

## Sample from 01/01/2010 to 12/31/2010

### NIHSS: Study Sample

Exclusions	Hospital Stays		Patients		Facilities	
	#	%	#	%	#	%
Sample from 01/01/2010 to 12/31/2010	364,275	100.00	301,304	100.00	1,502	100.00
Excluding stroke symptoms resolved at time of presentation	45,621	12.52	42,840	14.22	1,357	90.35
Remaining	318,654	87.48	265,554	88.13	1,498	99.73
Excluding SAH/IAH/No Stroke	56,545	17.74	52,363	19.72	1,360	90.79
Study sample	262,109	82.26	220,931	83.20	1,495	99.80
NIHSS performed	160,003	61.04	138,286	62.59	1,341	89.70

	NIHSS		
	All	Yes	No
<b>2010</b>			
Total N Eligible	262,109	160,003	102,106
Age			
Mean	70.56	70.35	70.90
STD	14.75	14.74	14.76
≥70	55.84%	55.32%	56.67%
Male	46.92%	47.39%	46.17%
Race			
White	70.28%	71.25%	68.75%
Black	16.41%	15.71%	17.50%
Hispanic	6.79%	6.84%	6.72%

#### 2a2.1 Data sample

#### 2.b3.1 Data sample analysis for exclusions

#### 2.b.3.2 Analytic Method for Exclusions

#### 2b3.3 Results for Exclusions

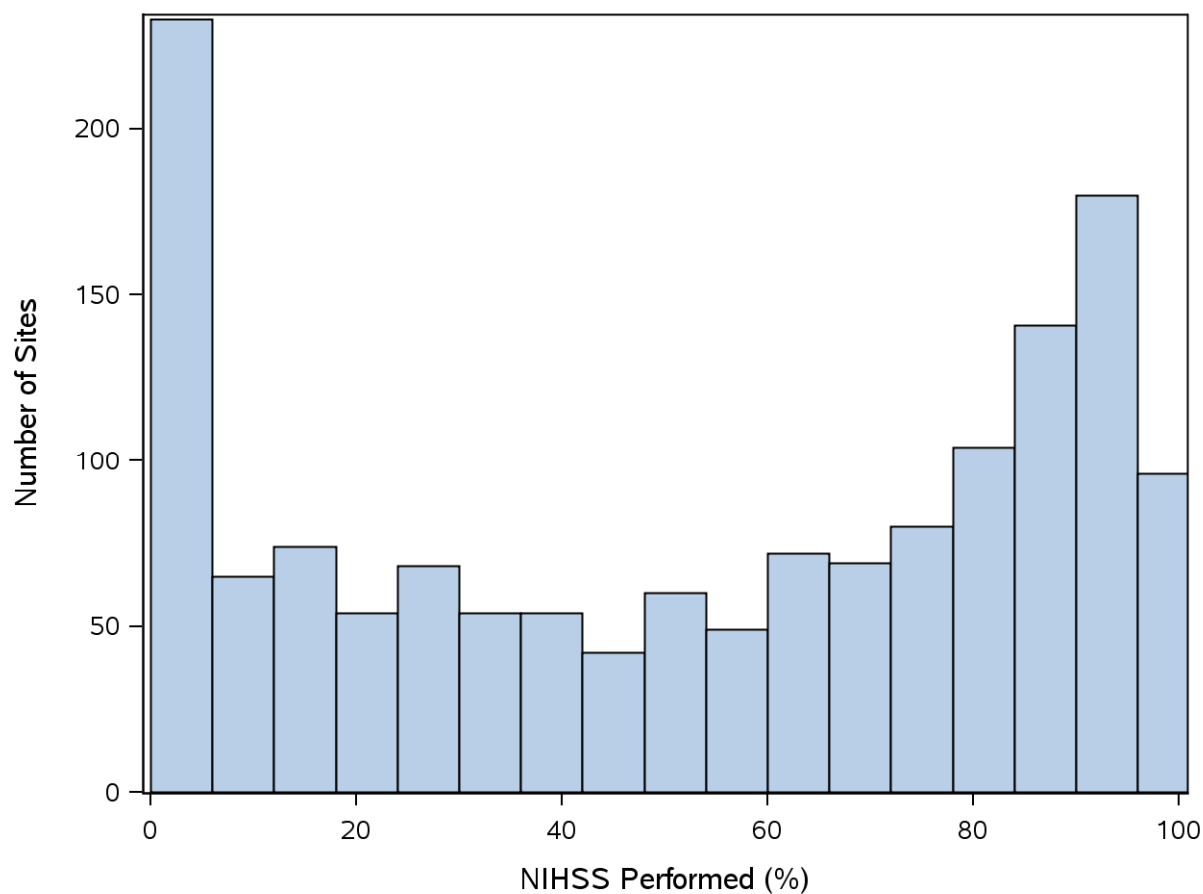
**Sample from 01/01/2010 to 12/31/2010**  
**Distribution of NIHSS Performed**  
**Overall**

Description	Hospital Volume	% Patients with NIHSS Performed
N	1495	1495
Mean	175.32	52.62%
Std Deviation	152.17	34.67%
100% Max	1182	100.00%
99%	677	100.00%
95%	488	96.64%
90%	370	94.22%
75% Q3	240	86.09%
50% Median	145	59.35%
25% Q1	60	18.25%
10%	17	0.00%
5%	6	0.00%
1%	1	0.00%
0% Min	1	0.00%
Among eligible patients for NIHSS performed		

