7	180	181.9	1.1%
Cerebrovascular Disease	31.8	33.6	5.7%	2.8	21.2	23.8	12.3%	(7.0)	29.0	29.4	1.4%	(1.4)	31.6	30.8	-2.5%
CLRD1	32.5	33.1	1.8%	(2.6)	21.7	19.6	-9.7%	(16.1)	39.0	38.5	-1.3%	2.8	35.5	35.7	0.6%
Total Accidents	28.2	30.3	7.4%	2.4	18.8	17.3	-8.0%	(10.6)	42.8	45.9	7.2%	18.0	27.0	27.9	3.3%
Pneumonia	22.0	20.8	-5.5%	(1.3)	30.6	27.1	-11.4%	5.0	16.3	16.1	-1.2%	(6.0)	24.7	22.1	-10.5%
Diabetes Mellitus	15.1	14.2	-6.0%	(6.1)	17.8	18.7	5.1%	(1.6)	14.1	14.3	1.4%	(6.0)	20.1	20.3	1.0%
Cirrhosis of the Liver	5.6	6.7	19.6%	(0.9)	6.2	5.9	-4.8%	(1.7)	6.7	8.1	20.9%	0.5	7.6	7.6	0.0%
Suicide	6.7	6.6	-1.5%	(1.9)	6.1	6.5	6.6%	(2.0)	9.1	9.9	8.8%	1.4	8.3	8.5	2.4%
Homicide/Legal Intervention	1.9	2.9	52.6%	(0.8)	3.9	3.8	-2.6%	0.1	2.9	1.8	-37.9%	(1.9)	4.2	3.7	-11.9%
AIDS	1.3	1.3	0.0%	(2.5)	3.8	2.9	-23.7%	(0.9)	1.0	1.3	30.0%	(2.5)	4.6	3.8	-17.4%

- The top 5 leading causes of death are Heart Disease, Cancer, Stroke, CLRD1, and Accidents.
- Of the 5 leading causes of death only Heart Disease is declining.
- Nassau County has higher mortality rates than the State for Heart Disease, Cancer, Stroke, and Accidents.

Source: https://www.health.ny.gov/statistics/vital_statistics/
 Data sorted in descending order on 2012 Nassau County Rate

Cancer Incidence & Mortality: Rate/100,000 Males

NASSAU COUNTY and STATE COMPARISON – BY CANCER SITE

Site of Cancer	INCIDENCE				MORTALITY			
	2002-2006 Nassau Cty	2007-2011 Nassau Cty	County Change 2002-2006 to 2007 to 2011	+/- County '07-'11 Rate vs. NY State '07-'11 Rate	2002-2006 Nassau Cty	2007-2011 Nassau Cty	County Change 2002-2006 to 2007 to 2011	+/- County '07-'11 Rate vs. NY State '07-'11 Rate
All Invasive Malignant Tumors	587.2	582.9	(4.3)	15.2	191.9	172.6	(19.3)	(22.3)
Prostate	169.8	170.6	0.8	7.2	20.7	18.0	(2.7)	(3.2)
Lung and bronchus	72.2	66.0	(6.2)	(9.5)	50.8	41.6	(9.2)	(11.0)
Colorectal	62.0	48.7	(13.3)	(2.9)	20.1	16.5	(3.6)	(1.9)
Urinary bladder (incl. in situ)	46.8	45.3	(1.5)	3.4	6.6	7.5	0.9	(0.4)
Colon excluding rectum	43.1	33.4	(9.7)	(2.5)	16.6	13.7	(2.9)	(1.4)
Melanoma of the skin	28.5	32.2	3.7	10.0	3.7	3.7	-	0.5
Non-Hodgkin lymphomas	27.6	29.4	1.8	3.0	8.3	7.8	(0.5)	0.2
Kidney and renal pelvis	24.7	27.0	2.3	4.5	4.7	4.7	-	(0.3)
Leukemias	18.9	20.8	1.9	1.6	9.6	9.5	(0.1)	0.6
Pancreas	15.7	17.8	2.1	2.1	14.1	13.8	(0.3)	1.0
Rectum & rectosigmoid	18.9	15.3	(3.6)	(0.4)	3.5	2.8	(0.7)	(0.5)
Oral cavity and pharynx	13.1	13.6	0.5	(2.1)	2.7	2.7	-	(0.6)
Thyroid	7.1	11.6	4.5	2.9	0.4	0.6	0.2	0.1
Stomach	10.9	11.3	0.4	(0.9)	6.0	4.1	(1.9)	(1.4)
Liver / intrahepatic bile duct	9.0	11.0	2.0	(2.0)	6.6	7.7	1.1	(1.0)
Myeloma	8.6	9.9	1.3	0.7	4.3	4.2	(0.1)	0.4
Brain and other nervous system	8.6	7.7	(0.9)	-	4.8	4.4	(0.4)	(0.2)
Esophagus	7.8	7.3	(0.5)	(1.2)	6.4	6.0	(0.4)	(1.3)
Testis	6.0	6.2	0.2	0.3	0.3	0.2	(0.1)	-
Larynx	6.0	5.0	(1.0)	(1.6)	1.7	1.3	(0.4)	(0.8)
Hodgkin lymphoma	4.5	4.3	(0.2)	0.5	0.4	0.5	0.1	-

- Nassau County males have higher incidence rates than males statewide for all cancers, Prostate, Bladder, Melanoma, Non-Hodgkin Lymphoma, Kidney, Leukemia, Pancreas, Thyroid, Myeloma, Testis, and Hodgkin Lymphoma.
- Nassau County men have higher cancer mortality rates for Melanoma, Non-Hodgkin Lymphoma, Leukemia, Pancreas, Thyroid cancers, and Myeloma.

Rates are per 100,000 males, age-adjusted to the 2000 US standard population, with 95% confidence intervals. Incidence data provisional, November 2013.

Source: New York State Cancer Registry: Most Recent Data Available; Cancer Site sorted by 2007-2011 incidence rate – descending order; NY State Rates Not Shown

Cancer Incidence & Mortality: Rate/100,000 Females

NASSAU COUNTY and STATE COMPARISON – BY CANCER SITE

Site of Cancer	INCIDENCE				MORTALITY			
	2002-2006 Nassau Cty	2007-2011 Nassau Cty	County Change 2002-2006 to 2007 to 2011	+/- County '07-'11 Rate vs. NY State '07-'11 Rate	2002-2006 Nassau Cty	2007-2011 Nassau Cty	County Change 2002-2006 to 2007 to 2011	+/- County '07-'11 Rate vs. NY State '07-'11 Rate
All Invasive Malignant Tumors	465.7	478.4	12.7	35.7	149.7	133.3	(16.4)	(8.6)
Female breast	143.2	147.5	4.3	18.9	25.3	20.9	(4.4)	(0.8)
Lung and bronchus	55.1	57.8	2.7	2.1	36.3	31.7	(4.6)	(3.7)
Colorectal	46.1	37.1	(9.0)	(2.7)	14.8	11.2	(3.6)	(2.0)
Corpus uterus and uterus, not other specified	30.8	33.1	2.3	2.9	5.1	4.7	(0.4)	(0.5)
Thyroid	20.3	27.5	7.2	2.3	0.4	0.6	0.2	0.1
Colon excluding rectum	33.5	26.9	(6.6)	(2.7)	12.7	9.6	(3.1)	(1.6)
Non-Hodgkin lymphomas	18.6	21.6	3.0	3.5	5.4	4.3	(1.1)	(0.4)
Melanoma of the skin	17.1	19.7	2.6	5.9	2.1	1.9	(0.2)	0.5
Ovary	16.2	14.3	(1.9)	1.3	9.9	8.4	(1.5)	0.6
Pancreas	12.5	12.6	0.1	0.6	9.9	9.9	-	0.1
Leukemias	10.9	12.2	1.3	0.8	5.4	4.8	(0.6)	(0.1)
Urinary bladder (incl. in situ)	12.6	12.1	(0.5)	1.5	2.1	2.1	-	(0.2)
Kidney and renal pelvis	10.9	11.3	0.4	0.5	2.3	2.1	(0.2)	-
Rectum & rectosigmoid	12.6	10.3	(2.3)	0.1	2.1	1.6	(0.5)	(0.4)
Oral cavity and pharynx	6.1	6.6	0.5	0.3	1.1	1.1	-	(0.1)
Cervix uteri	7.5	6.6	(0.9)	(1.5)	1.6	1.7	0.1	(0.6)
Myeloma	5.7	6.2	0.5	0.1	2.7	2.7	-	0.1
Stomach	6.0	5.8	(0.2)	(0.2)	2.8	2.9	0.1	-
Brain and other nervous system	5.8	5.7	(0.1)	0.1	3.0	3.6	0.6	0.7
Hodgkin lymphoma	3.2	3.4	0.2	0.5	0.5	0.2	(0.3)	(0.1)
Liver / intrahepatic bile duct	3.0	3.3	0.3	(0.8)	2.3	2.5	0.2	(0.8)
Esophagus	1.7	1.7	-	(0.5)	1.6	1.2	(0.4)	(0.5)
Larynx	1.4	1.1	(0.3)	(0.4)	0.4	0.3	(0.1)	(0.2)

- Women in Nassau County have higher cancer incidence rates than women statewide for all but Colorectal, Colon, Cervical, Stomach, Liver, Esophagus and Larynx cancers.
- Women in Nassau County have higher cancer mortality rates for Thyroid, Melanoma, Ovarian, Pancreas, Myeloma and Brain cancers.

Rates are per 100,000 females, age-adjusted to the 2000 US standard population, with 95% confidence intervals. Incidence data provisional, November 2013.

Source: New York State Cancer Registry: Most Recent Data Available; Cancer Site sorted by 2007-2011 incidence rate – descending order; NY State Rates Not Shown

Cancer Incidence: Rate/100,000 By Gender

LONG BEACH/HEMPSTEAD and NASSAU

COMPARISON – BY CANCER SITE

Site of Cancer	MALES: INCIDENCE			FEMALES: INCIDENCE		
	2007-2011 Hempstead and Long Beach	2007-2011 Nassau County	LB/Hemp vs. Nassau Cty	2007-2011 Hempstead and Long Beach	2007-2011 Nassau County	LB/Hemp vs. Nassau Cty
All Invasive Malignant Tumors	592.0	567.7	24.30	474.3	442.7	31.60
Brain and other nervous system	8.0	7.7	0.30	5.6	5.6	-
Cervix uteri	-	-	-	6.9	8.1	(1.20)
Colon excluding rectum	35.6	35.9	(0.30)	27.9	29.6	(1.70)
Colorectal	50.7	51.6	(0.90)	38.3	39.8	(1.50)
Corpus uterus and NOS	-	-	-	31.9	30.2	1.70
Esophagus	6.8	8.5	(1.70)	1.8	2.2	(0.40)
Female breast	-	-	-	141	128.6	12.40
Hodgkin lymphoma	3.8	3.8	-	3.3	2.9	0.40
Kidney and renal pelvis	26.8	22.5	4.30	11.5	10.8	0.70
Larynx	5.1	6.6	(1.50)	1.1	1.5	(0.40)
Leukemias	20.0	19.2	0.80	12.1	11.4	0.70
Liver / intrahepatic bile duct	11.8	13.0	(1.20)	3.3	4.1	(0.80)
Lung and bronchus	67.2	66.0	1.20	58.1	57.8	0.30
Melanoma of the skin	30.4	22.2	8.20	16.8	13.8	3.00
Myeloma	10.3	9.2	1.10	6.5	6.1	0.40
Non-Hodgkin lymphomas	29.0	26.4	2.60	20.9	18.1	2.80
Oral cavity and pharynx	13.1	15.7	(2.60)	6	6.3	(0.30)
Ovary	-	-	-	13.6	13	0.60
Pancreas	17.8	15.7	2.10	12.3	12	0.30
Prostate	167.8	163.4	4.40	-	-	-
Rectum & rectosigmoid	15.1	15.7	(0.60)	10.4	10.2	0.20
Stomach	11.5	12.2	(0.70)	6.4	6	0.40
Testis	5.6	5.9	(0.30)	-	-	-
Thyroid	11.1	8.7	2.40	26.5	25.2	1.30
Urinary bladder (incl. in situ)	45.0	41.9	3.10	11.4	10.6	0.80

- Males in Long Beach/Hempstead have higher incidence rates for all cancers, Brain, Kidney, Leukemia, Melanoma, Myeloma, Non-Hodgkin Lymphoma, Pancreas, Prostate, Thyroid and Bladder cancers than the County.
- Females have higher rates of all cancers, Uterine, Breast, Hodgkin Lymphomas, Kidney, Lung, Melanoma, Myeloma, Non-Hodgkin Lymphoma, Ovarian, Pancreas, Rectum, Stomach, Thyroid and Bladder cancers than the County.

Rates are per 100,000 males/females, age-adjusted to the 2000 US standard population, with 95% confidence intervals. Incidence data provisional, November 2013.

Source: New York State Cancer Registry: Most Recent Data Available

Cancer Incidence Rates, 2007-2011

OVERALL AND FOR TOP FOUR CANCERS: SELECT GEOGRAPHIC COHORTS

OVERALL AND FOR TOP FOUR CANCERS Incidence by Select ZIP Code Based Geographic Cohort, 2007-2011								
CANCER SITE	Long Beach/Hempstead		NY State		Nassau County		Queens County	
	Male	Female	Male	Female	Male	Female	Male	Female
All	592.0	474.3	580.8	451.4	596.2	486.2	524.7	399.5
Prostate	167.8	--	163.4	--	170.6	--	155.2	--
Breast	--	141.0	--	128.6	--	147.5	--	114.5
Colorectal	50.7	38.3	51.6	39.8	48.7	37.1	54.0	39.9
Lung & Bronchus	67.2	58.1	75.5	55.7	66.0	57.8	63.8	41.1

Source: New York State Cancer Registry
Incidence data are most recent available

- Nassau County had the highest overall incidence rates for All Cancers (male and female), Prostate and Breast Cancer.
- Queens County had the highest rates of Colorectal Cancer.
- Long Beach/Hempstead had the highest rate of Lung and Bronchus Cancers.

Cancer Incidence: Prostate

INCIDENCE OF SPECIFIC CANCERS: SELECT GEOGRAPHIC COHORTS

PROSTATE CANCER Incidence by Select ZIP Code Based Geographic Cohort, 2005-2009

SERVICE AREA	Number of Cases Observed	Number of Cases Expected	Percent Difference from Expected
PSA	2,281	2,210	Within 15% of expected
SSA	2,551	2,150	15 to 49% above expected
LONG BEACH*	168	215	15 to 50% below expected
NASSAU COUNTY	6,340	6,224	Within 15% of expected
QUEENS COUNTY	7,796	8,761	Within 15% of expected

* Includes Long Beach/Point Lookout/Atlantic Beach ZIP Codes

Source: New York State Cancer Registry

Incidence data are most recent ZIP Level Available

- **Between 2005-2009, cancer incidence for Prostate Cancer among Long Beach Island men occurred 15-50% below the expected rate.**

Cancer Incidence: Breast

INCIDENCE OF SPECIFIC CANCERS: SELECT GEOGRAPHIC COHORTS

BREAST CANCER AMONG FEMALES Incidence by Select ZIP Code Based Geographic Cohort, 2005-2009

SERVICE AREA	Number of Cases Observed	Number of Cases Expected	Percent Difference from Expected
PSA	2,293	2,055	Within 15% of expected
SSA	2,176	2,038	Within 15% of expected
LONG BEACH*	206	199	Within 15% of expected
NASSAU COUNTY	6,379	5,501	Within 15% of expected
QUEENS COUNTY	7,164	8,482	15 to 50% below expected

* Includes Long Beach/Point Lookout/Atlantic Beach ZIP Codes

Source: New York State Cancer Registry

Incidence data are most recent ZIP Level Available

- **Cancer incidence for Breast Cancer occurred within 15% of the expected number among Long Beach women.**

Cancer Incidence: Colorectal Cancer

INCIDENCE OF SPECIFIC CANCERS: SELECT GEOGRAPHIC COHORTS

COLORECTAL CANCER Incidence by Select ZIP Code Based Geographic Cohort, 2005-2009

SERVICE AREA	MALES			FEMALES		
	Number of Cases Observed	Number of Cases Expected	Percent Difference from Expected	Number of Cases Observed	Number of Cases Expected	Percent Difference from Expected
PSA	695	696	Within 15% of expected	749	726	Within 15% of expected
SSA	688	676	Within 15% of expected	709	702	Within 15% of expected
LONG BEACH*	50	70	15 to 50% below expected	66	76	15 to 50% below expected
NASSAU COUNTY	1,864	1,962	Within 15% of expected	1,935	1,947	Within 15% of expected
QUEENS COUNTY	2,671	2,776	Within 15% of expected	2,820	2,959	Within 15% of expected

* Includes Long Beach/Point Lookout/Atlantic Beach ZIP Codes

Source: New York State Cancer Registry

Incidence data are most recent ZIP Level Available

- Colorectal cancers among male and female residents of Long Beach were 15-50% below expected.

Cancer Incidence: Lung and Bronchus Cancer

INCIDENCE OF SPECIFIC CANCERS: SELECT GEOGRAPHIC COHORTS

LUNG AND BRONCHUS CANCER Incidence by Select ZIP Code Based Geographic Cohort, 2005-2009

SERVICE AREA	MALES			FEMALES		
	Number of Cases Observed	Number of Cases Expected	Percent Difference from Expected	Number of Cases Observed	Number of Cases Expected	Percent Difference from Expected
PSA	862	978	Within 15% of expected	922	941	Within 15% of expected
SSA	863	952	Within 15% of expected	925	929	Within 15% of expected
LONG BEACH*	83	98	15 to 50% below expected	93	94	Within 15% of expected
NASSAU COUNTY	2,323	2,775	15 to 50% below expected	2,603	2,555	Within 15% of expected
QUEENS COUNTY	3,071	3,862	15 to 50% below expected	2,727	3,847	15 to 50% below expected

* Includes Long Beach/Point Lookout/Atlantic Beach ZIP Codes

Source: New York State Cancer Registry

Incidence data are most recent ZIP Level Available

- Long Beach males experienced Lung & Bronchus Cancers that were 15-50% below the expected number.
- Long Beach females experienced Lung & Bronchus Cancers that were within 15% of expected number.