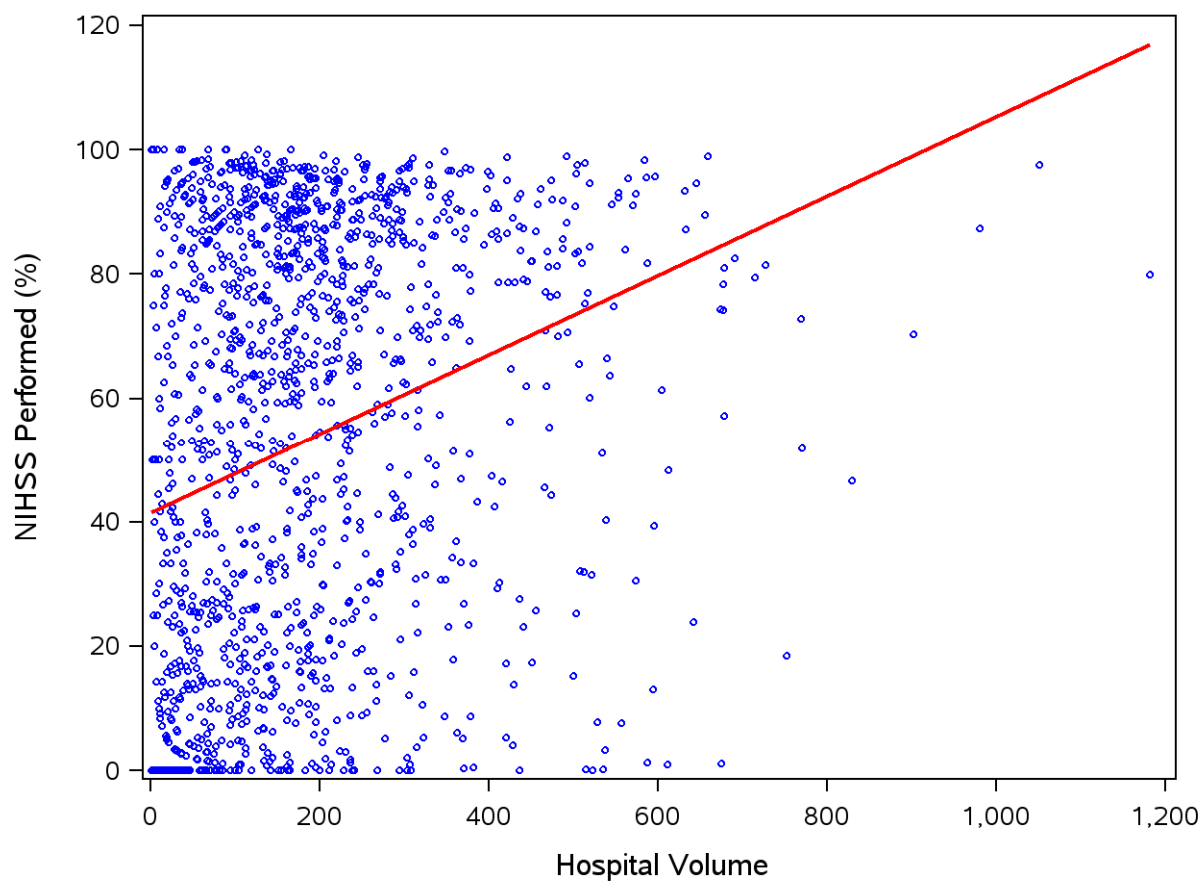
**Identification of Meaningful Differences in Performance**  
**2b5.3 Testing Results**

**Sample from 01/01/2010 to 12/31/2010**  
**Distribution of NIHSS Performed**  
**Overall**

**Identification of Meaningful Differences in Performance**  
**2b5.3 Testing Results**



**Sample from 01/01/2010 to 12/31/2010**  
**Distribution of NIHSS Performed**  
**Overall**



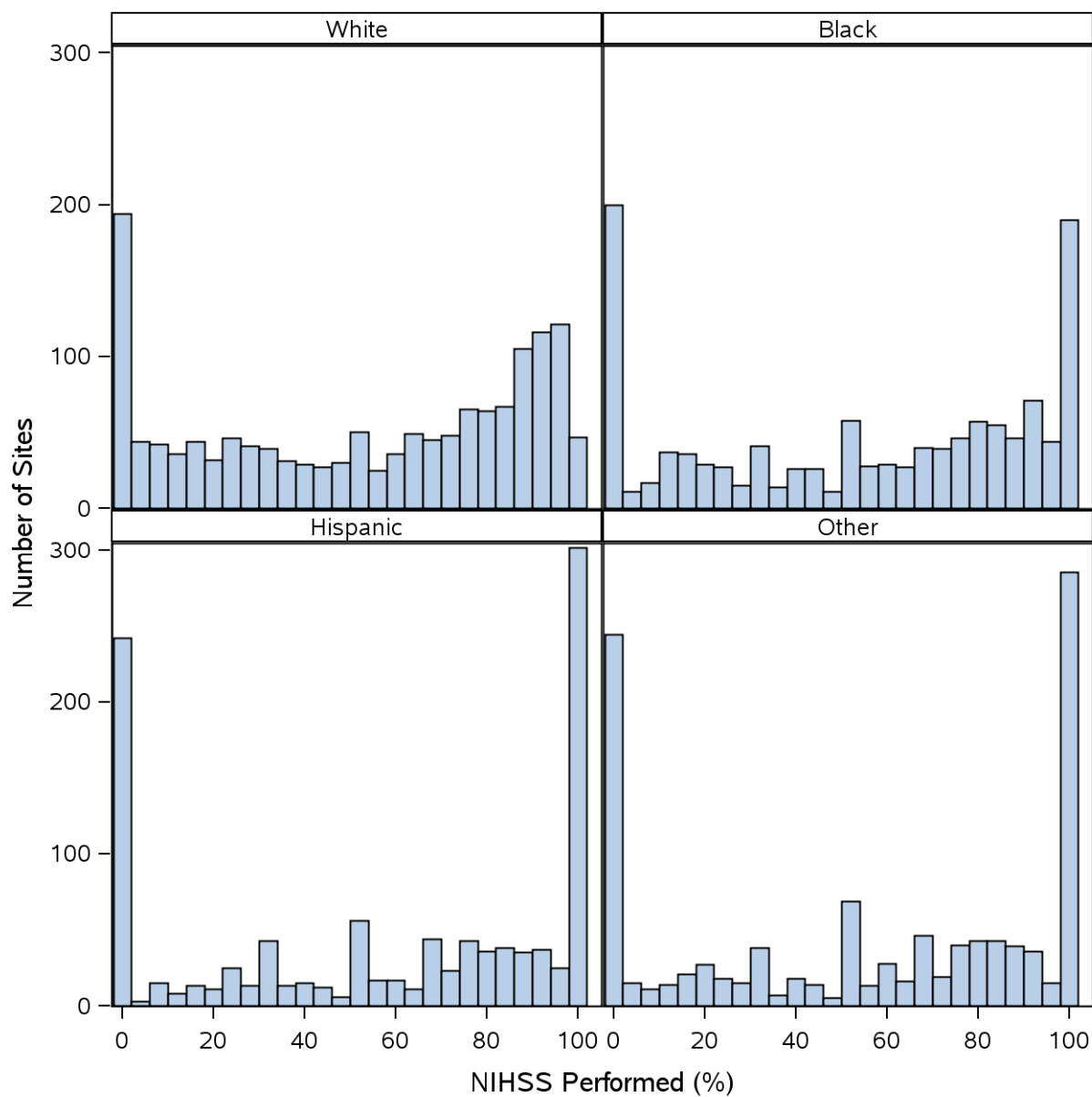
**Sample from 01/01/2010 to 12/31/2010**  
**Distribution of NIHSS Performed**  
**By Races**