SOUTH NASSAU COMMUNITIES HOSPITAL

UTILIZATION OF ACUTE CARE SERVICES

*Prepared By: New Solutions, Inc.
April 2015*

Inpatient Utilization

RATES PER 1,000

INPATIENT UTILIZATION RATES PER 1,000					
SERVICE AREAS	RATE PER 1,000			CHANGE '11-'13	
	2011	2012	2013	#	%
LONG BEACH	150.68	139.07	126.78	-23.90	-15.9%
SNCH PSA	136.73	126.95	122.45	-14.28	-10.4%
SNCH SSA	127.98	120.47	115.47	-12.51	-9.8%
COMBINED PSA/SSA	132.40	123.74	118.99	-13.41	-10.1%
NASSAU COUNTY	123.50	115.82	111.00	-12.5	-10.1%
SUFFOLK COUNTY	123.75	120.30	115.86	-7.89	-6.4%
QUEENS COUNTY	112.82	109.32	103.98	-8.84	-7.8%
KINGS COUNTY	125.37	123.92	115.94	-9.43	-7.5%
4-COUNTY TOTAL	121.02	117.47	111.52	-9.50	-7.8%

- Inpatient utilization is dropping across all geographies.
- Long Beach Island has seen the most dramatic decrease (16%) between 2011-2013.
- Long Beach Island residents have the highest inpatient utilization rate of all of the geographies studied.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes
 Source: NY 2011-2013 IP UB-04- SPARCS; Population Data – Straight Line Projection Based on 2010-2015 Nielsen-Claritas

Emergency Department Utilization

RATES PER 1,000 (INCLUDES TREAT/RELEASE AND ADMITS THROUGH ED)

SERVICE AREAS	ED UTILIZATION RATES PER 1,000			CHANGE '11-'13	
	RATE PER 1,000 POPULATION			#	%
	2011	2012	2013		
LONG BEACH*	357.84	347.52	277.91	-79.93	-22.3%
SNCH PSA	362.06	359.34	342.05	-20.01	-5.5%
SNCH SSA	359.23	359.56	340.09	-19.14	-5.3%
COMBINED PSA/SSA	360.66	359.45	341.08	-19.58	-5.4%
NASSAU COUNTY	300.24	301.00	292.07	-8.16	-2.7%
SUFFOLK COUNTY	363.62	371.37	361.22	-2.40	-0.7%
QUEENS COUNTY	375.45	384.44	370.58	-4.87	-1.3%

Emergency Department use rates per 1,000 were down between 2011-2013 across the region.

- The largest decrease (22%) occurred among Long Beach Island residents.
- Residents of other regions experienced decreases of 0.7% to 6%.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes
 Source: NY 2011-2013 ED UB-04- SPARCS; Population Data – Straight Line Projection Based on 2010-2015 Nielsen-Claritas

Inpatient Surgery: By Major Service Line

TOTAL and 15 HIGHEST RATES/1,000 POPULATION AMONG LONG BEACH POPULATION

SURGICAL SERVICE LINE	LONG BEACH*				PSA				SSA				NASSAU CTY		
	2011 Rate	2013 Rate	% Rate Change	+/- Nassau Cty 2013 Rate	2011 Rate	2013 Rate	% Rate Change	+/- Nassau Cty 2013 Rate	2011 Rate	2013 Rate	% Rate Change	+/- Nassau Cty 2013 Rate	2011 Rate	2013 Rate	% Rate Change
Total IP Surgical Rate/1,000	37.53	33.09	(4.44)	0.45	33.98	32.07	(1.91)	(0.57)	33.97	31.99	(1.98)	(0.65)	34.94	32.64	(2.30)
Orthopedics - Joint Replacement	3.98	4.54	0.56	0.87	2.87	3.14	0.27	(0.53)	2.70	3.25	0.55	(0.42)	3.32	3.67	0.35
Obstetrics - Delivery	3.67	3.63	(0.04)	(0.23)	4.52	4.46	(0.06)	0.61	4.41	4.12	(0.29)	0.27	3.96	3.85	(0.11)
Cardiac Service - Interventional Cardiology	3.28	3.00	(0.28)	0.22	2.88	2.44	(0.44)	(0.35)	2.98	2.74	(0.24)	(0.04)	3.17	2.79	(0.38)
Orthopedics - Surg Trauma Orthopedics	1.95	1.58	(0.37)	0.00	1.53	1.44	(0.09)	(0.14)	1.37	1.36	(0.01)	(0.22)	1.67	1.58	(0.09)
General Surgery - Other Gen Surg	2.58	1.51	(1.07)	0.04	1.81	1.65	(0.16)	0.18	1.59	1.55	(0.03)	0.08	1.57	1.47	(0.09)
General Surgery - Colorectal/Lower Gi	1.93	1.34	(0.59)	(0.08)	1.41	1.37	(0.04)	(0.05)	1.54	1.31	(0.23)	(0.11)	1.51	1.42	(0.09)
Spine - Fusion	1.18	1.34	0.16	0.05	1.08	1.28	0.20	(0.02)	1.18	1.20	0.02	(0.10)	1.18	1.30	0.12
Vascular Service - Arterial Disease	1.59	1.30	(0.30)	0.09	1.28	1.15	(0.13)	(0.06)	1.38	1.26	(0.11)	0.06	1.39	1.20	(0.19)
General Surgery - Cholecystectomy	1.11	1.15	0.04	(0.00)	1.29	1.11	(0.18)	(0.04)	1.34	1.13	(0.21)	(0.02)	1.29	1.15	(0.14)
Gynecology - Gen Surg Gyn	1.59	1.10	(0.49)	(0.01)	1.66	1.35	(0.31)	0.24	1.79	1.46	(0.33)	0.34	1.48	1.11	(0.37)
Urology - Urinary System	0.94	1.10	0.16	0.07	1.17	1.04	(0.14)	0.01	1.07	1.07	0.00	0.04	1.16	1.03	(0.13)
General Surgery - Breast	0.70	0.79	0.09	0.13	0.67	0.62	(0.04)	(0.04)	0.72	0.59	(0.13)	(0.07)	0.75	0.66	(0.09)
Cardiac Service - Cardiac Surg	0.60	0.77	0.16	(0.00)	0.53	0.65	0.11	(0.13)	0.53	0.63	0.10	(0.14)	0.64	0.77	0.14
Cardiac Service - Cardiac Ep-Defibrillators	0.68	0.70	0.02	0.10	0.65	0.60	(0.05)	0.00	0.72	0.59	(0.13)	(0.00)	0.71	0.59	(0.12)
Thoracic Surgery - Other Thoracic Surg	1.01	0.67	(0.34)	(0.10)	0.80	0.72	(0.09)	(0.06)	0.79	0.66	(0.13)	(0.11)	0.90	0.77	(0.13)
ALL OTHER	10.72	8.55	(2.17)	(0.71)	9.83	9.06	(0.76)	(0.20)	9.86	9.05	(0.82)	(0.21)	10.23	9.26	(0.98)

Inpatient Surgical use rates decreased 4% among Long Beach residents between 2011-2013.

- The decrease was larger than that experienced by residents in the PSA, SSA and County.
- The largest decrease was in General Surgery cases and might be indicative of a postponement of elective surgeries.
- The highest use rates among Long Beach residents occurred in Joint Replacements, Obstetrics, Interventional Cardiology, Orthopedics, General Surgery, and Colorectal Surgeries.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes

Source: NY 2011 and 2013 IP UB-04- SPARCS; Surgical MS-DRG Discharges by Major Service Line; Population Data – Straight Line Projection Based on 2010-2015 Nielsen-Claritas

Ambulatory Surgery**: By CPT Service Line

TOTAL and HIGHEST RATES/1,000 POPULATION AMONG LONG BEACH POPULATION

Ambulatory Surgery Rates/1,000 Population By CPT Service Line – 2011 & 2013

SURGICAL SERVICE LINE	LONG BEACH*				PSA				SSA				NASSAU CTY		
	2011 Rate	2013 Rate	% Rate Change	+/- Nassau Cty 2013 Rate	2011 Rate	2013 Rate	% Rate Change	+/- Nassau Cty 2013 Rate	2011 Rate	2013 Rate	% Rate Change	+/- Nassau Cty 2013 Rate	2011 Rate	2013 Rate	% Rate Change
Total AMB SURG Rate/1,000	40.79	39.88	-0.91	-7.28	41.03	44.25	3.22	-2.91	39.17	44.36	5.19	-2.80	42.03	47.16	5.13
Urinary System	21.60	19.09	-2.51	-7.71	24.19	22.32	-1.87	-4.48	22.97	24.59	1.61	-2.21	25.69	26.80	1.11
Digestive System	9.29	10.47	1.18	-0.32	8.96	11.81	2.85	1.02	9.18	11.50	2.32	0.71	8.69	10.79	2.10
Nervous System	3.84	5.71	1.88	1.29	2.63	5.30	2.68	0.88	2.31	3.43	1.12	-0.99	2.62	4.43	1.80
Musculoskeletal Sys	2.85	3.05	0.20	-0.19	2.60	3.15	0.54	-0.09	2.47	2.94	0.46	-0.30	2.73	3.24	0.50
Integumentary System	0.34	0.55	0.21	0.01	0.36	0.52	0.15	-0.02	0.42	0.57	0.15	0.03	0.38	0.54	0.17
Surgery - Cardiovascular Sys	1.28	0.10	-1.18	-0.23	0.99	0.27	-0.72	-0.05	0.99	0.38	-0.60	0.06	0.89	0.32	-0.56
Eye / Ocular Adnexa	0.10	0.10	0.00	-0.07	0.08	0.16	0.08	-0.01	0.09	0.14	0.05	-0.03	0.09	0.17	0.08
Respiratory System	0.19	0.10	-0.10	-0.19	0.11	0.16	0.05	-0.13	0.21	0.21	-0.01	-0.07	0.22	0.28	0.07
Male Genital System	0.07	0.05	-0.02	-0.02	0.07	0.05	-0.03	-0.02	0.07	0.07	0.00	0.00	0.08	0.06	-0.01
All Other Ambulatory Surgery	1.23	0.67	-0.56	0.13	1.04	0.52	-0.51	-0.02	0.45	0.54	0.09	-0.01	0.65	0.54	-0.11

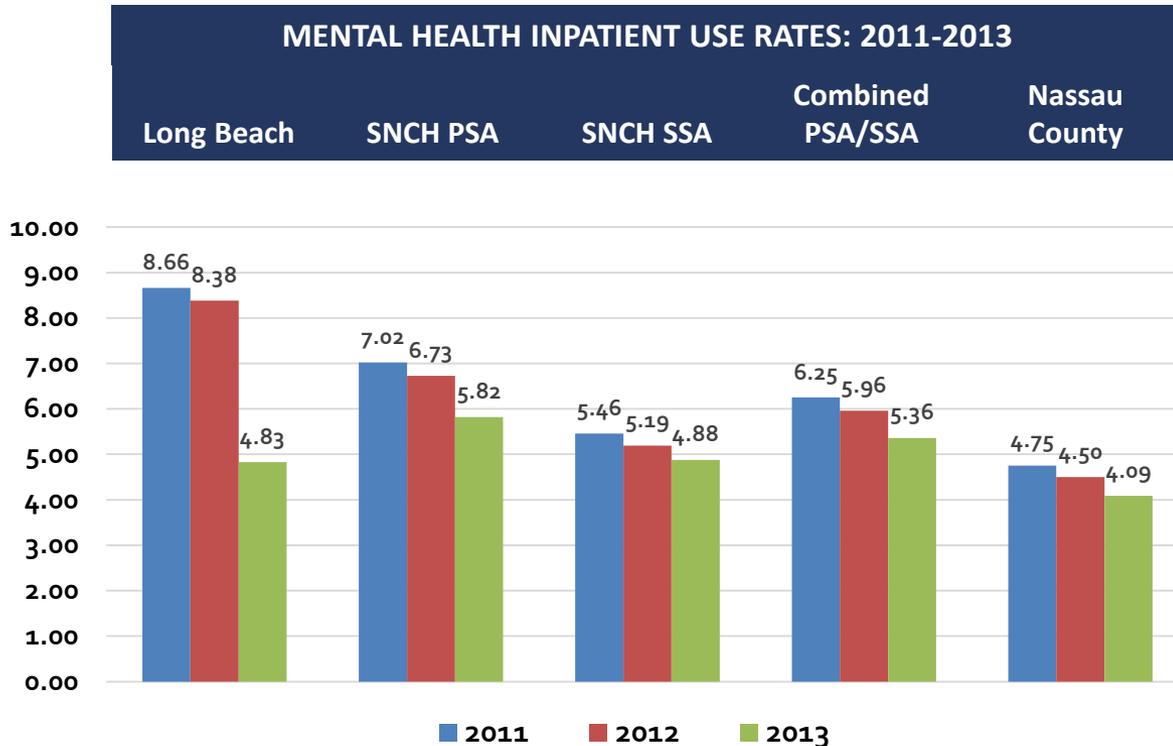
- Outpatient Surgical cases decreased by less than 1% between 2011 and 2013 in Long Beach compared to increases of 3-5% in the PSA, SSA, and Nassau County.
- The largest decrease in Ambulatory Surgery was in Urinary and Cardiovascular System Surgeries.
- Increases occurred in Digestive System and Nervous System Surgical Procedures.

**Ambulatory Surgery Data Based on SPARCS Claim Type "Ambulatory Surgery" and Market Expert CPT Product Lines (CPTs 1-10 on patient record)

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes

Source: NY 2011 and 2013 ASU UB-04- SPARCS; Population Data – Straight Line Projection Based on 2010-2015 Nielsen-Claritas

Mental Health Inpatient Use Rates, 2011-2013



Mental Health use rates are down among all the geographic areas.

- Between 2011 and 2013 the use rate for inpatient mental health services among Long Beach residents decreased 44% -- the largest of all the geographic areas.
- The largest decrease occurred among those age 65+ (64%) and those 18-64 (41%).*
- Those 18-64 make up the largest cohort of patients admitted for mental health disease. *

*Data not shown
 Most current data available
 Source: 2011 2013 UB-04- SPARCS;

ED & Outpatient Utilization: Mental Health

RATES PER 1,000 (ED INCLUDES TREAT/RELEASE AND ADMITS THROUGH ED)

DEFINITION: MAJOR DIAGNOSTIC CATEGORY (MDC) 19

ED MENTAL HEALTH UTILIZATION RATES PER 1,000					
SERVICE AREAS	RATE PER 1,000 POPULATION			CHANGE '11-'13	
	2011	2012	2013	#	%
LONG BEACH*	14.19	14.59	9.65	-4.54	-32.0%
SNCH PSA	13.64	13.83	12.87	-0.77	-5.7%
SNCH SSA	12.17	12.63	12.06	-0.11	-0.9%
COMBINED PSA/SSA	12.91	13.23	12.47	-0.44	-3.4%
NASSAU COUNTY					
NASSAU COUNTY	9.34	9.93	9.55	0.21	2.2%
SUFFOLK COUNTY					
SUFFOLK COUNTY	10.58	11.06	10.96	0.38	3.6%
QUEENS COUNTY					
QUEENS COUNTY	12.75	12.67	12.68	-0.07	-0.5%

- The ED Mental Health visit rate for Long Beach Island residents dropped 32% between 2011 and 2013.
- In 2013, the Long Beach Island rate (9.7/1,000) was only slightly higher than the County rate and lower than the service area (12.5/1,000).

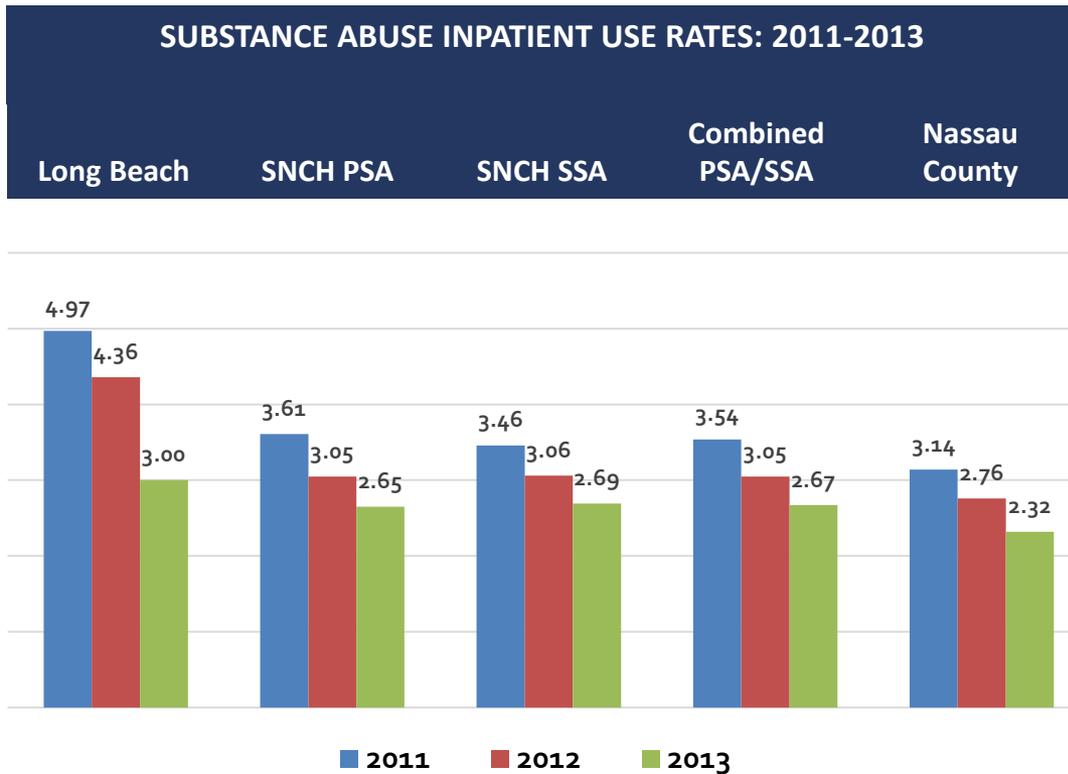
OUTPATIENT MENTAL HEALTH UTILIZATION RATES PER 1,000					
SERVICE AREAS	RATE PER 1,000 POPULATION			CHANGE '11-'13	
	2011	2012	2013	#	%
LONG BEACH*	154.23	136.38	42.50	-111.73	-72.4%
SNCH PSA	65.49	61.71	43.73	-21.76	-33.2%
SNCH SSA	59.51	57.65	52.56	-6.95	-11.7%
COMBINED PSA/SSA	62.52	59.70	48.11	-14.41	-23.1%
NASSAU COUNTY					
NASSAU COUNTY	32.77	31.28	24.73	-8.04	-24.5%
SUFFOLK COUNTY					
SUFFOLK COUNTY	Omitted: Data Not Reliable				
QUEENS COUNTY					
QUEENS COUNTY	88.95	89.36	86.72	-2.23	-2.5%

- Outpatient Mental Health utilization among Long Beach residents fell 72% between 2011-2013.
- The Outpatient Mental Health visit rate prior to the storm was more than double that of the service area. It is now lower (42.5/1,000) than the service area (48.1/1,000) but nearly double the County rate (24.7/1,000).