	White		Black		Hispanic		Other	
Description	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed
N	1473	1473	1220	1220	1103	1103	1139	1139
Mean	125.05	53.24%	35.25	55.17%	16.15	57.54%	15.01	55.50%
Std Deviation	118.73	34.96%	49.30	36.57%	31.78	39.37%	31.61	39.05%
100% Max	1024	100.00%	456	100.00%	419	100.00%	511	100.00%
99%	510	100.00%	213	100.00%	152	100.00%	142	100.00%
95%	357	97.08%	141	100.00%	68	100.00%	61	100.00%
90%	274	94.67%	101	100.00%	41	100.00%	38	100.00%
75% Q3	175	86.79%	44	89.83%	15	100.00%	14	98.00%
50% Median	96	61.19%	15	62.50%	5	67.39%	5	64.71%
25% Q1	36	18.75%	5	18.39%	2	15.79%	2	14.29%
10%	10	0.00%	2	0.00%	1	0.00%	1	0.00%
5%	4	0.00%	1	0.00%	1	0.00%	1	0.00%
1%	1	0.00%	1	0.00%	1	0.00%	1	0.00%
0% Min	1	0.00%	1	0.00%	1	0.00%	1	0.00%

**Disparities in Care**

**2c.1 If measure is stratified for disparities, provide stratified results**

**Sample from 01/01/2010 to 12/31/2010**  
**Distribution of NIHSS Performed**  
**By Races**



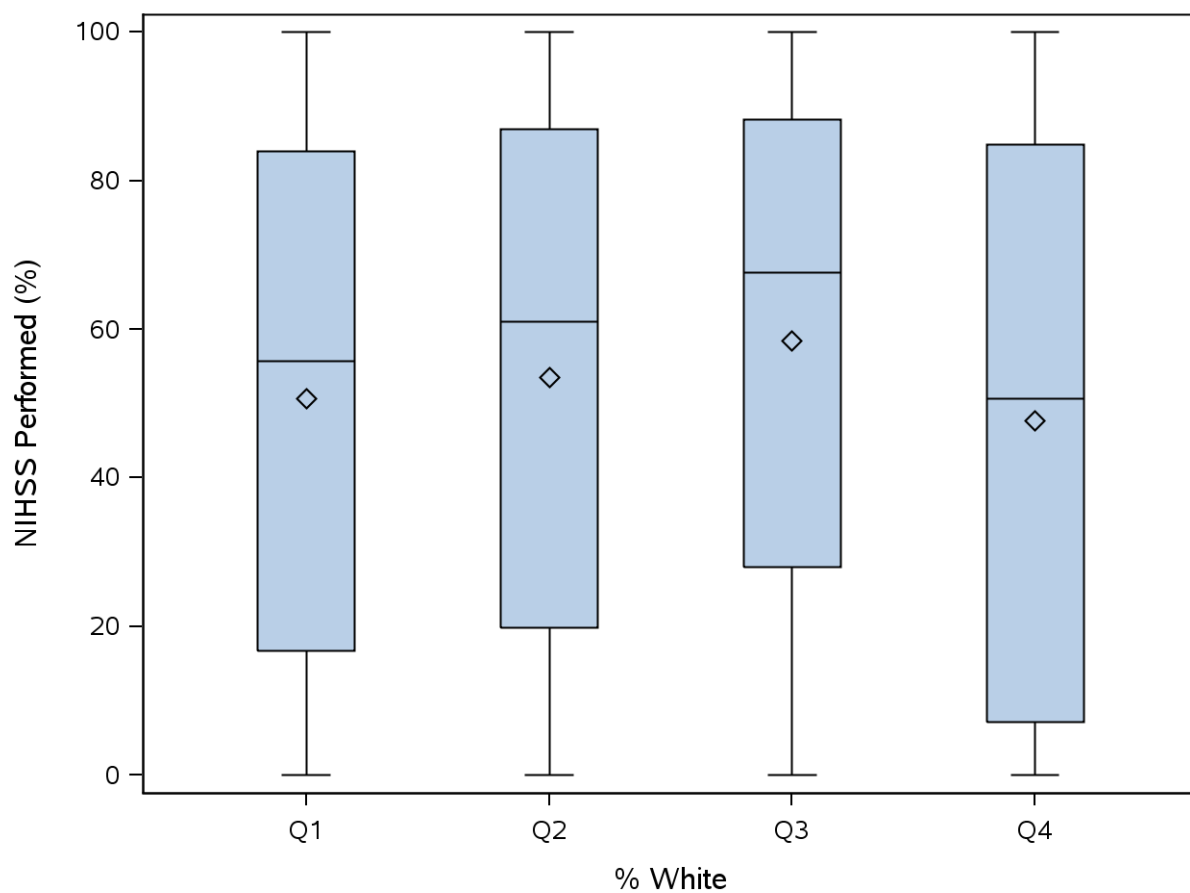
**Sample from 01/01/2010 to 12/31/2010**  
**Distribution of NIHSS Performed**  
**By Races**