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes

Source: NY 2011-2013 ED/OP UB-04- SPARCS; Population Data – Straight Line Projection Based on 2010-2015 Nielsen-Claritas

Substance Abuse Inpatient Use Rates, 2011-2013



Inpatient Substance Abuse admissions are down across all geographies.

- Use rates among Long Beach residents declined by 40%, compared to 26% in Nassau County.
- Use rates on Long Beach Island are 23% higher than the County use rate.

ED Utilization: Substance Abuse

RATES PER 1,000 (ED INCLUDES TREAT/RELEASE AND ADMITS THROUGH ED)

DEFINITION: MAJOR DIAGNOSTIC CATEGORY (MDC) 20

SERVICE AREAS	ED UTILIZATION RATES PER 1,000			CHANGE '11-'13	
	RATE PER 1,000 POPULATION			#	%
	2011	2012	2013		
LONG BEACH*	10.81	10.30	8.09	-2.72	-25.2%
SNCH PSA	7.56	7.61	7.11	-0.45	-6.0%
SNCH SSA	6.77	6.93	6.59	-0.19	-2.7%
COMBINED PSA/SSA	7.17	7.27	6.85	-0.32	-4.5%
NASSAU COUNTY	6.16	6.31	5.90	-0.26	-4.2%
SUFFOLK COUNTY	7.94	8.25	8.23	0.29	3.7%
QUEENS COUNTY	8.16	8.25	8.32	0.17	2.1%

- The ED visit rate for Substance Abuse has declined in the PSA, SSA, Long Beach Island, and in Nassau County.
- The Long Beach decline (25%) was significantly higher than the other areas which saw declines of 3-6%.
- Despite the decline, the Long Beach rate remains higher than the PSA, SSA or Nassau County.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes

Source: NY 2011-2013 IP/ED UB-04- SPARCS; Population Data – Straight Line Projection Based on 2010-2015 Nielsen-Claritas

Maternal Child Health

SELECT INDICATORS: NASSAU COUNTY CITIES/VILLAGES > 10,000 POPULATION

Selected Statistics for Cities and Villages Over 10,000 Population

CITY OR VILLAGE	Birth Rate		Low Birthweight (% of Births)		Infant Death Rate		Neonatal Death Rate		Cesarean Deliveries (% of Total Pregnancies)	
	2012	2010	2012	2010	2012	2010	2012	2010	2012	2010
Long Beach (C)	10.1	10.8	7.1%	8.4%	0.0	2.8	0.0	0.0	37.5%	36.6%
Hempstead (V)	18.9	19.5	9.4%	10.5%	6.8	5.7	4.8	3.8	30.4%	25.3%
Freeport (V)	14.0	14.2	8.4%	6.1%	9.9	9.8	5.0	6.6	36.3%	31.7%
Valley Stream (V)	9.4	10.1	9.4%	10.6%	2.8	8.0	2.8	8.0	31.4%	25.3%
Glen Cove (C)	11.1	11.8	6.3%	10.7%	3.3	12.6	3.3	6.3	32.1%	32.1%
Rockville Centre (V)	9.3	9.1	6.3%	5.0%	4.5	0.0	0.0	0.0	35.7%	30.0%
Garden City (V)	9.6	8.2	5.6%	6.0%	4.6	5.4	0.0	5.4	34.0%	31.3%
Lynbrook (V)	10.9	10.6	5.2%	8.3%	4.7	4.9	0.0	4.9	35.2%	41.4%
Mineola (V)	11.6	12.4	9.1%	7.7%	0.0	4.3	0.0	4.3	34.0%	29.8%
Massapequa Park (V)	9.6	11.0	3.6%	9.1%	0.0	5.3	0.0	5.3	43.3%	45.9%
Floral Park (V)	8.8	8.2	5.7%	6.2%	0.0	0.0	0.0	0.0	41.3%	28.7%
Westbury (V)	12.6	13.5	8.8%	5.9%	10.4	14.7	5.2	14.7	24.6%	18.6%

(C) = City, (V) = Village

- Long Beach Island residents have among the lowest birth rates of the selected villages and cities in Nassau County.
- The percent of low birth weight babies is decreasing and appears to be in the mid-range of other cities/villages in the County.
- There were no infant or neonatal deaths in 2012.
- C-section rates are rising among Long Beach females, and are among the highest in the selected cities and villages.

Teen Birth Rates

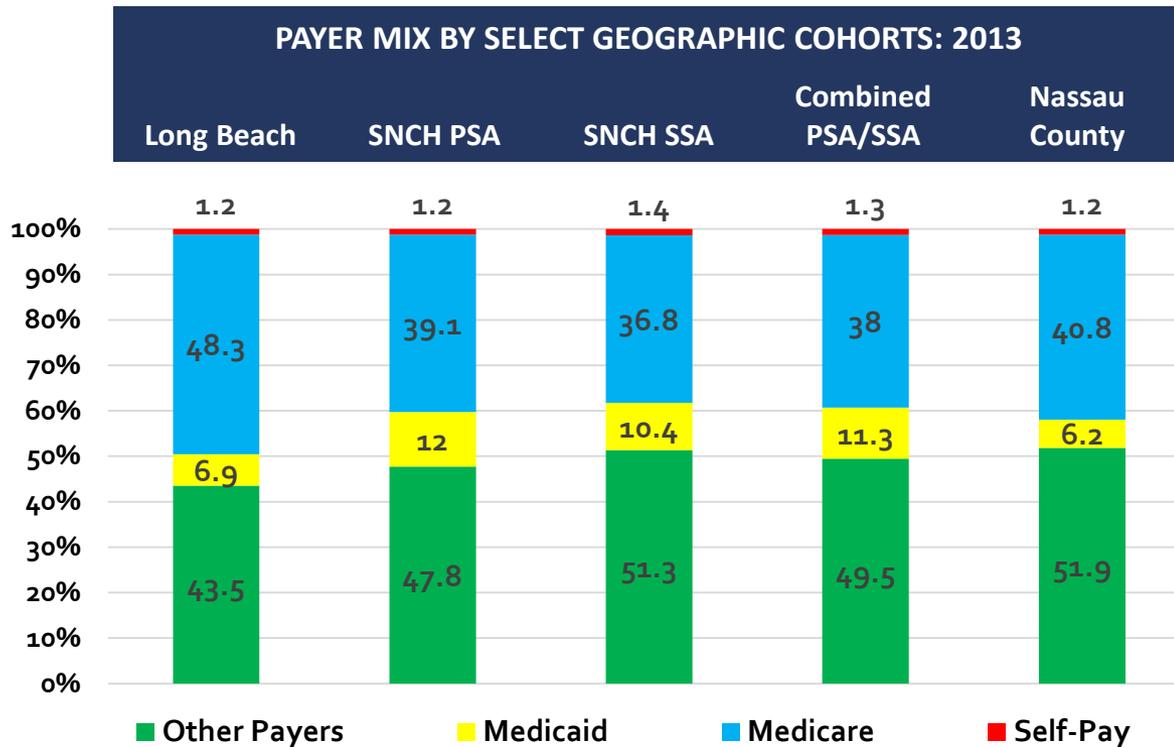
AGES 15-19, 2013

TEEN BIRTH RATES, AGES 15-19, 2013	
SERVICE AREAS	RATE PER 1,000
LONG BEACH*	3.26
SNCH PSA	14.56
SNCH SSA	8.96
COMBINED PSA/SSA	11.71
NASSAU COUNTY	7.90
SUFFOLK COUNTY	10.98
QUEENS COUNTY	16.03
KINGS COUNTY	19.10
4-COUNTY TOTAL	14.42

- Long Beach had the lowest teen birth rate in 2013.
- The highest teen birth rates occurred in Kings County, Queens and SNCH PSA.

Source: SPARCS UB-04 Discharges (2013).
 Population: 2010, 2015 Nielsen-Claritas (Intervening Years – Straight Line Estimate)
 *Long Beach Includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes

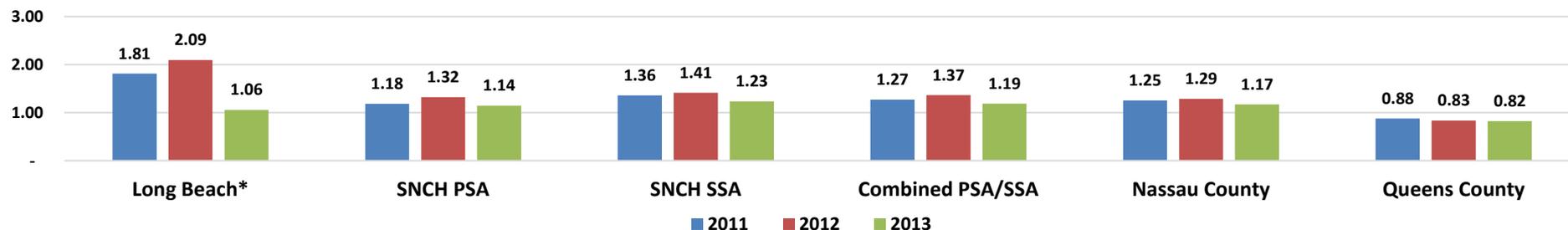
Payer Mix by Select Areas, 2013



- The Long Beach payer mix is largely dependent on government payers.
- Nassau County has the highest mix of Commercial Payers.

Disease Utilization: Heart Attack

ACUTE CARE IP, ED, ASU DISCHARGES; RATE / 1,000 POPULATION



- The Long Beach heart attack rate/1,000 population decreased from 1.8 in 2011 to 1.1 in 2013 following an increase in 2012. The 2013 rate, while 10% lower than Nassau County's is largely now more in line with the Service Area, Nassau and Queens Counties. Rates/1,000 decreased among all geographic comparatives, though not as dramatically as the decrease among Long Beach residents.
- There were decreases among inpatient discharges from Long Beach, the SSA, combined PSA/SSA, Nassau County and Queens County.
- While the number of Long Beach ED and ASU discharges for heart attack decreased rather drastically by (27) from 2011 to 2013, the number of inpatient discharges for heart attack declined by just (4) over the period.

GEOGRAPHIC SEGMENT	RATE/1,000 Pop (IP/ED/ASU)						HEART ATTACK ED & ASU DISCHARGES				INPATIENT DISCHARGES		
	2011	2012	2013	Rate Change '11-'13	% '13 Variance to '13 Nassau Cty	NYAE11	NYAE12	NYAE13	ED/ASU Discharge Change '11-'13	NYS11	NYS12	NYS13	IP Discharge Change '11-'13
Long Beach*	1.81	2.09	1.06	(0.75)	-10%	30	30	3	(27)	45	57	41	(4)
PSA	1.18	1.32	1.14	(0.04)	-2%	105	95	73	(32)	517	604	535	18
SSA	1.36	1.41	1.23	(0.12)	5%	157	178	174	17	546	557	471	(75)
Combined PSA/SSA	1.27	1.37	1.19	(0.08)	1%	262	273	247	(15)	1,063	1,161	1,006	(57)
Nassau County	1.25	1.29	1.17	(0.08)		328	368	326	(2)	1,371	1,381	1,275	(96)
Queens County	0.88	0.83	0.82	(0.06)	-30%	152	132	232	80	1,826	1,754	1,600	(226)

Source: SPARCS UB-04 Discharges (2011 – 2013),

Population: 2010, 2015 Nielsen-Claritas (Intervening Years – Straight Line Estimate)

Definition: Inpatient, ED and ASU Discharges for MS-DRGs 280-285

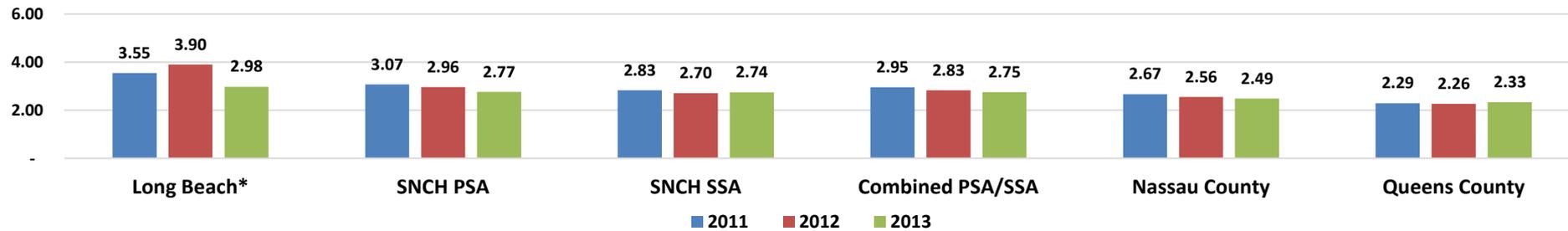
*Long Beach Includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes

Indicates a decreasing (favorable) 3 Year figure and/or a lower rate than Nassau County

Indicates an increasing (unfavorable) 3 Year figure and/or a higher rate than Nassau County

Disease Utilization: Stroke/TIA

ACUTE CARE IP, ED, ASU DISCHARGES; RATE / 1,000 POPULATION



- The Long Beach stroke/TIA rate/1,000 population decreased from 3.6 in 2011 to 3.0 in 2013 following an increase in 2012. The 2013 Long Beach, PSA and SSA rates all decreased over the period but each remains higher than the Nassau County figure. Long Beach's rate exceeds the Nassau County figure by the highest percentage (20% higher).
- There were decreases among inpatient discharges from Long Beach and all geographic comparatives.
- The number of Long Beach ED and ASU discharges for Stroke/TIA decreased by (10) from 2011 to 2013. All other geographic cohorts experienced increased ED/ASU discharges over the period.

GEOGRAPHIC SEGMENT	RATE/1,000 Pop (IP/ED/ASU)						STROKE/TIA ED & ASU DISCHARGES				INPATIENT DISCHARGES			
	2011	2012	2013	Rate Change '11-'13	% '13 Variance to '13 Nassau Cty	NYAE11	NYAE12	NYAE13	ED/ASU Discharge Change '11-'13	NYS11	NYS12	NYS13	IP Discharge Change '11-'13	
	Long Beach*	3.55	3.90	2.98	(0.57)	20%	23	25	13	(10)	124	137	111	(13)
PSA	3.07	2.96	2.77	(0.30)	11%	168	188	184	16	1,449	1,376	1,285	(164)	
SSA	2.83	2.70	2.74	(0.09)	10%	172	211	225	53	1,293	1,196	1,208	(85)	
Combined PSA/SSA	2.95	2.83	2.75	(0.20)	11%	340	399	409	69	2,742	2,572	2,493	(249)	
Nassau County	2.67	2.56	2.49	(0.18)		421	476	465	44	3,197	3,000	2,930	(267)	
Queens County	2.29	2.26	2.33	0.04	-6%	637	716	824	187	4,504	4,407	4,365	(139)	

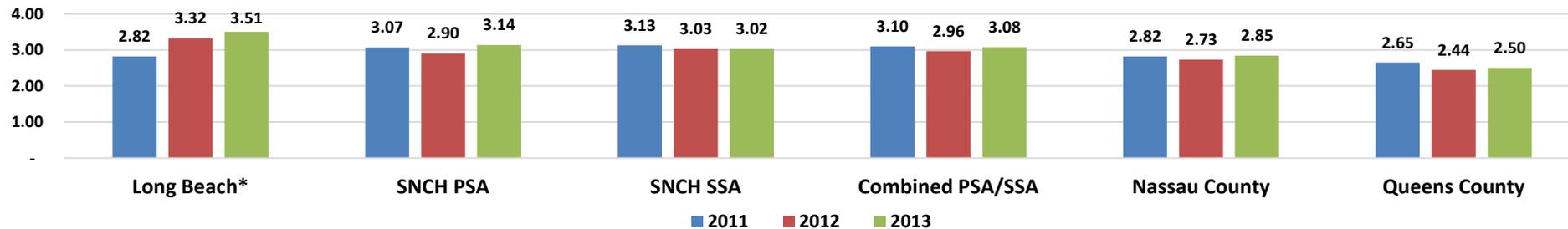
Source: SPARCS UB-04 Discharges (2011 – 2013),
 Population: 2010, 2015 Nielsen-Claritas (Intervening Years – Straight Line Estimate)
 Definition: Inpatient, ED and ASU Discharges for MS-DRGs 061-069
 *Long Beach Includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes

Indicates a decreasing (favorable) 3 Year figure and/or a lower rate than Nassau County

Indicates an increasing (unfavorable) 3 Year figure and/or a higher rate than Nassau County

Disease Utilization: Heart Failure/CHF

ACUTE CARE IP, ED, ASU DISCHARGES; RATE / 1,000 POPULATION



- The Long Beach heart failure/CHF rate/1,000 population increased from 2.8 in 2011 to 3.5 in 2013. While the 2013 Long Beach and PSA rates increased over the period the SSA experienced a decrease. Rates in Long Beach, the PSA and SSA all remain higher than the Nassau County rate with the greatest variance to Nassau County occurring in Long Beach (+23%).
- There were decreases among ED and ASU discharges from Long Beach, the PSA, SSA and Nassau County.
- The number of Long Beach and PSA inpatient discharges for heart failure increased as the SSA and Nassau County experienced declines.

GEOGRAPHIC SEGMENT	HEART FAILURE / CHF						ED & ASU DISCHARGES							
	RATE/1,000 Pop (IP/ED/ASU)						ED/ASU Discharge			INPATIENT DISCHARGES				
	2011	2012	2013	Rate Change '11-'13	% '13 Variance to '13 Nassau Cty		NYAE11	NYAE12	NYAE13	Change '11-'13	NYS11	NYS12	NYS13	IP Discharge Change '11-'13
Long Beach*	2.82	3.32	3.51	0.68	23%		14	21	15	1	103	117	131	28
PSA	3.07	2.90	3.14	0.06	10%		141	139	174	33	1,478	1,397	1,492	14
SSA	3.13	3.03	3.02	(0.11)	6%		126	146	154	28	1,495	1,428	1,426	(69)
Combined PSA/SSA	3.10	2.96	3.08	(0.02)	8%		267	285	328	61	2,973	2,825	2,918	(55)
Nassau County	2.82	2.73	2.85	0.03			274	309	368	94	3,551	3,406	3,512	(39)
Queens County	2.65	2.44	2.50	(0.15)	-12%		451	391	416	(35)	5,493	5,138	5,150	(343)

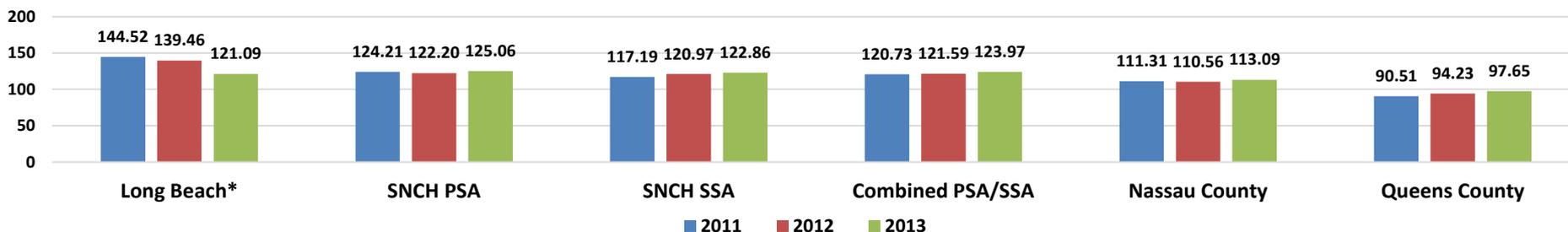
Source: SPARCS UB-04 Discharges (2011 – 2013),
 Population: 2010, 2015 Nielsen-Claritas (Intervening Years – Straight Line Estimate)
 Definition: Inpatient, ED and ASU Discharges for MS-DRGs 291-293
 *Long Beach Includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes

Indicates a decreasing (favorable) 3 Year figure and/or a lower rate than Nassau County

Indicates an increasing (unfavorable) 3 Year figure and/or a higher rate than Nassau County

Disease Utilization: Hypertension

ACUTE CARE IP, ED, ASU DISCHARGES; RATE / 1,000 POPULATION



- The Long Beach hypertension rate/1,000 population decreased from 144.5 in 2011 to 121.1 in 2013. Rates in all other geographic comparatives increased over the period. While the 2013 Long Beach rate decreased over the period it (along with the rates in the PSA and SSA) still exceeds the Nassau County figure.
- There were steep declines in inpatient discharges from 2011 to 2013 in all geographic cohorts.
- Other than Long Beach, there were increased ED/ASU discharges over the period.

GEOGRAPHIC SEGMENT	RATE/1,000 Pop (IP/ED/ASU)						HYPERTENSION ED & ASU DISCHARGES				HYPERTENSION INPATIENT DISCHARGES			
	2011	2012	2013	Rate Change '11-'13	% '13 Variance to '13 Nassau Cty	NYAE11	NYAE12	NYAE13	ED/ASU Discharge Change '11-'13	NYS11	NYS12	NYS13	IP Discharge Change '11-'13	
Long Beach*	144.52	139.46	121.09	(23.44)	7%	3,043	3,053	2,451	(592)	2,945	2,740	2,592	(353)	
PSA	124.21	122.20	125.06	0.85	11%	32,524	33,922	36,465	3,941	32,909	30,713	29,951	(2,958)	
SSA	117.19	120.97	122.86	5.67	9%	29,375	33,318	35,743	6,368	31,294	29,614	28,478	(2,816)	
Combined PSA/SSA	120.73	121.59	123.97	3.24	10%	61,899	67,240	72,208	10,309	64,203	60,327	58,429	(5,774)	
Nassau County	111.31	110.56	113.09	1.77		73,213	77,825	84,486	11,273	77,771	72,538	69,719	(8,052)	
Queens County	90.51	94.23	97.65	7.14	-14%	92,354	105,496	115,671	23,317	110,723	107,712	101,567	(9,156)	

Source: SPARCS UB-04 Discharges (2011 – 2013),

Population: 2010, 2015 Nielsen-Claritas (Intervening Years – Straight Line Estimate)

Definition: Inpatient, ED and ASU Discharges for ICD-9 DX Codes in Range 401-405.99 (Appearing Anywhere In First 13 DX Codes On Patient Record)

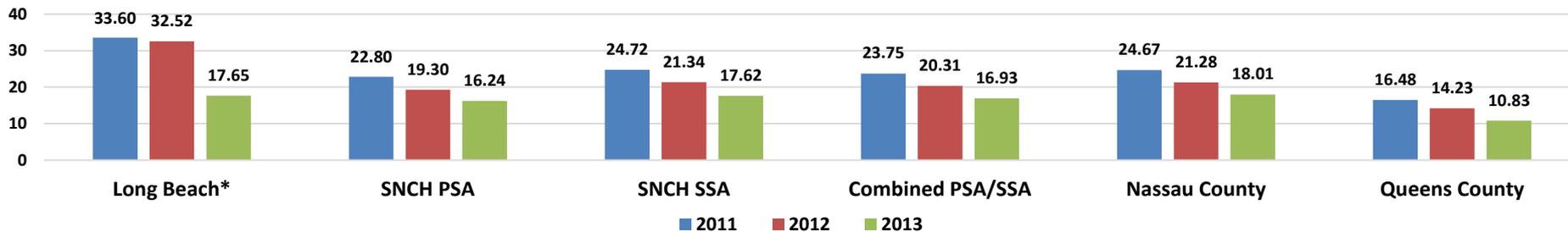
*Long Beach Includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes

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Disease Utilization: High Cholesterol

ACUTE CARE IP, ED, ASU DISCHARGES; RATE / 1,000 POPULATION



- The Long Beach high cholesterol rate/1,000 population decreased from 33.6 in 2011 to 17.7 in 2013. Rates in all other geographic comparatives decreased over the period. Despite the drastic drop in Long Beach, the rate remains higher than the PSA (16.2) and marginally higher than the SSA (17.6). Rates in all geographic comparatives are lower than the Nassau County figure (18.0).
- There were large decreases in all geographic cohorts among both inpatient and ED/ASU discharges related to high cholesterol.

GEOGRAPHIC SEGMENT	HIGH CHOLESTEROL						ED & ASU DISCHARGES			INPATIENT DISCHARGES				
	RATE/1,000 Pop (IP/ED/ASU)			% '13 Variance			NYAE11	NYAE12	NYAE13	ED/ASU Discharge Change '11-'13	NYS11	NYS12	NYS13	IP Discharge Change '11-'13
	2011	2012	2013	Rate Change '11-'13	Cty									
Long Beach*	33.60	32.52	17.65	(15.95)	-2%	688	772	404	(284)	704	579	331	(373)	
PSA	22.80	19.30	16.24	(6.55)	-10%	5,522	5,276	4,895	(627)	6,486	4,934	3,730	(2,756)	
SSA	24.72	21.34	17.62	(7.10)	-2%	6,054	6,150	5,326	(728)	6,744	4,949	3,885	(2,859)	
Combined PSA/SSA	23.75	20.31	16.93	(6.82)	-6%	11,576	11,426	10,221	(1,355)	13,230	9,883	7,615	(5,615)	
Nassau County	24.67	21.28	18.01	(6.66)		15,904	15,459	14,416	(1,488)	17,561	13,482	10,146	(7,415)	
Queens County	16.48	14.23	10.83	(5.65)	-40%	16,652	16,729	12,988	(3,664)	20,326	15,474	11,116	(9,210)	

Source: SPARCS UB-04 Discharges (2011 – 2013),

Population: 2010, 2015 Nielsen-Claritas (Intervening Years – Straight Line Estimate)

Definition: Inpatient, ED and ASU Discharges for ICD-9 DX Codes 272.0 or 272.2 (Appearing Anywhere In First 13 DX Codes On Patient Record)

*Long Beach Includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes

Indicates a decreasing (favorable) 3 Year figure and/or a lower rate than Nassau County

Indicates an increasing (unfavorable) 3 Year figure and/or a higher rate than Nassau County

Disease Utilization: Diabetes

ACUTE CARE IP, ED, ASU DISCHARGES; RATE / 1,000 POPULATION



- The Long Beach diabetes rate/1,000 population decreased from 61.5 in 2011 to 55.2 in 2012 to 47.3 in 2013. The PSA rate decreased marginally over the period. The rate in the SSA increased and Nassau County overall increased marginally.
- While rate trends were variable among geographic cohorts, all remain higher than the Nassau County figure with the PSA and SSA exceeding Nassau by 22% and 20%, respectively and Long Beach exceeding it by 4%.
- There were large decreases in all geographic cohorts among inpatient discharges related to diabetes.
- ED/ASU discharges increased among all comparatives except for Long Beach.

GEOGRAPHIC SEGMENT	DIABETES						ED & ASU DISCHARGES			INPATIENT DISCHARGES				
	RATE/1,000 Pop (IP/ED/ASU)													
	2011	2012	2013	Rate Change '11-'13	% '13 Variance to '13 Nassau Cty		NYAE11	NYAE12	NYAE13	ED/ASU Discharge Change '11-'13	NYS11	NYS12	NYS13	IP Discharge Change '11-'13
Long Beach*	61.45	55.20	47.33	(14.12)	4%		1,210	1,181	922	(288)	1,336	1,112	1,049	(287)
PSA	56.14	54.73	55.52	(0.63)	22%		14,272	14,853	15,409	1,137	15,303	14,094	14,074	(1,229)
SSA	51.50	52.74	54.71	3.21	20%		12,458	14,003	15,137	2,679	14,205	13,431	13,461	(744)
Combined PSA/SSA	53.84	53.74	55.12	1.27	21%		26,730	28,856	30,546	3,816	29,508	27,525	27,535	(1,973)
Nassau County	45.14	44.53	45.67	0.52			28,825	30,566	32,483	3,658	32,407	29,992	29,787	(2,620)
Queens County	44.92	47.01	49.72	4.80	9%		45,569	51,934	57,436	11,867	55,215	54,426	53,167	(2,048)

Source: SPARCS UB-04 Discharges (2011 – 2013),

Population: 2010, 2015 Nielsen-Claritas (Intervening Years – Straight Line Estimate)

Definition: Inpatient, ED and ASU Discharges for ICD-9 DX Codes In The Range 249.00-250.03 (Appearing Anywhere In First 13 DX Codes On Patient Record)

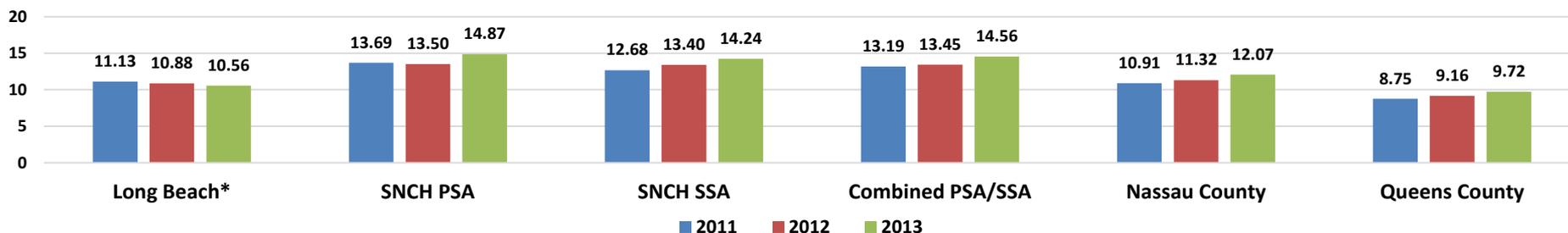
*Long Beach Includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes

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Indicates an increasing (unfavorable) 3 Year figure and/or a higher rate than Nassau County

Disease Utilization: Obesity

ACUTE CARE IP, ED, ASU DISCHARGES; RATE / 1,000 POPULATION



- The Long Beach obesity rate/1,000 population decreased from 11.1 in 2011 to 10.6 in 2013. The PSA, SSA and Nassau County rates all increased over the period.
- The Long Beach rate is lower than the Nassau County figure while the rates in the PSA and SSA exceed the County.
- While the number of inpatient discharges from Long Beach decreased, all other geographic comparatives experienced an increased number or discharges.
- ED/ASU discharges increased among all geographic comparatives.

GEOGRAPHIC SEGMENT	OBESITY RATE/1,000 Pop (IP/ED/ASU)					ED & ASU DISCHARGES			INPATIENT DISCHARGES				
	2011	2012	2013	Rate Change '11-'13	% '13 Variance to '13 Nassau Cty	NYAE11	NYAE12	NYAE13	ED/ASU Discharge Change '11-'13	NYS11	NYS12	NYS13	IP Discharge Change '11-'13
Long Beach*	11.13	10.88	10.56	(0.56)	-12%	127	113	157	30	334	339	283	(51)
PSA	13.69	13.50	14.87	1.18	23%	2,179	2,261	2,764	585	5,031	4,882	5,134	103
SSA	12.68	13.40	14.24	1.56	18%	1,978	2,173	2,539	561	4,587	4,798	4,906	319
Combined PSA/SSA	13.19	13.45	14.56	1.37	21%	4,157	4,434	5,303	1,146	9,618	9,680	10,040	422
Nassau County	10.91	11.32	12.07	1.16		4,318	4,752	5,588	1,270	10,481	10,644	10,873	392
Queens County	8.75	9.16	9.72	0.98	-19%	6,221	6,767	7,462	1,241	13,401	13,965	14,170	769

Source: SPARCS UB-04 Discharges (2011 – 2013),

Population: 2010, 2015 Nielsen-Claritas (Intervening Years – Straight Line Estimate)

Definition: Inpatient, ED and ASU Discharges for ICD-9 DX Codes 278.00 or 278.01 (Appearing Anywhere In First 13 DX Codes On Patient Record)

*Long Beach Includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes

Indicates a decreasing (favorable) 3 Year figure and/or a lower rate than Nassau County

Indicates an increasing (unfavorable) 3 Year figure and/or a higher rate than Nassau County

Disease Utilization: Renal Failure

ACUTE CARE IP, ED, ASU and OUTPATIENT DISCHARGES; RATE / 1,000 POPULATION



- The Long Beach renal failure rate/1,000 population remained fairly consistent at 4.7 in 2011 to 4.7 in 2013 following a drop in 2012. The PSA rate declined by (0.4) while the SSA increased 3.8 and Nassau County increased 6.1. (Note: Renal Failure Data include Inpatient, ED, ASU and Outpatient to capture discharges from non-Acute Care and ASU facilities).
- The 2013 Long Beach rate is substantially lower than the 2013 Nassau County figure (as well as the PSA and SSA) and has been lower than the PSA/SSA historically. The PSA and SSA rates are higher than the Nassau County rate, which saw significant increases from 2011 to 2012 and again from 2012 to 2013.
- The number of inpatient discharges from Long Beach, the PSA, SSA and Nassau County all decreased from 2012 to 2013 following decreases from 2011 to 2012.
- ED/ASU/Outpatient discharges increased from 2011 to 2012 among Long Beach residents and in the SSA and Nassau County. The PSA decreased from 2011 to 2013.

GEOGRAPHIC SEGMENT	RENAL FAILURE						ED, ASU & OUTPATIENT DISCHARGES			INPATIENT DISCHARGES				
	RATE/1,000 Pop (IP/ED/ASU)			% '13 Variance			ED/ASU Discharge			IP Discharge				
	2011	2012	2013	Rate Change '11-'13	to '13 Nassau Cty		NYAE11	NYAE12	NYAE13	Change '11-'13	NYS11	NYS12	NYS13	Change '11-'13
Long Beach*	4.68	3.88	4.73	0.05	-52%		99	72	139	40	95	89	58	(37)
PSA	13.52	10.26	13.11	(0.41)	33%		6,171	4,546	6,123	(48)	953	882	842	(111)
SSA	7.76	8.57	11.59	3.83	18%		3,124	3,628	5,326	2,202	891	831	732	(159)
Combined PSA/SSA	10.66	9.42	12.36	1.69	26%		9,295	8,174	11,449	2,154	1,844	1,713	1,574	(270)
Nassau County	3.69	5.33	9.83	6.14			2,950	5,329	11,678	8,728	2,059	1,926	1,732	(327)
Queens County	9.30	6.59	6.30	(3.00)	-36%		17,956	12,069	11,087	(6,869)	2,904	2,831	2,930	26

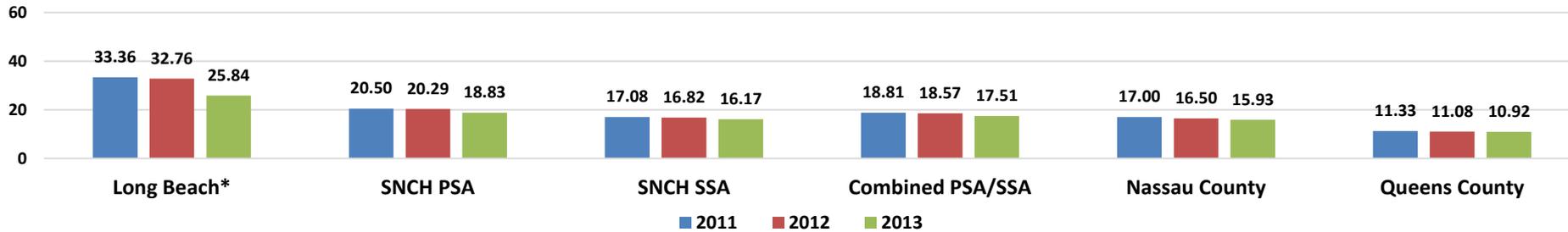
Source: SPARCS UB-04 Discharges (2011 – 2013),
 Population: 2010, 2015 Nielsen-Claritas (Intervening Years – Straight Line Estimate)
 Definition: Inpatient, ED, ASU and OUTPATIENT Discharges for MS-DRGs In the Range 682-685
 *Long Beach Includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes

Indicates a decreasing (favorable) 3 Year figure and/or a lower rate than Nassau County

Indicates an increasing (unfavorable) 3 Year figure and/or a higher rate than Nassau County

Disease Utilization: COPD (Excluding Asthma)

ACUTE CARE IP, ED, and ASU; RATE / 1,000 POPULATION



- The Long Beach COPD rate/1,000 population decreased from 33.4 in 2011 to 25.8 in 2013 following a marginal drop in 2012. Rates in all comparative geographies decreased from 2011 to 2013, though not as drastically as Long Beach's figure.
- Despite the large rate decrease among Long Beach residents, the rate is still 62% higher than Nassau County's. The PSA and SSA rates exceed the County figure as well, but with variances of 18% and 2%, respectively.
- The number of inpatient discharges decreased among all geographic cohorts from 2012 to 2013 following decreases from 2011 to 2012.
- ED and ASU discharges decreased from 2011 to 2013 among Long Beach residents and in the PSA while the SSA and Nassau County experience increased discharges.