		% White (Hospital Quartiles of % White)							
		Q1 (0.00% to 58.81%)		Q2 (58.90% to 79.39%)		Q3 (79.41% to 91.89%)		Q4 (91.91% to 100.0%)	
Description	% White	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed
N	1495	373	373	374	374	375	375	373	373
Mean	71.56%	183.47	50.73%	198.59	53.51%	202.13	58.46%	116.91	47.75%
Std Deviation	25.93%	152.92	34.01%	149.27	34.31%	167.81	32.63%	119.15	36.86%
100% Max	100.0%	902	100.00%	981	100.00%	1182	100.00%	677	100.00%
99%	100.0%	659	100.00%	679	99.02%	770	98.98%	505	100.00%
95%	100.0%	507	96.55%	513	96.60%	540	96.77%	361	96.91%
90%	97.82%	406	92.92%	411	93.09%	422	94.92%	277	94.48%
75% Q3	91.89%	252	83.98%	264	86.89%	272	88.21%	175	84.85%
50% Median	79.41%	151	55.79%	166	61.13%	172	67.63%	77	50.72%
25% Q1	58.90%	65	16.67%	98	19.79%	81	28.00%	23	7.14%
10%	30.17%	24	1.32%	30	2.07%	30	4.55%	5	0.00%
5%	12.11%	5	0.00%	16	0.00%	20	0.00%	1	0.00%
1%	0.00%	1	0.00%	4	0.00%	5	0.00%	1	0.00%
0% Min	0.00%	1	0.00%	3	0.00%	5	0.00%	1	0.00%

**Disparities in Care**

**2c.1 If measure is stratified for disparities, provide stratified results**

**Sample from 01/01/2010 to 12/31/2010**  
**Distribution of NIHSS Performed**  
**By % White**





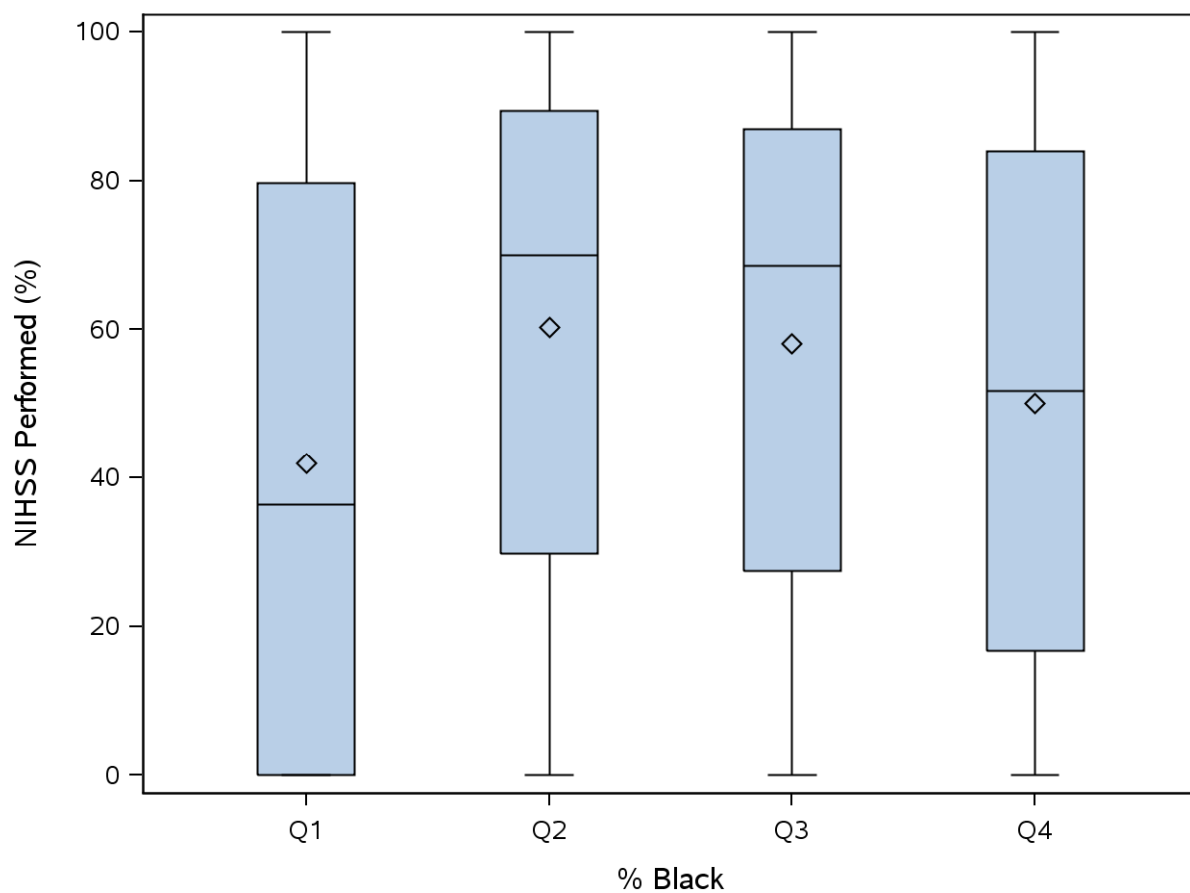
**Sample from 01/01/2010 to 12/31/2010**  
**Distribution of NIHSS**  
**By Races**