COPD (Excluding Asthma)

RATE/1,000 Pop (IP/ED/ASU)

ED & ASU DISCHARGES

INPATIENT DISCHARGES

% '13 Variance
Rate Change
to '13 Nassau
Cty

ED/ASU
Discharge
Change '11-'13

IP Discharge
Change '11-'13

GEOGRAPHIC SEGMENT	2011	2012	2013	Rate Change '11-'13	% '13 Variance to '13 Nassau Cty	NYAE11	NYAE12	NYAE13	ED/ASU Discharge Change '11-'13	NYS11	NYS12	NYS13	IP Discharge Change '11-'13
Long Beach*	33.36	32.76	25.84	(7.52)	62%	496	510	300	(196)	886	851	776	(110)
PSA	20.50	20.29	18.83	(1.66)	18%	3,811	4,154	3,731	(80)	6,987	6,577	6,271	(716)
SSA	17.08	16.82	16.17	(0.91)	2%	3,175	3,457	3,453	278	5,669	5,292	5,000	(669)
Combined PSA/SSA	18.81	18.57	17.51	(1.29)	10%	6,986	7,611	7,184	198	12,656	11,869	11,271	(1,385)
Nassau County	17.00	16.50	15.93	(1.06)		7,977	8,579	8,371	394	15,075	13,857	13,353	(1,722)
Queens County	11.33	11.08	10.92	(0.41)	-31%	8,840	9,297	9,282	442	16,583	15,763	15,017	(1,566)

Indicates a decreasing (favorable) 3 Year figure and/or a lower rate than Nassau County

Indicates an increasing (unfavorable) 3 Year figure and/or a higher rate than Nassau County

Source: SPARCS UB-04 Discharges (2011 – 2013)

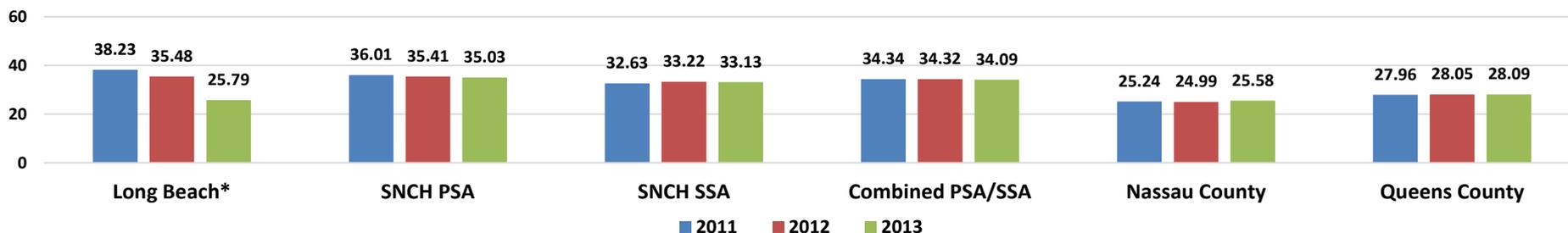
Population: 2010, 2015 Nielsen-Claritas (Intervening Years – Straight Line Estimate)

Definition: Inpatient, ED, and ASU Discharges for ICD-9 DX Codes in the Ranges 490-492 & 494-496 (Appearing in First 13 DX Codes on Patient Record)

*Long Beach Includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes

Disease Utilization: Asthma

ACUTE CARE IP, ED, and ASU; RATE / 1,000 POPULATION



- The Long Beach Asthma rate/1,000 population decreased from 38.2 in 2011 to 25.8 in 2013 following a drop in 2012. The PSA rate decreased by nearly 1 from 2011 to 2012 as the SSA increased 0.5 over the period. Nassau County increased 0.3.
- Despite the large rate decrease among Long Beach residents, the rate is now 1% greater than the overall Nassau County figure. The PSA and SSA rates exceed the County figure as well, with more significant variances of 37% and 30%, respectively.
- The number of inpatient discharges decreased among all geographic cohorts from 2011 to 2013.
- ED and ASU discharges decreased from 2011 to 2013 among Long Beach residents while the PSA, SSA and Nassau County experienced increases.

GEOGRAPHIC SEGMENT	ASTHMA RATE/1,000 Pop (IP/ED/ASU)					ED & ASU DISCHARGES			INPATIENT DISCHARGES				
	2011	2012	2013	Rate Change '11-'13	% '13 Variance to '13 Nassau Cty	NYAE11	NYAE12	NYAE13	ED/ASU Discharge Change '11-'13	NYS11	NYS12	NYS13	IP Discharge Change '11-'13
	Long Beach*	38.23	35.48	25.79	(12.44)	1%	1,044	1,049	649	(395)	540	425	425
PSA	36.01	35.41	35.03	(0.98)	37%	12,998	13,246	13,204	206	5,973	5,481	5,402	(571)
SSA	32.63	33.22	33.13	0.50	30%	11,568	12,171	12,386	818	5,324	5,108	4,931	(393)
Combined PSA/SSA	34.34	34.32	34.09	(0.25)	33%	24,566	25,417	25,590	1,024	11,297	10,589	10,333	(964)
Nassau County	25.24	24.99	25.58	0.34		22,009	22,830	23,802	1,793	12,226	11,150	11,076	(1,150)
Queens County	27.96	28.05	28.09	0.14	10%	42,472	43,618	43,237	765	20,257	19,846	19,265	(992)

Source: SPARCS UB-04 Discharges (2011 – 2013),

Population: 2010, 2015 Nielsen-Claritas (Intervening Years – Straight Line Estimate)

Definition: Inpatient, ED, and ASU Discharges for ICD-9 DX Codes in the Range 493-493.9 (Appearing Anywhere in First 13 DX Codes On Patient Record)

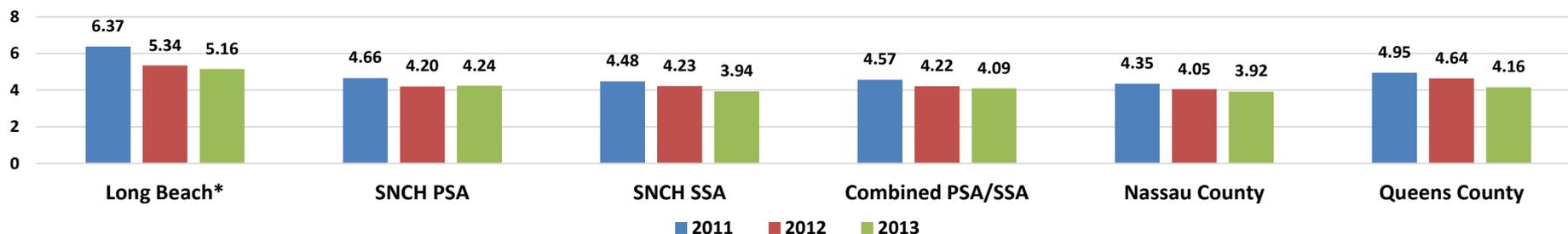
*Long Beach Includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes

Indicates a decreasing (favorable) 3 Year figure and/or a lower rate than Nassau County

Indicates an increasing (unfavorable) 3 Year figure and/or a higher rate than Nassau County

Disease Utilization: Pneumonia

ACUTE CARE IP, ED, and ASU; RATE / 1,000 POPULATION



- The Long Beach pneumonia rate/1,000 population decreased from 6.4 to 5.2 between 2011 and 2013. Despite the decrease, the rate in Long Beach remains 32% higher than the County. Decreases occurred in all geographic localities, but the rate in Long Beach remains highest of all the geographies.
- There were decreases among inpatient discharges, ED, and ASU cases in Long Beach, the PSA, SSA, PSA/SSA, Nassau and Queens Counties.

GEOGRAPHIC SEGMENT	PNEUMONIA						ED & ASU DISCHARGES			INPATIENT DISCHARGES				
	RATE/1,000 Pop (IP/ED/ASU)													
	2011	2012	2013	Rate Change '11-'13	% '13 Variance to '13 Nassau Cty		NYAE11	NYAE12	NYAE13	ED/ASU Discharge Change '11-'13	NYS11	NYS12	NYS13	IP Discharge Change '11-'13
Long Beach*	6.37	5.34	5.16	(1.21)	32%		59	54	52	(7)	205	168	163	(42)
PSA	4.66	4.20	4.24	(0.42)	8%		852	849	809	(43)	1,605	1,371	1,445	(160)
SSA	4.48	4.23	3.94	(0.54)	0.4%		788	836	747	(41)	1,533	1,367	1,312	(221)
Combined PSA/SSA	4.57	4.22	4.09	(0.48)	4%		1,640	1,685	1,556	(84)	3,138	2,738	2,757	(381)
Nassau County	4.35	4.05	3.92	(0.42)			1,791	1,870	1,732	(59)	4,103	3,634	3,618	(485)
Queens County	4.95	4.64	4.16	(0.79)	6%		4,820	4,699	3,860	(960)	6,281	5,805	5,393	(888)

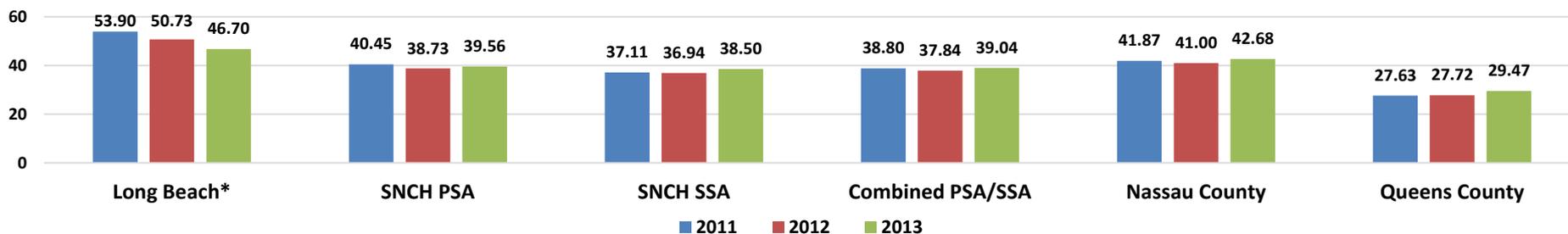
Source: SPARCS UB-04 Discharges (2011 – 2013), Population: 2010, 2015 Nielsen-Claritas (Intervening Years – Straight Line Estimate)
 Definition: Inpatient, ED, and ASU Discharges for MS-DRGs 177, 178, 179, 193, 194, 195
 *Long Beach Includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes

Indicates a decreasing (favorable) 3 Year figure and/or a lower rate than Nassau County

Indicates an increasing (unfavorable) 3 Year figure and/or a higher rate than Nassau County

Disease Utilization: Cancer (Includes History of Cancer)

ACUTE CARE IP, ED, and ASU; RATE / 1,000 POPULATION



- The cancer rate/1,000 population decreased in Long Beach from 53.9 to 46.7, but remained 9% higher than the County rate and was highest of all the geographies studied. Cancer rates increased in the SSA, combined PSA/SSA, and Nassau County.
- Long Beach discharges for ED and ASU were down between 2011 and 2013, all the other relevant areas saw an increase in cancer discharges.
- Inpatient discharges decreased in all geographic areas.

GEOGRAPHIC SEGMENT	CANCER (Includes History of Cancer)						ED & ASU DISCHARGES			INPATIENT DISCHARGES			
	RATE/1,000 Pop (IP/ED/ASU)			% '13 Variance		NYAE11	NYAE12	NYAE13	ED/ASU Discharge Change '11-'13	NYS11	NYS12	NYS13	IP Discharge Change '11-'13
	2011	2012	2013	Rate Change '11-'13	to '13 Nassau Cty								
Long Beach*	53.90	50.73	46.70	(7.19)	9%	991	1,000	914	(77)	1,242	1,102	1,021	(221)
PSA	40.45	38.73	39.56	(0.89)	-7%	9,998	9,865	10,625	627	11,311	10,536	10,214	(1,097)
SSA	37.11	36.94	38.50	1.39	-10%	8,717	9,187	10,201	1,484	10,496	9,937	9,732	(764)
Combined PSA/SSA	38.80	37.84	39.04	0.24	-9%	18,715	19,052	20,826	2,111	21,807	20,473	19,946	(1,861)
Nassau County	41.87	41.00	42.68	0.81		26,272	26,953	30,017	3,745	30,515	28,654	27,873	(2,642)
Queens County	27.63	27.72	29.47	1.84	-31%	27,017	28,013	32,580	5,563	34,975	34,189	33,544	(1,431)

Source: SPARCS UB-04 Discharges (2011 – 2013)

Population: 2010, 2015 Nielsen-Claritas (Intervening Years – Straight Line Estimate)

Definition: Inpatient, ED, and ASU Discharges For New Solution's Inc. Oncology Product Line (includes History of Cancer)

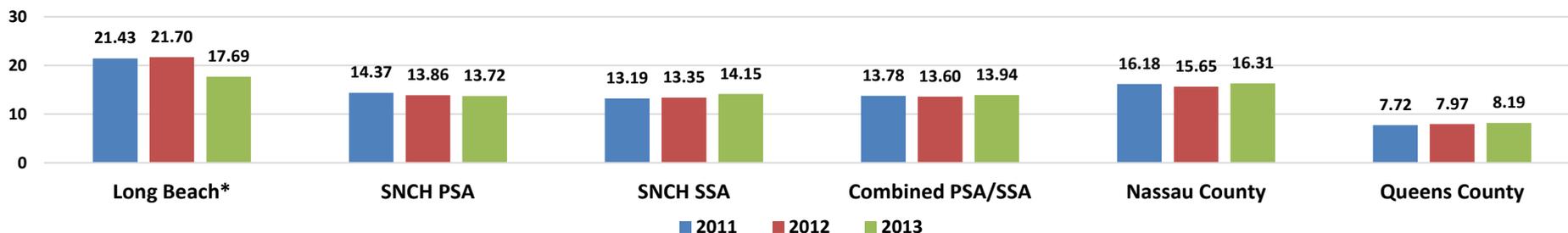
*Long Beach Includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes

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Indicates an increasing (unfavorable) 3 Year figure and/or a higher rate than Nassau County

Disease Utilization: History Of Cancer

ACUTE CARE IP, ED, and ASU; RATE / 1,000 POPULATION



- The rate of Long Beach residents with a history of cancer/1,000 population decreased 3.7 points between 2011 and 2013, but remained 8% higher than the County. The Long Beach rate was higher than all the geographies studied.
- The number of ED and ASU visits among Long Beach residents with a history of cancer decreased. All other geographic areas experienced increases.
- Inpatient discharges were down in all the geographies studied.

GEOGRAPHIC SEGMENT	RATE/1,000 Pop (IP/ED/ASU)						ED & ASU DISCHARGES			INPATIENT DISCHARGES			
	2011	2012	2013	Rate Change '11-'13	% '13 Variance to '13 Nassau Cty	NYAE11	NYAE12	NYAE13	ED/ASU Discharge Change '11-'13	NYS11	NYS12	NYS13	IP Discharge Change '11-'13
Long Beach*	21.43	21.70	17.69	(3.74)	8%	347	423	298	(49)	541	476	435	(106)
PSA	14.37	13.86	13.72	(0.65)	-16%	3,275	3,373	3,339	64	4,295	3,927	3,888	(407)
SSA	13.19	13.35	14.15	0.97	-13%	2,896	3,191	3,625	729	3,932	3,718	3,703	(229)
Combined PSA/SSA	13.78	13.60	13.94	0.15	-15%	6,171	6,564	6,964	793	8,227	7,645	7,591	(636)
Nassau County	16.18	15.65	16.31	0.13		9,339	9,692	10,818	1,479	12,603	11,540	11,306	(1,297)
Queens County	7.72	7.97	8.19	0.48	-50%	6,415	7,196	8,147	1,732	10,895	10,696	10,231	(664)

Source: SPARCS UB-04 Discharges (2011 – 2013),

Population: 2010, 2015 Nielsen-Claritas (Intervening Years – Straight Line Estimate)

Definition: Inpatient, ED, and ASU Discharges For New Solution's Inc. Oncology Product Line (History of Cancer Only)

*Long Beach Includes Long Beach, Atlantic Beach and Point Lookout ZIP Codes

Indicates a decreasing (favorable) 3 Year figure and/or a lower rate than Nassau County

Indicates an increasing (unfavorable) 3 Year figure and/or a higher rate than Nassau County



SOUTH NASSAU COMMUNITIES HOSPITAL

OUTMIGRATION

*Prepared By: New Solutions, Inc.
April 2015*

Long Beach IP Outmigration to Other Counties

INPATIENT UTILIZATION BY HOSPITAL COUNTY: WHERE DO LONG BEACH RESIDENTS TRAVEL TO?