		% Black (Hospital Quartile of % Black)							
		Q1 (0.00% to 1.33%)		Q2 (1.33% to 7.19%)		Q3 (7.19% to 20.87%)		Q4 (20.89% to 100.0%)	
Description	% Black	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed
N	1495	373	373	374	374	374	374	374	374
Mean	14.99%	86.97	41.96%	194.58	60.32%	226.41	58.08%	193.09	50.10%
Std Deviation	19.53%	98.57	37.26%	135.97	32.05%	174.33	32.83%	151.87	33.43%
100% Max	100.0%	546	100.00%	829	100.00%	1182	100.00%	769	100.00%
99%	91.05%	420	100.00%	656	98.78%	902	99.11%	659	100.00%
95%	57.42%	298	97.03%	487	96.62%	565	96.77%	506	95.45%
90%	41.46%	226	94.29%	370	95.00%	451	93.98%	416	92.44%
75% Q3	20.89%	139	79.66%	248	89.44%	287	86.89%	272	84.02%
50% Median	7.19%	47	36.36%	168	69.93%	190	68.51%	155	51.70%
25% Q1	1.33%	14	0.00%	96	29.76%	113	27.40%	79	16.67%
10%	0.00%	3	0.00%	55	11.76%	46	3.35%	29	2.70%
5%	0.00%	1	0.00%	35	3.54%	26	0.00%	13	0.00%
1%	0.00%	1	0.00%	20	0.00%	9	0.00%	2	0.00%
0% Min	0.00%	1	0.00%	16	0.00%	5	0.00%	1	0.00%

**Disparities in Care**

**2c.1 If measure is stratified for disparities, provide stratified results**

**Sample from 01/01/2010 to 12/31/2010**  
**Distribution of NIHSS Performed**  
**By % Black**



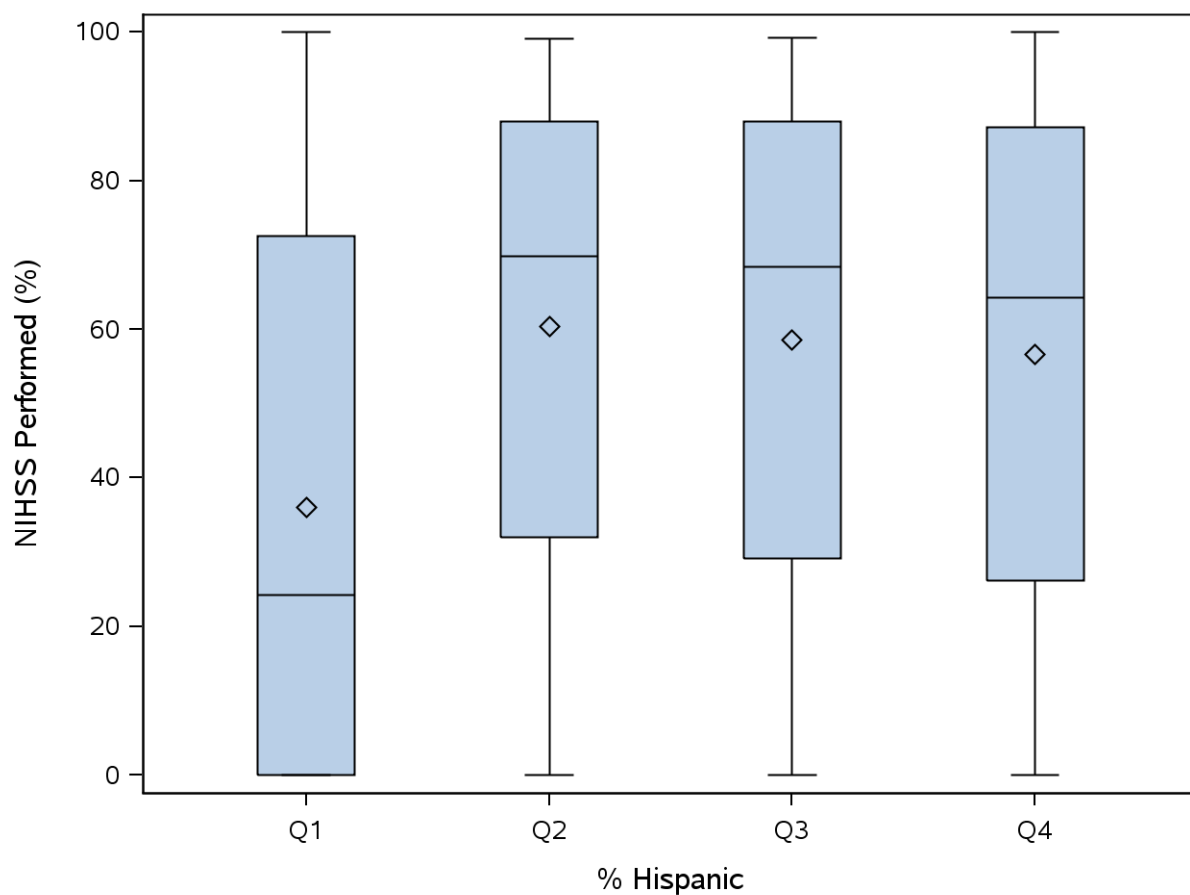
**Sample from 01/01/2010 to 12/31/2010**  
**Distribution of NIHSS**  
**By Races**

		% Hispanic (Hospital Quartiles of % Hispanic)							
		Q1 (0.00% to 0.00%)		Q2 (0.15% to 1.99%)		Q3 (2.00% to 6.64%)		Q4 (6.67% to 100.0%)	
Description	% Hispanic	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed
N	1495	392	392	355	355	373	373	375	375
Mean	6.55%	74.29	35.93%	256.05	60.45%	190.80	58.66%	189.13	56.65%
Std Deviation	13.01%	92.43	35.73%	165.47	31.18%	134.61	32.52%	149.37	33.06%
100% Max	100.0%	679	100.00%	1182	99.11%	981	99.28%	902	100.00%
99%	72.81%	409	100.00%	769	97.62%	587	98.17%	646	100.00%
95%	30.11%	256	96.17%	586	96.08%	437	96.58%	514	98.02%
90%	16.46%	192	92.06%	474	93.88%	352	94.74%	422	94.93%
75% Q3	6.67%	106	72.51%	330	88.00%	256	87.98%	244	87.23%
50% Median	2.00%	41	24.17%	212	69.81%	170	68.42%	161	64.34%
25% Q1	0.00%	12	0.00%	138	31.99%	93	29.07%	85	26.09%
10%	0.00%	4	0.00%	91	11.24%	38	6.25%	29	3.54%
5%	0.00%	1	0.00%	68	2.88%	27	0.72%	11	0.00%
1%	0.00%	1	0.00%	55	0.00%	19	0.00%	3	0.00%
0% Min	0.00%	1	0.00%	51	0.00%	16	0.00%	1	0.00%

**Disparities in Care**

**2c.1 If measure is stratified for disparities, provide stratified results**

**Sample from 01/01/2010 to 12/31/2010**  
**Distribution of NIHSS Performed**  
**By % Hispanic**



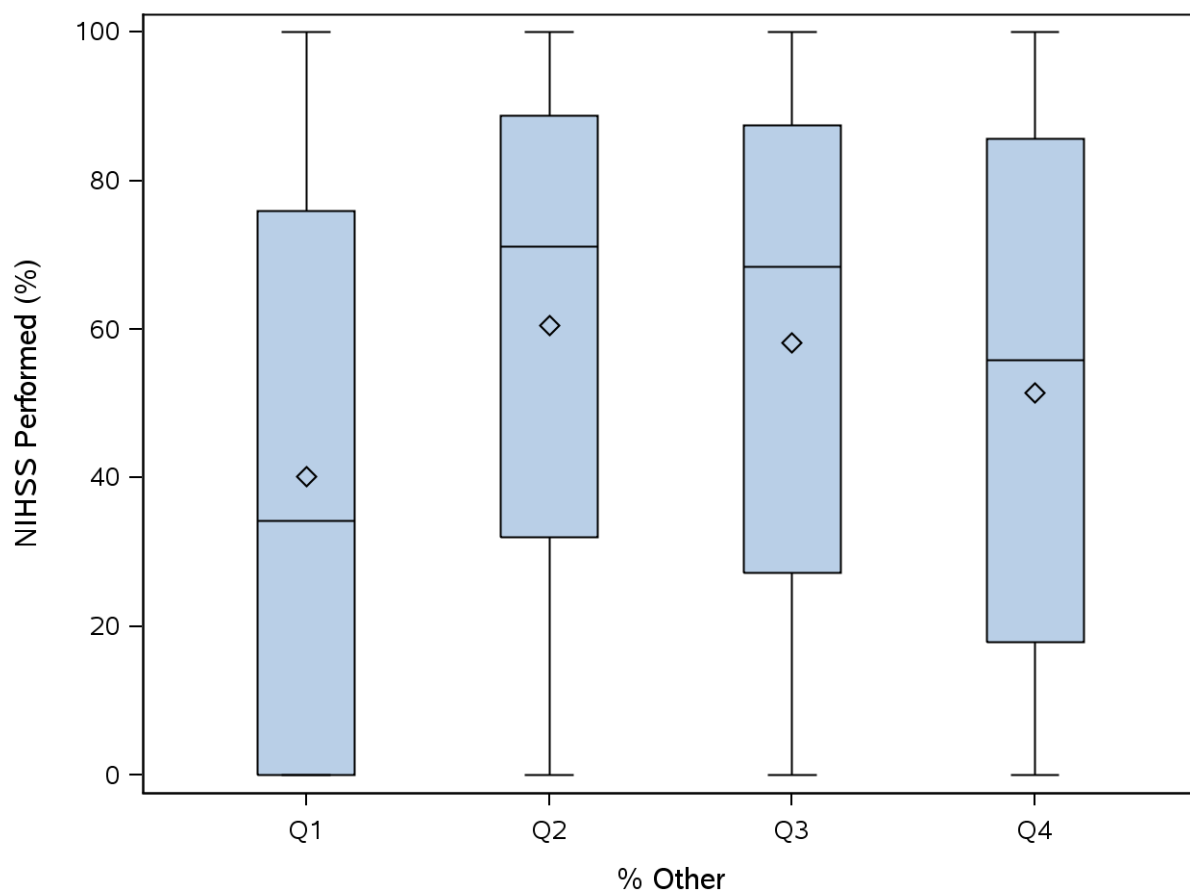
**Sample from 01/01/2010 to 12/31/2010**  
**Distribution of NIHSS**  
**By Races**