LONB BEACH* IP OUTMIGRATION: ALL SERVICE LINES

	COUNTY	NYS11		NYS13		Change '11-'13	
		#	%	#	%	#	Points
11561 LONG BEACH	NASSAU	5,296	90.4%	4,395	87.7%	-901	(2.71)
	SUFFOLK	49	0.8%	48	1.0%	-1	0.12
	QUEENS	59	1.0%	119	2.4%	60	1.36
	KINGS	23	0.4%	24	0.5%	1	0.09
	BRONX	11	0.2%	11	0.2%	0	0.03
	NEW YORK	397	6.8%	395	7.9%	-2	1.11
	RICHMOND	2	0.0%	0	0.0%	-2	(0.03)
	All Other NY Counties	24	0.4%	22	0.4%	-2	0.03
	Sum:	5,861	100.0%	5,014	100.0%	-847	
11509 ATLANTIC BEACH	NASSAU	390	79.8%	295	78.7%	-95	(1.08)
	SUFFOLK	1	0.2%	2	0.5%	1	0.33
	QUEENS	13	2.7%	18	4.8%	5	2.14
	KINGS	7	1.4%	5	1.3%	-2	(0.10)
	BRONX	0	0.0%	0	0.0%	0	-
	NEW YORK	78	16.0%	53	14.1%	-25	(1.82)
	RICHMOND	0	0.0%	0	0.0%	0	-
	All Other NY Counties	0	0.0%	2	0.5%	2	0.53
	Sum:	489	100.0%	375	100.0%	-114	
11569 POINT LOOKOUT	NASSAU	144	81.8%	133	86.4%	-11	4.54
	SUFFOLK	2	1.1%	3	2.0%	1	0.81
	QUEENS	1	0.6%	1	0.7%	0	0.08
	KINGS	1	0.6%	0	0.0%	-1	(0.57)
	BRONX	0	0.0%	1	0.7%	1	0.65
	NEW YORK	27	15.3%	16	10.4%	-11	(4.95)
	RICHMOND	0	0.0%	0	0.0%	0	-
	All Other NY Counties	1	0.6%	0	0.0%	-1	(0.57)
	Sum:	176	100.0%	154	100.0%	-22	

- 88% of Long Beach residents received care in Nassau County in 2013. 8% were treated in a facility in Manhattan.
- 79% of Atlantic Beach residents received care in a Nassau County facility. 14% were treated in Manhattan.
- 86% of Point Lookout residents were treated in Nassau County. 10% received care in Manhattan.

Atlantic Beach IP Utilization (Pre & Post Sandy)

INPATIENT UTILIZATION – 5 LARGEST SERVICE LINES (2013 IP)

		2011 (IP Discharges: TOP 3 Hospitals By Service Line)						2013 (IP Discharges: TOP 3 Hospitals By Service Line)											
ATLANTIC BEACH	GENERAL MEDICINE	LBMC		SNCH		NSUH		Other Hosp:		Total IP	MERCY-RC		SNCH		NSUH		Other Hosp:		Total IP
		102	53.68%	30	15.79%	12	6.32%	-	0.00%	144	51	34.46%	44	29.73%	16	10.81%	-	0.00%	111
	CARDIAC SERVICE	LBMC		SNCH		ST. FR. - ROSLYN		Other Hosp:		Total IP	SNCH		ST. FR. - ROSLYN		WINTHROP		Other Hosp:		Total IP
		29	32.58%	17	19.10%	17	19.10%	-	0.00%	63	25	33.78%	18	24.32%	8	10.81%	-	0.00%	51
	ORTHOPEDICS	LBMC		HOSP-SPEC SURG		NSUH		Other Hosp:		Total IP	SNCH		NSUH		HOSP-SPEC SURG		Other Hosp:		Total IP
	10	25.00%	9	22.50%	6	15.00%	-	0.00%	25	11	31.43%	6	17.14%	4	11.43%	-	0.00%	21	
	GENERAL SURGERY	LBMC		NSUH		MOUNT SINAI		Other Hosp:		Total IP	SNCH		MSKCC		MERCY-RC		Other Hosp:		Total IP
		5	16.13%	5	16.13%	4	12.90%	-	0.00%	14	6	28.57%	2	9.52%	2	9.52%	6	37.50%	16
	NEUROLOGY	LBMC		SNCH		NSUH		Other Hosp:		Total IP	SNCH		MERCY-RC		NSUH		Other Hosp:		Total IP
		5	20.83%	5	20.83%	3	12.50%	3	18.75%	16	8	42.11%	4	21.05%	2	10.53%	2	12.50%	16

- SNCH is the primary provider for Atlantic Beach residents for 4 of the top 5 Inpatient Service Lines; Cardiology, Orthopedics, General Surgery and Neurology.
- Mercy was the top provider for General Medical Services.

Most current data available

Source: NY 2011, 2013 IP UB-04- SPARCS;

Long Beach IP Utilization (Pre & Post Sandy)

INPATIENT UTILIZATION – 5 LARGEST SERVICE LINES (2013 IP)

		2011 (IP Discharges: TOP 3 Hospitals By Service Line)						2013 (IP Discharges: TOP 3 Hospitals By Service Line)					
LONG BEACH	GENERAL MEDICINE	LBMC	SNCH	NUMC	Other Hosp:		Total IP	SNCH	MERCY-RC	NUMC	Other Hosp:		Total IP
		1,454 57.49%	429 16.96%	124 4.90%	-		2,007	1,356 67.33%	120 5.96%	119 5.91%	-		1,595
	CARDIAC SERVICE	LBMC	ST. FR. - ROSLYN	SNCH	Other Hosp:		Total IP	SNCH	ST. FR. ROSLYN	WINTHROP	Other Hosp:		Total IP
		224 31.73%	186 26.35%	144 20.40%	-		554	343 53.85%	115 18.05%	43 6.75%	-		501
	OBSTETRICS	SNCH	MERCY-RC	WINTHROP	Other Hosp:		Total IP	SNCH	WINTHROP	MERCY-RC	Other Hosp:		Total IP
	169 43.44%	65 16.71%	55 14.14%	-		289	124 32.63%	72 18.95%	59 15.53%	-		255	
	GENERAL SURGERY	LBMC	SNCH	NSUH	Other Hosp:		Total IP	SNCH	WINTHROP	NSUH	Other Hosp:		Total IP
		113 27.90%	99 24.44%	31 7.65%	31 11.31%		274	154 47.38%	31 9.54%	27 8.31%	-		212
	NEUROLOGY	LBMC	SNCH	NSUH	Other Hosp:		Total IP	SNCH	NSUH	NUMC	Other Hosp:		Total IP
		143 47.83%	57 19.06%	16 5.35%	-		216	179 69.92%	15 5.86%	8 3.13%	8 3.81%		210

Between 2011-2013, Inpatient discharges from Long Beach were down across all major service lines.

- For the 5 top service lines, SNCH has moved into first place with the highest market share.
- Other winners include Winthrop which gained share in Cardiac, Obstetrics and General Surgery.

Point Lookout IP Utilization (Pre & Post Sandy)

INPATIENT UTILIZATION – 5 LARGEST SERVICE LINES (2013 IP)

		2011 (IP Discharges: TOP 3 Hospitals By Service Line)					2013 (IP Discharges: TOP 3 Hospitals By Service Line)				
POINT LOOKOUT	GENERAL MEDICINE	LBMC 18 36.00%	SNCH 9 18.00%	NUMC 6 12.00%	Other Hosp: - 0.00%	Total IP 33	SNCH 24 47.06%	WINTHROP 8 15.69%	LIJ 4 7.84%	Other Hosp: 8 18.18%	Total IP 44
	CARDIAC SERVICE	WINTHROP 7 28.00%	ST. FR. - ROSLYN 6 24.00%	LBMC 5 20.00%	Other Hosp: - 0.00%	Total IP 18	SNCH 7 25.93%	ST. FR. - ROSLYN 6 22.22%	NSUH 5 18.52%	Other Hosp: - 0.00%	Total IP 18
	NEUROLOGY	LBMC 6 46.15%	SNCH 3 23.08%	NUMC 1 7.69%	Other Hosp: 3 23.08%	Total IP 13	SNCH 6 60.00%	ST. FR. - ROSLYN 2 20.00%	NUMC 1 10.00%	Other Hosp: 1 10.00%	Total IP 10
	OBSTETRICS	NSUH 3 23.08%	SNCH 3 23.08%	WINTHROP 3 23.08%	Other Hosp: - 0.00%	Total IP 9	NSUH 3 33.33%	WINTHROP 3 33.33%	SNCH 2 22.22%	Other Hosp: - 0.00%	Total IP 8
	ORTHOPEDICS	HOSP-SPEC SURG 6 30.00%	LBMC 3 15.00%	FRANKLIN 2 10.00%	Other Hosp: 6 35.29%	Total IP 17	SNCH 4 33.33%	WINTHROP 3 25.00%	HOSP-SPEC SURG 2 16.67%	Other Hosp: - 0.00%	Total IP 9

- **SNCH became the market leader for 4 of the top 5 Inpatient Service Lines in Point Lookout; General Medicine, Cardiac, Neurology and Orthopedics. North Shore remained the leader for Obstetrics.**

Most current data available

Source: NY 2011, 2013 IP UB-04- SPARCS;



SOUTH NASSAU COMMUNITIES HOSPITAL

LONG BEACH PRIMARY CARE PHYSICIAN NEED

*Prepared By: New Solutions, Inc.
April 2015*

Long Beach Primary Care Surplus/Need Analysis

PRIMARY CARE: FAMILY PRACTICE AND INTERNAL MEDICINE

LONG BEACH PHYSICIAN NEED ANALYSIS – PRIMARY CARE (FP/IM) SURPLUS/(NEED): 2015 Estimate and 2020 Projection

SPECIALTY COHORT	2015 ACTUAL	GMENAC		HYBRID 10 % LOWER		DANY		NATIONAL SUPPLY	
		REQUIRED	SURPLUS (+) NEED(-)	REQUIRED	SURPLUS (+) NEED(-)	REQUIRED	SURPLUS (+) NEED(-)	REQUIRED	SURPLUS (+) NEED(-)
LONG BEACH* 2015									
<i>General (Family Practice & IM)</i>	10.88	22.61	(11.73)	14.57	(3.69)	42.40	(31.52)	22.29	(11.41)
Family Practice	4.43	10.55	(6.12)	6.61	(2.18)	11.19	(6.76)	NA	NA
Internal Medicine	6.45	12.06	(5.61)	7.95	(1.50)	31.21	(24.76)	NA	NA
Total Population: 2015	41,862								
LONG BEACH* 2020**									
<i>General (Family Practice & IM)</i>	7.50	22.97	(15.47)	14.80	(7.30)	43.08	(35.58)	22.65	(15.15)
Family Practice	3.75	10.72	(6.97)	6.72	(2.97)	11.37	(7.62)	NA	NA
Internal Medicine	3.75	12.25	(8.50)	8.08	(4.33)	31.71	(27.96)	NA	NA
Total Population: 2020	42,533								

- Most of the primary care physicians operate small 1-2 person practices.
- In 2015, there is a need for between 4 and 32 additional primary care physicians depending on the ratio used.
- Over the next 5 years this will need increase to 7-36 due to potential retirements of an aging physician population.
- SNCH should closely monitor physician activity over the next 12-36 months and attempt to work with small primary care practices to create a more efficient group practice model integrated with SNCH and located on the new site.

ADJUSTMENTS TO PRIMARY CARE PHYSICIAN FULL TIME EQUIVALENT FIGURES AND RATIOS: Full time equivalent (FTE) calculations are adjusted in 2015 and 2020 for productivity by physician age based on productivity estimates published by the US. Dept. of Health and Human Services Health Resource and Services Administration (HRSA) in November 2013. Based on HRSA's estimates, physicians currently age 65 to 69 are adjusted to 90% of their FTE count and physicians age 70+ are adjusted to 80% of their FTE count. As is standard, physicians entering the 65+ cohort in 2020 are removed from the 2020 supply.



SOUTH NASSAU COMMUNITIES HOSPITAL

PREVENTION QUALITY INDICATORS

*Prepared By: New Solutions, Inc.
April 2015*

PQI1 & 3: Diabetes Short & Long Term Complications

RATE/100,000, DIABETIC POPULATION 18-64

	Age Cohort	PQI1 SHORT TERM: INPATIENT PQI RATE				PQI1 SHORT TERM: EMERGENCY ROOM PQI RATE			
		NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY
PSA	18-64 w/Diabetes	216	24,350	887.06	249.67	7	86,771	8.07	3.03
SSA	18-64 w/Diabetes	196	23,869	821.15	183.76	9	88,426	10.18	5.14
PSA/SSA	18-64 w/Diabetes	412	48,219	854.43	217.05	16	175,197	9.13	4.10
LONG BEACH*	18-64 w/Diabetes	13	1,759	739.06	101.67	-	4,934	-	-5.04
NASSAU COUNTY	18-64 w/Diabetes	345	54,127	637.39		9	178,703	5.04	
QUEENS COUNTY	18-64 w/Diabetes	776	89,166	870.29	232.90	39	415,012	9.40	4.36

	Age Cohort	PQI3 LONG TERM: INPATIENT PQI RATE				PQI3 LONG TERM: EMERGENCY ROOM PQI RATE			
		NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY
PSA	18-64 w/Diabetes	394	24,172	1629.99	469.29	211	86,567	243.74	28.41
SSA	18-64 w/Diabetes	346	23,719	1458.75	298.05	211	88,224	239.16	23.83
PSA/SSA	18-64 w/Diabetes	740	47,891	1545.18	384.48	422	174,791	241.43	26.10
LONG BEACH*	18-64 w/Diabetes	16	1,756	911.16	-249.53	10	4,924	203.09	-12.25
NASSAU COUNTY	18-64 w/Diabetes	625	53,847	1160.70		384	178,328	215.33	
QUEENS COUNTY	18-64 w/Diabetes	1,304	88,638	1471.15	310.46	721	414,330	174.02	-41.32

- PQI rate for Diabetes admissions with short-term complications for residents 18-64 was higher among Long Beach residents than residents in the County.
- The Emergency Room PQI rates for short-term complications were lower than the County.
- Long Beach residents had lower Diabetes PQI rates for Inpatient and Emergency Room visits for patients with long-term complications than County residents.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes
 Source: NY 2013 IP and ED UB-04- SPARCS; Agency for Healthcare Research and Quality (AHRQ) PQI Definition Version v4.5

PQI2: Perforated Appendix

OF DISCHARGES WITH DX OF APPENDICITIS: RATE/1,000

Age Cohort	INPATIENT PQI RATE			VARIANCE TO NASSAU CTY
	NUMERATOR	DENOMINATOR	OBSVD RATE/1,000	
PSA OVERALL	106	281	377.22	34.01
18-39	41	163	251.53	64.45
40-64	48	98	489.80	41.17
65-74	11	13	846.15	-42.74
75+	6	7	857.14	-82.25
SSA OVERALL	35	92	380.43	37.22
18-39	13	56	232.14	45.06
40-64	15	29	517.24	68.61
65-74	3	3	1000.00	111.11
75+	4	4	1000.00	60.61
PSA/SSA OVERALL	141	373	378.02	34.81
18-39	54	219	246.58	59.49
40-64	63	127	496.06	47.43
65-74	14	16	875.00	-13.89
75+	10	11	909.09	-30.30
LONG BEACH* OVERALL	5	16	312.50	-30.71
18-39	-	10	0.00	-187.08
40-64	5	4	1250.00	801.37
65-74	-	2	0.00	-888.89
75+	-	-	n/a	n-a
NASSAU COUNTY OVERALL	278	810	343.21	
18-39	84	449	187.08	
40-64	131	292	448.63	
65-74	32	36	888.89	
75+	31	33	939.39	
QUEENS COUNTY OVERALL	493	1,433	344.03	0.82
18-39	194	868	223.50	36.42
40-64	200	460	434.78	-13.85
65-74	52	66	787.88	-101.01
75+	47	39	1205.13	265.73

- The inpatient PQI rate for Perforated Appendix was lower overall for Long Beach residents than the County, but was higher for the age cohort 40-64.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes
 Source: NY 2013 IP and ED UB-04- SPARCS; Agency for Healthcare Research and Quality (AHRQ) PQI Definition Version v4.5

PQI5: COPD or Asthma In Older Adults

Rate/100,000 in Population (Age 40+)

Age Cohort	INPATIENT PQI RATE				EMERGENCY ROOM PQI RATE			
	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY
PSA OVERALL	996	253,064	393.58	13.77	1,169	253,064	461.94	173.88
40-64	380	179,489	211.71	31.44	835	179,489	465.21	187.46
65-74	246	38,421	640.27	32.90	212	38,421	551.78	210.61
75+	370	35,154	1052.51	-6.60	122	35,154	347.04	64.05
SSA OVERALL	357	259,526	137.56	-242.25	1,384	259,526	533.28	245.22
40-64	124	185,078	67.00	-113.27	1,080	185,078	583.54	305.79
65-74	101	36,446	277.12	-330.25	167	36,446	458.21	117.04
75+	132	38,002	347.35	-711.76	137	38,002	360.51	77.52
PSA/SSA OVERALL	1,353	512,590	263.95	-115.86	2,553	512,590	498.06	210.00
40-64	504	364,567	138.25	-42.02	1,915	364,567	525.28	247.53
65-74	347	74,867	463.49	-143.89	379	74,867	506.23	165.06
75+	502	73,156	686.20	-372.91	259	73,156	354.04	71.05
LONG BEACH* OVERALL	112	22,531	497.09	117.28	91	22,531	403.89	115.83
40-64	35	15,426	226.89	46.62	65	15,426	421.37	143.62
65-74	26	3,790	686.02	78.64	13	3,790	343.01	1.84
75+	51	3,315	1538.46	479.35	13	3,315	392.16	109.17
NASSAU COUNTY OVERALL	2,637	694,297	379.81		2,000	694,297	288.06	
40-64	871	483,172	180.27		1,342	483,172	277.75	
65-74	632	104,054	607.38		355	104,054	341.17	
75+	1,134	107,071	1059.11		303	107,071	282.99	
QUEENS COUNTY OVERALL	4,207	1,045,425	402.42	22.61	5,315	1,045,425	508.41	220.34
40-64	1,756	751,868	233.55	53.28	4,271	751,868	568.05	290.30
65-74	938	156,528	599.25	-8.12	576	156,528	367.99	26.82
75+	1,513	137,029	1104.15	45.04	468	137,029	341.53	58.54

- Long Beach residents had higher rates of inpatient utilization for COPD overall and among those over 40 than the County.
- Long Beach residents also had higher Emergency Room visit rates for COPD than the County.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes
 Source: NY 2013 IP and ED UB-04- SPARCS; Agency for Healthcare Research and Quality (AHRQ) PQI Definition Version v4.5

PQI7: Hypertension

Rate/100,000 in Population (Age 18+)

Age Cohort	INPATIENT PQI RATE				EMERGENCY ROOM PQI RATE			
	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY
PSA OVERALL	362	398,212	90.91	21.62	1,269	398,212	318.67	85.67
18-39	22	145,148	15.16	2.09	168	145,148	115.74	33.37
40-64	191	179,489	106.41	37.08	677	179,489	377.18	124.06
65-74	49	38,421	127.53	11.25	208	38,421	541.37	170.41
75+	100	35,154	284.46	76.19	216	35,154	614.44	111.04
SSA OVERALL	379	406,819	93.16	23.87	1,299	406,819	319.31	86.31
18-39	20	147,293	13.58	0.51	152	147,293	103.20	20.82
40-64	176	185,078	95.10	25.76	758	185,078	409.56	156.44
65-74	82	36,446	224.99	108.70	194	36,446	532.29	161.33
75+	101	38,002	265.78	57.50	195	38,002	513.13	9.73
PSA/SSA OVERALL	741	805,031	92.05	22.76	2,568	805,031	318.99	85.99
18-39	42	292,441	14.36	1.30	320	292,441	109.42	27.05
40-64	367	364,567	100.67	31.33	1,435	364,567	393.62	140.50
65-74	131	74,867	174.98	58.69	402	74,867	536.95	165.99
75+	201	73,156	274.76	66.48	411	73,156	561.81	58.41
LONG BEACH* OVERALL	11	34,302	32.07	-37.22	60	34,302	174.92	-58.08
18-39	-	11,771	0.00	-13.07	5	11,771	42.48	-39.90
40-64	4	15,426	25.93	-43.40	25	15,426	162.06	-91.06
65-74	3	3,790	79.16	-37.13	13	3,790	343.01	-27.95
75+	4	3,315	120.66	-87.61	17	3,315	512.82	9.42
NASSAU COUNTY OVERALL	725	1,046,352	69.29		2,438	1,046,352	233.00	
18-39	46	352,056	13.07		290	352,056	82.37	
40-64	335	483,172	69.33		1,223	483,172	253.12	
65-74	121	104,054	116.29		386	104,054	370.96	
75+	223	107,071	208.27		539	107,071	503.40	
QUEENS COUNTY OVERALL	1,348	1,794,922	75.10	5.81	4,891	1,794,922	272.49	39.49
18-39	80	749,497	10.67	-2.39	511	749,497	68.18	-14.19
40-64	614	751,868	81.66	12.33	2,789	751,868	370.94	117.82
65-74	247	156,528	157.80	41.51	856	156,528	546.87	175.91
75+	407	137,029	297.02	88.74	735	137,029	536.38	32.98

- Long Beach residents had lower rates of admissions and Emergency Room visits, except age 75+, for Hypertension than County residents.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes

Source: NY 2013 IP and ED UB-04- SPARCS; Agency for Healthcare Research and Quality (AHRQ) PQI Definition Version v4.5

PQI8: Heart Failure

Rate/100,000 in Population (Age 18+)

Age Cohort	INPATIENT PQI RATE				EMERGENCY ROOM PQI RATE			
	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY
PSA OVERALL	1,519	398,212	381.46	28.80	127	398,212	31.89	3.89
18-39	25	145,148	17.22	7.00	6	145,148	4.13	2.15
40-64	402	179,489	223.97	91.10	46	179,489	25.63	11.55
65-74	263	38,421	684.52	139.61	20	38,421	52.05	13.61
75+	829	35,154	2358.20	74.66	55	35,154	156.45	-9.79
SSA OVERALL	1,551	406,819	381.25	28.60	129	406,819	31.71	3.71
18-39	26	147,293	17.65	7.43	3	147,293	2.04	0.05
40-64	369	185,078	199.38	66.50	35	185,078	18.91	4.84
65-74	280	36,446	768.26	223.35	20	36,446	54.88	16.43
75+	876	38,002	2305.14	21.61	71	38,002	186.83	20.59
PSA/SSA OVERALL	3,070	805,031	381.35	28.70	256	805,031	31.80	3.80
18-39	51	292,441	17.44	7.21	9	292,441	3.08	1.09
40-64	771	364,567	211.48	78.61	81	364,567	22.22	8.14
65-74	543	74,867	725.29	180.38	40	74,867	53.43	14.99
75+	1,705	73,156	2330.64	47.10	126	73,156	172.23	5.99
LONG BEACH* OVERALL	115	34,302	335.26	-17.40	14	34,302	40.81	12.81
18-39	1	11,771	8.50	-1.73	-	11,771	-	-1.99
40-64	20	15,426	129.65	-3.22	5	15,426	32.41	18.34
65-74	13	3,790	343.01	-201.90	2	3,790	52.77	14.33
75+	81	3,315	2443.44	159.91	7	3,315	211.16	44.92
NASSAU COUNTY OVERALL	3,690	1,046,352	352.65		293	1,046,352	28.00	
18-39	36	352,056	10.23		7	352,056	1.99	
40-64	642	483,172	132.87		68	483,172	14.07	
65-74	567	104,054	544.91		40	104,054	38.44	
75+	2,445	107,071	2283.53		178	107,071	166.24	
QUEENS COUNTY OVERALL	5,435	1,794,922	302.80	-49.86	307	1,794,922	17.10	-10.90
18-39	96	749,497	12.81	2.58	6	749,497	0.80	-1.19
40-64	1,472	751,868	195.78	62.91	123	751,868	16.36	2.29
65-74	1,158	156,528	739.80	194.89	56	156,528	35.78	-2.67
75+	2,709	137,029	1976.95	-306.58	122	137,029	89.03	-77.21

- Heart failure inpatient use rates are higher than the County for Long Beach residents 75+. Emergency Room visit rates are higher for all those 40+.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes
 Source: NY 2013 IP and ED UB-04- SPARCS; Agency for Healthcare Research and Quality (AHRQ) PQI Definition Version v4.5

PQI9: Low Birth Weight

Rate/1,000 At Risk

INPATIENT PQI RATE					
	Age Cohort	NUMERATOR	DENOMINATOR	OBSVD RATE/1,000	VARIANCE TO NASSAU CTY
PSA OVERALL	0-4	417	5,896	70.73	6.50
SSA OVERALL	0-4	381	4,982	76.48	12.25
PSA/SSA OVERALL	0-4	798	10,878	73.36	9.13
LONG BEACH* OVERALL	0-4	27	345	78.26	14.03
NASSAU COUNTY OVERALL	0-4	829	12,907	64.23	
QUEENS COUNTY OVERALL	0-4	1,920	27,624	69.50	5.28

- Long Beach residents and all other geographies had higher PQI admissions for low birth weight babies than the County. The rate among Long Beach residents was the highest.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes

Source: NY 2013 IP and ED UB-04- SPARCS; Agency for Healthcare Research and Quality (AHRQ) PQI Definition Version v4.5

PQI10: Dehydration

Rate/100,000 in Population (Age 18+)

Age Cohort	INPATIENT PQI RATE				EMERGENCY ROOM PQI RATE			
	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY
PSA OVERALL	454	398,212	114.01	-14.15	554	398,212	139.12	0.64
18-39	48	145,148	33.07	-0.16	176	145,148	121.26	7.07
40-64	128	179,489	71.31	6.33	151	179,489	84.13	8.17
65-74	70	38,421	182.19	-23.47	44	38,421	114.52	-1.77
75+	190	35,154	540.48	-67.53	111	35,154	315.75	-37.28
SSA OVERALL	498	406,819	122.41	-5.75	503	406,819	123.64	-14.84
18-39	44	147,293	29.87	-3.36	145	147,293	98.44	-15.74
40-64	117	185,078	63.22	-1.77	132	185,078	71.32	-4.64
65-74	92	36,446	252.43	46.77	45	36,446	123.47	7.18
75+	225	38,002	592.07	-15.93	115	38,002	302.62	-50.42
PSA/SSA OVERALL	952	805,031	118.26	-9.90	1,057	805,031	131.30	-7.18
18-39	92	292,441	31.46	-1.77	321	292,441	109.77	-4.42
40-64	245	364,567	67.20	2.22	283	364,567	77.63	1.67
65-74	162	74,867	216.38	10.72	89	74,867	118.88	2.59
75+	415	73,156	567.28	-40.73	226	73,156	308.93	-44.11
LONG BEACH* OVERALL	40	34,302	116.61	-11.55	48	34,302	139.93	1.45
18-39	1	11,771	8.50	-24.74	16	11,771	135.93	21.74
40-64	8	15,426	51.86	-13.13	13	15,426	84.27	8.32
65-74	11	3,790	290.24	84.58	6	3,790	158.31	42.03
75+	20	3,315	603.32	-4.69	11	3,315	331.83	-21.21
NASSAU COUNTY OVERALL	1,341	1,046,352	128.16		1,449	1,046,352	138.48	
18-39	117	352,056	33.23		402	352,056	114.19	
40-64	314	483,172	64.99		367	483,172	75.96	
65-74	214	104,054	205.66		121	104,054	116.29	
75+	651	107,071	608.01		378	107,071	353.04	
QUEENS COUNTY OVERALL	1,501	1,794,922	83.62	-44.53	1,385	1,794,922	77.16	-61.32
18-39	132	749,497	17.61	-15.62	444	749,497	59.24	-54.95
40-64	335	751,868	44.56	-20.43	348	751,868	46.28	-29.67
65-74	229	156,528	146.30	-59.36	136	156,528	86.89	-29.40
75+	717	137,029	523.25	-84.76	223	137,029	162.74	-190.30

- Dehydration inpatient PQI rates were lower than the County for all age cohorts except those 65-74 years of age.
- Dehydration ED PQI visit rates were higher than the County for all age cohorts except those over 75.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes
 Source: NY 2013 IP and ED UB-04- SPARCS; Agency for Healthcare Research and Quality (AHRQ) PQI Definition Version v4.5

PQI11: Bacterial Pneumonia

Rate/100,000 in Population (Age 18+)

Age Cohort	INPATIENT PQI RATE				EMERGENCY ROOM PQI RATE			
	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY
PSA OVERALL	831	398,212	208.68	-7.02	341	398,212	85.63	6.50
18-39	61	145,148	42.03	11.35	89	145,148	61.32	-0.04
40-64	247	179,489	137.61	17.16	164	179,489	91.37	13.55
65-74	136	38,421	353.97	-30.44	37	38,421	96.30	1.16
75+	384	35,154	1092.34	11.75	51	35,154	145.08	17.12
SSA OVERALL	886	406,819	217.79	2.09	351	406,819	86.28	7.15
18-39	50	147,293	33.95	3.27	100	147,293	67.89	6.54
40-64	276	185,078	149.13	28.67	158	185,078	85.37	7.55
65-74	153	36,446	419.80	35.38	35	36,446	96.03	0.89
75+	406	38,002	1068.36	-12.23	58	38,002	152.62	24.67
PSA/SSA OVERALL	1,717	805,031	213.28	-2.42	692	805,031	85.96	6.83
18-39	111	292,441	37.96	7.28	189	292,441	64.63	3.27
40-64	523	364,567	143.46	23.00	322	364,567	88.32	10.50
65-74	289	74,867	386.02	1.60	72	74,867	96.17	1.03
75+	790	73,156	1079.88	-0.71	109	73,156	149.00	21.04
LONG BEACH* OVERALL	78	34,302	227.39	11.69	30	34,302	87.46	8.33
18-39	4	11,771	33.98	3.30	3	11,771	25.49	-35.87
40-64	20	15,426	129.65	9.20	16	15,426	103.72	25.90
65-74	6	3,790	158.31	-226.10	3	3,790	79.16	-15.99
75+	48	3,315	1447.96	367.37	8	3,315	241.33	113.37
NASSAU COUNTY OVERALL	2,257	1,046,352	215.70		828	1,046,352	79.13	
18-39	108	352,056	30.68		216	352,056	61.35	
40-64	582	483,172	120.45		376	483,172	77.82	
65-74	400	104,054	384.42		99	104,054	95.14	
75+	1,157	107,071	1080.59		137	107,071	127.95	
QUEENS COUNTY OVERALL	3,547	1,794,922	197.61	-18.09	1,608	1,794,922	89.59	10.45
18-39	304	749,497	40.56	9.88	438	749,497	58.44	-2.91
40-64	1,082	751,868	143.91	23.45	758	751,868	100.82	23.00
65-74	624	156,528	398.65	14.23	191	156,528	122.02	26.88
75+	1,517	137,029	1107.06	26.47	221	137,029	161.28	33.33

- Bacterial Pneumonia PQI admission rates were higher overall and among Long Beach residents 18-64 and 75+, compared to Nassau County residents.
- Bacterial Pneumonia Emergency Room visit rates were also higher overall and among Long Beach residents 40-64 and 75+ than for County residents.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes

Source: NY 2013 IP and ED UB-04- SPARCS; Agency for Healthcare Research and Quality (AHRQ) PQI Definition Version v4.5

PQI12: Urinary Tract Infection

Rate/100,000 in Population (Age 18+)

Age Cohort	INPATIENT PQI RATE				EMERGENCY ROOM PQI RATE			
	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY
PSA OVERALL	675	398,212	169.51	1.88	2,440	398,212	612.74	130.78
18-39	82	145,148	56.49	13.89	1,202	145,148	828.12	199.81
40-64	130	179,489	72.43	15.10	742	179,489	413.40	103.15
65-74	91	38,421	236.85	15.81	184	38,421	478.90	70.46
75+	372	35,154	1058.20	33.65	312	35,154	887.52	40.42
SSA OVERALL	589	406,819	144.78	-22.85	2,540	406,819	624.36	142.40
18-39	53	147,293	35.98	-6.62	1,263	147,293	857.47	229.16
40-64	103	185,078	55.65	-1.68	735	185,078	397.13	86.89
65-74	96	36,446	263.40	42.36	182	36,446	499.37	90.93
75+	337	38,002	886.80	-137.76	360	38,002	947.32	100.22
PSA/SSA OVERALL	1,264	805,031	157.01	-10.62	4,980	805,031	618.61	136.65
18-39	135	292,441	46.16	3.56	2,465	292,441	842.91	214.60
40-64	233	364,567	63.91	6.58	1,477	364,567	405.14	94.90
65-74	187	74,867	249.78	28.74	366	74,867	488.87	80.43
75+	709	73,156	969.16	-55.39	672	73,156	918.58	71.48
LONG BEACH* OVERALL	58	34,302	169.09	1.46	118	34,302	344.00	-137.96
18-39	9	11,771	76.46	33.85	37	11,771	314.33	-313.98
40-64	10	15,426	64.83	7.50	34	15,426	220.41	-89.83
65-74	7	3,790	184.70	-36.34	20	3,790	527.70	119.26
75+	32	3,315	965.31	-59.24	27	3,315	814.48	-32.62
NASSAU COUNTY OVERALL	1,754	1,046,352	167.63		5,043	1,046,352	481.96	
18-39	150	352,056	42.61		2,212	352,056	628.31	
40-64	277	483,172	57.33		1,499	483,172	310.24	
65-74	230	104,054	221.04		425	104,054	408.44	
75+	1,097	107,071	1024.55		907	107,071	847.10	
QUEENS COUNTY OVERALL	2,760	1,794,922	153.77	-13.86	11,428	1,794,922	636.69	154.72
18-39	316	749,497	42.16	-0.45	5,943	749,497	792.93	164.62
40-64	557	751,868	74.08	16.75	3,460	751,868	460.19	149.95
65-74	433	156,528	276.63	55.59	821	156,528	524.51	116.07
75+	1,454	137,029	1061.09	36.54	1,204	137,029	878.65	31.54

- Long Beach residents have higher PQI admission rates for Urinary Tract Infections (UTIs) overall and among those 18-64 than County residents in the same cohorts.
- PQI Emergency Room visit rates for UTIs among Long Beach residents were lower overall than for the County and for all age cohorts except those 65-74.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes
 Source: NY 2013 IP and ED UB-04- SPARCS; Agency for Healthcare Research and Quality (AHRQ) PQI Definition Version v4.5

PQI13: Angina Without Procedure

Rate/100,000 in Population (Age 18+)