		% Other (Hospital Quartiles of % Other Race)							
		Q1 (0.00% to 0.37%)		Q2 (0.38% to 2.11%)		Q3 (2.13% to 6.21%)		Q4 (6.25% to 100.0%)	
Description	% Other	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed
N	1495	373	373	374	374	374	374	374	374
Mean	6.89%	75.31	40.14%	230.00	60.57%	220.14	58.24%	175.59	51.50%
Std Deviation	14.53%	98.82	36.41%	152.20	31.63%	149.10	32.59%	150.31	34.34%
100% Max	100.0%	677	100.00%	1182	100.00%	829	100.00%	981	100.00%
99%	88.14%	426	100.00%	770	98.53%	691	98.98%	613	100.00%
95%	29.41%	290	96.97%	515	96.91%	523	96.69%	482	96.55%
90%	16.70%	202	93.75%	420	94.59%	441	94.96%	379	92.68%
75% Q3	6.25%	97	75.95%	282	88.70%	284	87.50%	247	85.64%
50% Median	2.13%	38	34.17%	193	71.11%	184	68.38%	146	55.89%
25% Q1	0.38%	12	0.00%	133	31.91%	115	27.23%	49	17.86%
10%	0.00%	3	0.00%	86	10.53%	63	7.56%	19	2.38%
5%	0.00%	1	0.00%	69	3.81%	38	0.00%	11	0.00%
1%	0.00%	1	0.00%	51	0.93%	24	0.00%	4	0.00%
0% Min	0.00%	1	0.00%	48	0.00%	19	0.00%	2	0.00%

**Disparities in Care**

**2c.1 If measure is stratified for disparities, provide stratified results**

**Sample from 01/01/2010 to 12/31/2010**  
**Distribution of NIHSS Performed**  
**By % Other**



## Sample from 01/01/2011 to 12/31/2011

### NIHSS: Study Sample

Exclusions	Hospital Stays		Patients		Facilities	
	#	%	#	%	#	%
Sample from 01/01/2011 to 12/31/2011	353,731	100.00	298,274	100.00	1,540	100.00
Excluding stroke symptoms resolved at time of presentation	43,645	12.34	41,320	13.85	1,306	84.81
Remaining	310,086	87.66	263,733	88.42	1,538	99.87
Excluding SAH/IAH/No Stroke	51,929	16.75	48,774	18.49	1,376	89.47
Study sample	258,157	83.25	221,908	84.14	1,535	99.80
NIHSS performed	169,165	65.53	148,396	66.87	1,410	91.86

	NIHSS		
	All	Yes	No
<b>2011</b>			
Total N Eligible	258,157	169,165	88,992
Age			
Mean	70.53	70.34	70.90
STD	14.71	14.73	14.67
≥70	55.52%	54.94%	56.61%
Male	47.33%	47.61%	46.80%
Race			
White	70.42%	70.66%	69.95%
Black	16.18%	15.82%	16.88%
Hispanic	6.83%	7.02%	6.47%

#### 2a2.1 Data sample

#### 2.b3.1 Data sample analysis for exclusions

#### 2.b.3.2 Analytic Method for Exclusions

#### 2.3.3 Results for Exclusions

**Sample from 01/01/2011 to 12/31/2011**  
**Distribution of NIHSS Performed**  
**Overall**

Description	Hospital Volume	% Patients with NIHSS Performed
N	1535	1535
Mean	168.18	58.16%
Std Deviation	145.04	33.83%
100% Max	1188	100.00%
99%	618	100.00%
95%	462	97.35%
90%	363	95.09%
75% Q3	232	88.89%
50% Median	137	67.58%
25% Q1	59	27.53%
10%	16	3.13%
5%	5	0.00%
1%	1	0.00%
0% Min	1	0.00%
Among eligible patients for NIHSS performed		