Age Cohort	INPATIENT PQI RATE					EMERGENCY ROOM PQI RATE				
	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY		
PSA OVERALL	83	398,212	20.84	4.31	82	398,212	20.59	-0.24		
18-39	3	145,148	2.07	0.93	6	145,148	4.13	1.58		
40-64	44	179,489	24.51	5.27	49	179,489	27.30	2.46		
65-74	16	38,421	41.64	5.12	17	38,421	44.25	4.84		
75+	20	35,154	56.89	21.40	10	35,154	28.45	-16.38		
SSA OVERALL	95	406,819	23.35	6.82	111	406,819	27.28	6.45		
18-39	1	147,293	0.68	-0.46	3	147,293	2.04	-0.52		
40-64	57	185,078	30.80	11.55	59	185,078	31.88	7.04		
65-74	18	36,446	49.39	12.87	20	36,446	54.88	15.47		
75+	19	38,002	50.00	14.51	29	38,002	76.31	31.48		
PSA/SSA OVERALL	178	805,031	22.11	5.58	193	805,031	23.97	3.14		
18-39	4	292,441	1.37	0.23	9	292,441	3.08	0.52		
40-64	101	364,567	27.70	8.46	108	364,567	29.62	4.79		
65-74	34	74,867	45.41	8.89	37	74,867	49.42	10.02		
75+	39	73,156	53.31	17.82	39	73,156	53.31	8.48		
LONG BEACH* OVERALL	6	34,302	17.49	0.96	6	34,302	17.49	-3.34		
18-39	1	11,771	8.50	7.36	1	11,771	8.50	5.94		
40-64	1	15,426	6.48	-12.77	5	15,426	32.41	7.58		
65-74	1	3,790	26.39	-10.13	-	3,790	-	-39.40		
75+	3	3,315	90.50	55.01	-	3,315	-	-44.83		
NASSAU COUNTY OVERALL	173	1,046,352	16.53		218	1,046,352	20.83			
18-39	4	352,056	1.14		9	352,056	2.56			
40-64	93	483,172	19.25		120	483,172	24.84			
65-74	38	104,054	36.52		41	104,054	39.40			
75+	38	107,071	35.49		48	107,071	44.83			
QUEENS COUNTY OVERALL	346	1,794,922	19.28	2.74	345	1,794,922	19.22	-1.61		
18-39	13	749,497	1.73	0.60	29	749,497	3.87	1.31		
40-64	208	751,868	27.66	8.42	202	751,868	26.87	2.03		
65-74	61	156,528	38.97	2.45	61	156,528	38.97	-0.43		
75+	64	137,029	46.71	11.21	53	137,029	38.68	-6.15		

- PQI inpatient use rates for Angina were higher than the County overall and particularly for those over 75 than the County.
- PQI ED rates for Angina were lower overall among Long Beach residents and for those 65+ than the County. The rate for those 18-64 were higher than the County.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes
 Source: NY 2013 IP and ED UB-04- SPARCS; Agency for Healthcare Research and Quality (AHRQ) PQI Definition Version v4.5

PQI14: Uncontrolled Diabetes

Rate/100,000 in Population (Age 18+)

Age Cohort	INPATIENT PQI RATE					EMERGENCY ROOM PQI RATE				
	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY		
PSA OVERALL	111	398,212	27.87	7.80	73	398,212	18.33	7.34		
18-39	15	145,148	10.33	2.38	13	145,148	8.96	2.42		
40-64	59	179,489	32.87	11.76	40	179,489	22.29	8.42		
65-74	19	38,421	49.45	19.66	10	38,421	26.03	13.53		
75+	18	35,154	51.20	5.44	10	35,154	28.45	17.24		
SSA OVERALL	129	406,819	31.71	11.64	147	406,819	36.13	25.14		
18-39	17	147,293	11.54	3.59	29	147,293	19.69	13.16		
40-64	64	185,078	34.58	13.47	90	185,078	48.63	34.76		
65-74	26	36,446	71.34	41.55	15	36,446	41.16	28.66		
75+	22	38,002	57.89	12.13	13	38,002	34.21	23.00		
PSA/SSA OVERALL	240	805,031	29.81	9.74	220	805,031	27.33	16.34		
18-39	32	292,441	10.94	2.99	42	292,441	14.36	7.83		
40-64	123	364,567	33.74	12.63	130	364,567	35.66	21.79		
65-74	45	74,867	60.11	30.31	25	74,867	33.39	20.90		
75+	40	73,156	54.68	8.91	23	73,156	31.44	20.23		
LONG BEACH* OVERALL	5	34,302	14.58	-5.49	-	34,302	-	-10.99		
18-39	-	11,771	0.00	-7.95	-	11,771	-	-6.53		
40-64	4	15,426	25.93	4.82	-	15,426	-	-13.87		
65-74	-	3,790	0.00	-29.79	-	3,790	-	-12.49		
75+	1	3,315	30.17	-15.60	-	3,315	-	-11.21		
NASSAU COUNTY OVERALL	210	1,046,352	20.07		115	1,046,352	10.99			
18-39	28	352,056	7.95		23	352,056	6.53			
40-64	102	483,172	21.11		67	483,172	13.87			
65-74	31	104,054	29.79		13	104,054	12.49			
75+	49	107,071	45.76		12	107,071	11.21			
QUEENS COUNTY OVERALL	451	1,794,922	25.13	5.06	687	1,794,922	38.27	27.28		
18-39	56	749,497	7.47	-0.48	109	749,497	14.54	8.01		
40-64	207	751,868	27.53	6.42	428	751,868	56.92	43.06		
65-74	96	156,528	61.33	31.54	82	156,528	52.39	39.89		
75+	92	137,029	67.14	21.38	68	137,029	49.62	38.42		

- The Inpatient PQI rate for Uncontrolled Diabetes is lower than the County overall and for all age cohorts except those 40-64. There were no reported ED visits with Uncontrolled Diabetes.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes

Source: NY 2013 IP and ED UB-04- SPARCS; Agency for Healthcare Research and Quality (AHRQ) PQI Definition Version v4.5

PQI15: Asthma In Younger Adults

Rate/100,000 in Population (Age 18-39)

	Age Cohort	INPATIENT PQI RATE				EMERGENCY ROOM PQI RATE			
		NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY
PSA	18-39	92	125,373	73.38	29.07	802	144,570	554.75	217.30
SSA	18-39	77	138,717	55.51	11.20	891	144,901	614.90	277.46
PSA/SSA	18-39	169	264,089	63.99	19.68	1,693	289,470	584.86	247.42
LONG BEACH*	18-39	-	-	n/a	n/a	30	11,193	268.04	-69.41
NASSAU COUNTY	18-39	156	352,056	44.31		1,188	352,056	337.45	
QUEENS COUNTY	18-39	327	749,497	43.63	-0.68	3,961	749,497	528.49	191.04

- There were no cases of PQI Emergency Room visits for Asthma among Long Beach resident adults 18-39.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes

Source: NY 2013 IP and ED UB-04- SPARCS; Agency for Healthcare Research and Quality (AHRQ) PQI Definition Version v4.5

PQI16: Lower Extremity Amputation

Rate/100,000 Among Patients With Diabetes in Population (Age 18+)

INPATIENT PQI RATE					
Age Cohort	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY	
PSA OVERALL	70	398,212	17.58	3.82	
18-39	3	145,148	2.07	0.93	
40-64	25	179,489	13.93	3.58	
65-74	19	38,421	49.45	2.36	
75+	23	35,154	65.43	27.13	
SSA OVERALL	65	406,819	15.98	2.22	
18-39	1	147,293	0.68	-0.46	
40-64	23	185,078	12.43	2.08	
65-74	24	36,446	65.85	18.76	
75+	17	38,002	44.73	6.44	
PSA/SSA OVERALL	135	805,031	16.77	3.01	
18-39	4	292,441	1.37	0.23	
40-64	48	364,567	13.17	2.82	
65-74	43	74,867	57.44	10.34	
75+	40	73,156	54.68	16.39	
LONG BEACH* OVERALL	4	34,302	11.66	-2.10	
18-39	-	11,771	0.00	-1.14	
40-64	2	15,426	12.97	2.62	
65-74	1	3,790	26.39	-20.71	
75+	1	3,315	30.17	-8.13	
NASSAU COUNTY OVERALL	144	1,046,352	13.76		
18-39	4	352,056	1.14		
40-64	50	483,172	10.35		
65-74	49	104,054	47.09		
75+	41	107,071	38.29		
QUEENS COUNTY OVERALL	186	1,794,922	10.36	-3.40	
18-39	1	749,497	0.13	-1.00	
40-64	75	751,868	9.98	-0.37	
65-74	55	156,528	35.14	-11.95	
75+	55	137,029	40.14	1.85	

- The rate/100,000 of Long Beach residents with Diabetes who had a Lower Extremity Amputation was lower overall among those 18-39 and those 65+ than the County. Rates were worse for those 40-64 compared to the County.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes

Source: NY 2013 IP and ED UB-04- SPARCS; Agency for Healthcare Research and Quality (AHRQ) PQI Definition Version v4.5

PQI90: Prevention Quality Overall Composite

Rate/100,000 in Population (Age 18+); PQI # 1,3,5,7,8,10,11,12,13,14,15,16

Age Cohort	INPATIENT PQI RATE				EMERGENCY ROOM PQI RATE			
	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY
PSA OVERALL	6,331	398,212	1589.86	207.82	7,111	398,212	1,785.73	440.58
18-39	538	145,148	370.66	124.39	2,517	145,148	1,734.09	473.50
40-64	2,111	179,489	1176.12	384.89	2,867	179,489	1,597.31	487.15
65-74	1,132	38,421	2946.31	492.77	786	38,421	2,045.76	502.33
75+	2,550	35,154	7253.80	512.48	941	35,154	2,676.79	185.92
SSA OVERALL	6,146	406,819	1510.75	128.71	7,676	406,819	1,886.83	541.68
18-39	419	147,293	284.47	38.20	2,640	147,293	1,792.35	531.75
40-64	1,959	185,078	1058.47	267.24	3,213	185,078	1,736.02	625.86
65-74	1,202	36,446	3298.03	844.50	751	36,446	2,060.58	517.15
75+	2,566	38,002	6752.28	10.96	1,072	38,002	2,820.90	330.03
PSA/SSA OVERALL	12,477	805,031	1549.88	167.84	14,787	805,031	1,836.82	491.67
18-39	957	292,441	327.25	80.98	5,157	292,441	1,763.43	502.84
40-64	4,070	364,567	1116.39	325.16	6,080	364,567	1,667.73	557.57
65-74	2,334	74,867	3117.53	663.99	1,537	74,867	2,052.97	509.54
75+	5,116	73,156	6993.27	251.95	2,013	73,156	2,751.65	260.78
LONG BEACH* OVERALL	475	34,302	1384.76	2.72	417	34,302	1,215.67	-129.48
18-39	24	11,771	203.89	-42.38	93	11,771	790.08	-470.52
40-64	118	15,426	764.94	-26.29	172	15,426	1,115.00	4.84
65-74	80	3,790	2110.82	-342.72	63	3,790	1,662.27	118.84
75+	253	3,315	7631.98	890.65	89	3,315	2,684.77	193.90
NASSAU COUNTY OVERALL	14,461	1,046,352	1382.04		14,075	1,046,352	1,345.15	
18-39	867	352,056	246.27		4,438	352,056	1,260.60	
40-64	3,823	483,172	791.23		5,364	483,172	1,110.16	
65-74	2,553	104,054	2453.53		1,606	104,054	1,543.43	
75+	7,218	107,071	6741.32		2,667	107,071	2,490.87	
QUEENS COUNTY OVERALL	22,994	1,794,922	1281.06	-100.98	30,928	1,794,922	1,723.08	377.93
18-39	1,886	749,497	251.64	5.37	11,652	749,497	1,554.64	294.05
40-64	7,543	751,868	1003.23	212.00	12,928	751,868	1,719.45	609.29
65-74	4,347	156,528	2777.14	323.61	3,019	156,528	1,928.73	385.30
75+	9,218	137,029	6727.04	-14.28	3,329	137,029	2,429.41	-61.46

- The PQI Composite rate for Long Beach admissions is slightly higher overall than the County, a factor driven by the higher rate for those over 75.
- The PQI Composite ED rate is better overall and for those 18-39 than the County, but it compares unfavorably to the County for all age cohorts over 40.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes
 Source: NY 2013 IP and ED UB-04- SPARCS; Agency for Healthcare Research and Quality (AHRQ) PQI Definition Version v4.5

PQI91: Prevention Quality Acute Composite

Rate/100,000 in Population (Age 18+); PQI # 10,11,12

Age Cohort	INPATIENT PQI RATE				EMERGENCY ROOM PQI RATE			
	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY
PSA OVERALL	1,860	398,212	467.09	-17.93	3,263	398,212	819.41	137.14
18-39	179	145,148	123.32	24.47	1,467	145,148	1,010.69	206.84
40-64	456	179,489	254.05	40.26	1,057	179,489	588.89	124.88
65-74	281	38,421	731.37	-31.69	265	38,421	689.73	69.86
75+	944	35,154	2685.33	-23.16	474	35,154	1,348.35	20.26
SSA OVERALL	1,862	406,819	457.70	-27.32	3,328	406,819	818.05	135.78
18-39	133	147,293	90.30	-8.55	1,508	147,293	1,023.81	219.96
40-64	440	185,078	237.74	23.94	1,025	185,078	553.82	89.80
65-74	324	36,446	888.99	125.92	262	36,446	718.87	99.00
75+	965	38,002	2539.34	-169.14	533	38,002	1,402.56	74.47
PSA/SSA OVERALL	3,722	805,031	462.34	-22.68	6,591	805,031	818.73	136.45
18-39	312	292,441	106.69	7.84	2,975	292,441	1,017.30	213.45
40-64	896	364,567	245.77	31.98	2,082	364,567	571.09	107.07
65-74	605	74,867	808.10	45.03	527	74,867	703.91	84.04
75+	1,909	73,156	2609.49	-98.99	1,007	73,156	1,376.51	48.42
LONG BEACH* OVERALL	170	34,302	495.60	10.58	194	34,302	565.56	-116.71
18-39	14	11,771	118.94	20.09	56	11,771	475.75	-328.11
40-64	32	15,426	207.44	-6.35	63	15,426	408.40	-55.62
65-74	24	3,790	633.25	-129.82	29	3,790	765.17	145.30
75+	100	3,315	3016.59	308.11	46	3,315	1,387.63	59.54
NASSAU COUNTY OVERALL	5,075	1,046,352	485.02		7,139	1,046,352	682.28	
18-39	348	352,056	98.85		2,830	352,056	803.85	
40-64	1,033	483,172	213.80		2,242	483,172	464.02	
65-74	794	104,054	763.07		645	104,054	619.87	
75+	2,900	107,071	2708.48		1,422	107,071	1,328.09	
QUEENS COUNTY OVERALL	7,403	1,794,922	412.44	-72.58	14,187	1,794,922	790.40	108.12
18-39	688	749,497	91.79	-7.05	6,825	749,497	910.61	106.76
40-64	1,794	751,868	238.61	24.81	4,566	751,868	607.29	143.27
65-74	1,239	156,528	791.55	28.49	1,148	156,528	733.42	113.54
75+	3,682	137,029	2687.02	-21.46	1,648	137,029	1,202.67	-125.43

- The PQI Inpatient Acute Composite rate was higher than the County overall and for those 18-39 and over 75.
- The PQI ED Acute Composite rate was lower overall and for those 18-64 than the County. Those over 65 had rates higher than the County.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes
 Source: NY 2013 IP and ED UB-04- SPARCS; Agency for Healthcare Research and Quality (AHRQ) PQI Definition Version v4.5

PQI91: Prevention Quality Chronic Composite

Rate/100,000 in Population (Age 18+); PQI # 1,3,5,7,8,13,14,15,16

Age Cohort	INPATIENT PQI RATE				EMERGENCY ROOM PQI RATE			
	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY	NUMERATOR	DENOMINATOR	OBSVD RATE/100,000	VARIANCE TO NASSAU CTY
PSA OVERALL	4,471	398,212	1122.77	225.75	3,848	398,212	966.32	303.45
18-39	359	145,148	247.33	99.91	1,050	145,148	723.40	266.65
40-64	1,655	179,489	922.06	344.63	1,810	179,489	1,008.42	362.27
65-74	851	38,421	2214.93	524.47	521	38,421	1,356.03	432.47
75+	1,606	35,154	4568.47	535.63	467	35,154	1,328.44	165.66
SSA OVERALL	4,284	406,819	1053.05	156.03	4,348	406,819	1,068.78	405.91
18-39	286	147,293	194.17	46.75	1,132	147,293	768.54	311.79
40-64	1,519	185,078	820.74	243.30	2,188	185,078	1,182.20	536.06
65-74	878	36,446	2409.04	718.58	489	36,446	1,341.71	418.15
75+	1,601	38,002	4212.94	180.10	539	38,002	1,418.35	255.57
PSA/SSA OVERALL	8,755	805,031	1087.54	190.51	8,196	805,031	1,018.10	355.22
18-39	645	292,441	220.56	73.14	2,182	292,441	746.13	289.39
40-64	3,174	364,567	870.62	293.19	3,998	364,567	1,096.64	450.50
65-74	1,729	74,867	2309.43	618.96	1,010	74,867	1,349.06	425.50
75+	3,207	73,156	4383.78	350.94	1,006	73,156	1,375.14	212.36
LONG BEACH* OVERALL	305	34,302	889.16	-7.86	223	34,302	650.11	-12.77
18-39	10	11,771	84.95	-62.47	37	11,771	314.33	-142.41
40-64	86	15,426	557.50	-19.93	109	15,426	706.60	60.45
65-74	56	3,790	1477.57	-212.90	34	3,790	897.10	-26.46
75+	153	3,315	4615.38	582.55	43	3,315	1,297.13	134.35
NASSAU COUNTY OVERALL	9,386	1,046,352	897.02		6,936	1,046,352	662.87	
18-39	519	352,056	147.42		1,608	352,056	456.75	
40-64	2,790	483,172	577.43		3,122	483,172	646.15	
65-74	1,759	104,054	1690.47		961	104,054	923.56	
75+	4,318	107,071	4032.84		1,245	107,071	1,162.78	
QUEENS COUNTY OVERALL	15,591	1,794,922	868.62	-28.40	16,741	1,794,922	932.69	269.81
18-39	1,198	749,497	159.84	12.42	4,827	749,497	644.03	187.29
40-64	5,749	751,868	764.63	187.19	8,362	751,868	1,112.16	466.02
65-74	3,108	156,528	1985.59	295.12	1,871	156,528	1,195.31	271.75
75+	5,536	137,029	4040.02	7.18	1,681	137,029	1,226.75	63.97

- The PQI Inpatient Chronic Composite was lower overall and for Long Beach residents 18-74 than the County, but was higher than the County for those 75+.
- The PQI ED Chronic Composite was lower overall and for residents 18-39 and 65-74 than the County. The rates were higher than the County for residents aged 40-64 and 75+.

Most current data available; *Long Beach Includes Long Beach, Atlantic Beach, Point Lookout ZIP Codes
 Source: NY 2013 IP and ED UB-04- SPARCS; Agency for Healthcare Research and Quality (AHRQ) PQI Definition Version v4.5