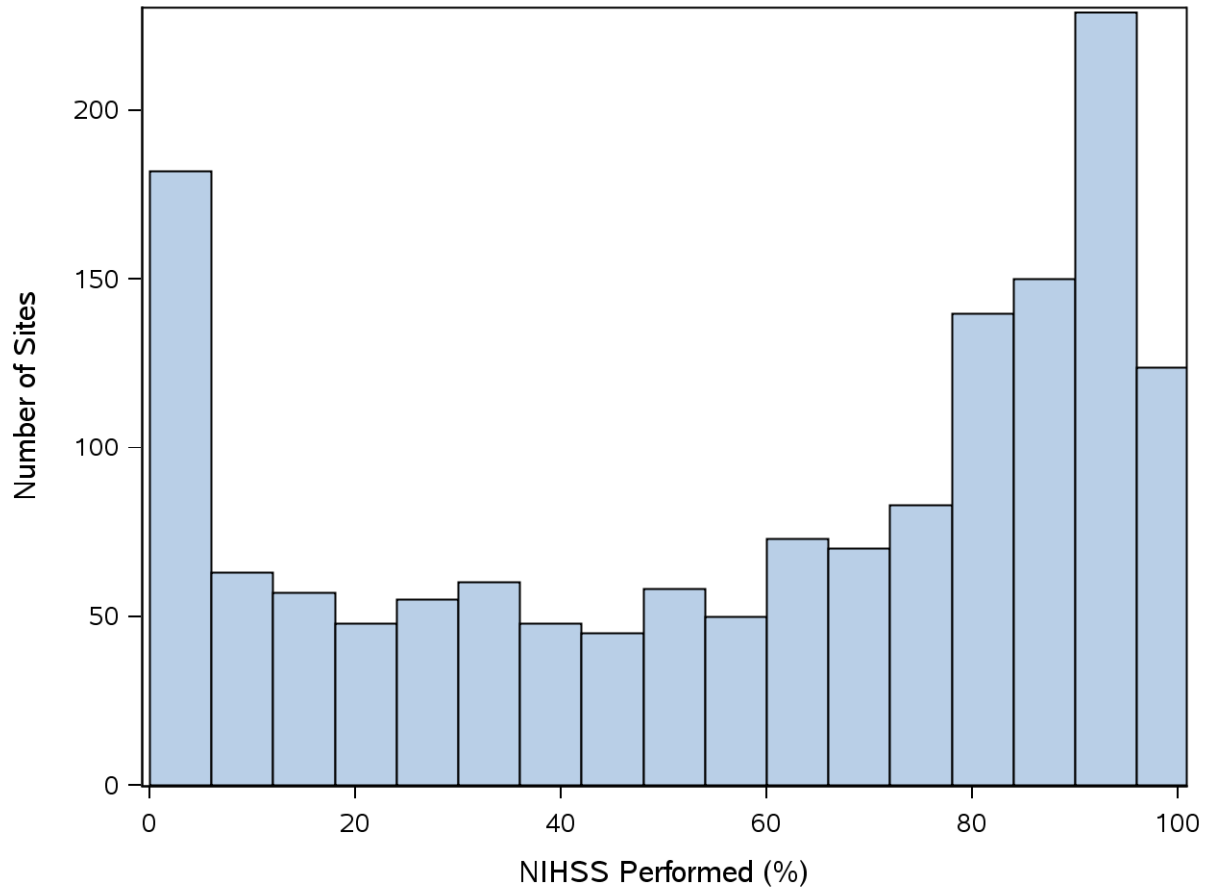
**Identification of Meaningful Differences in Performance**

**2b5.3 Testing Results**

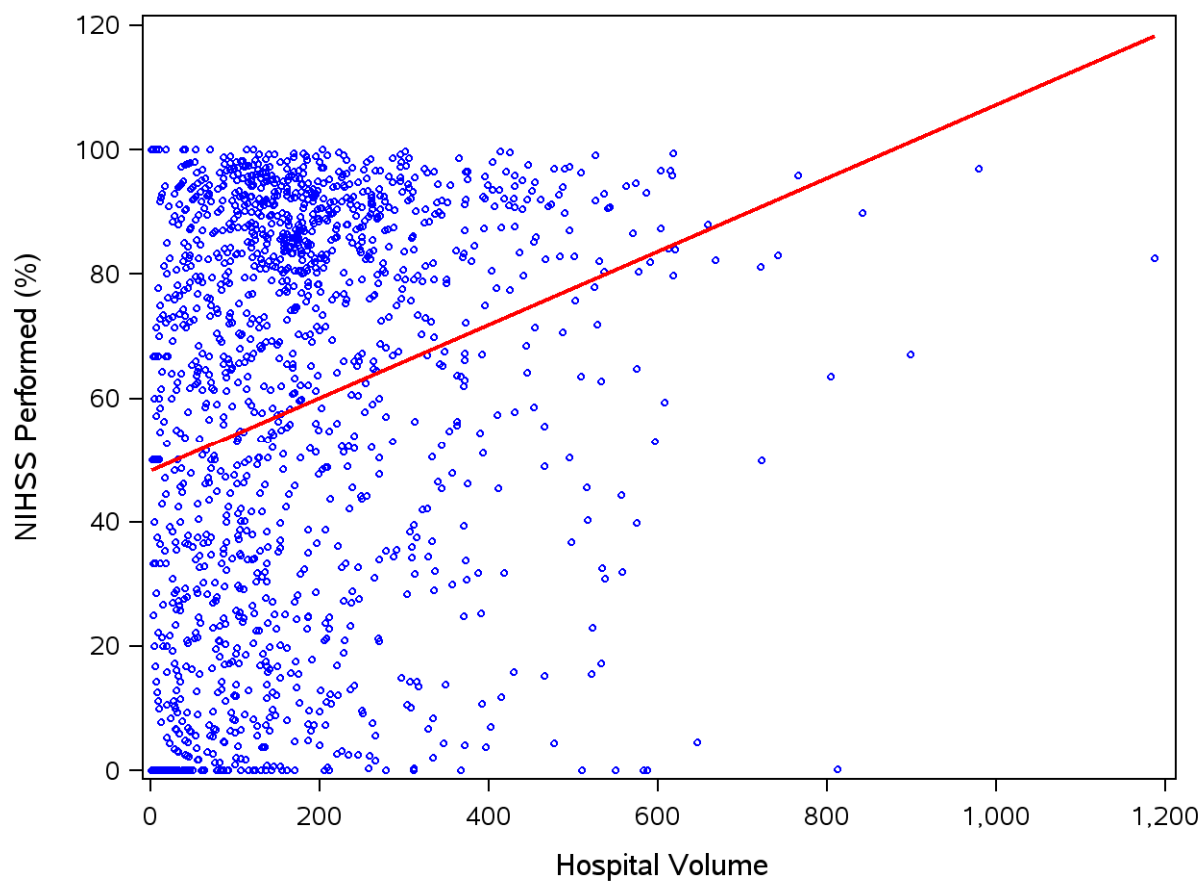


**Sample from 01/01/2011 to 12/31/2011**  
**Distribution of NIHSS Performed**  
**Overall**

**Identification of Meaningful Differences in Performance**  
**2b5.3 Testing Results**



Sample from 01/01/2011 to 12/31/2011  
Distribution of NIHSS Performed  
Overall



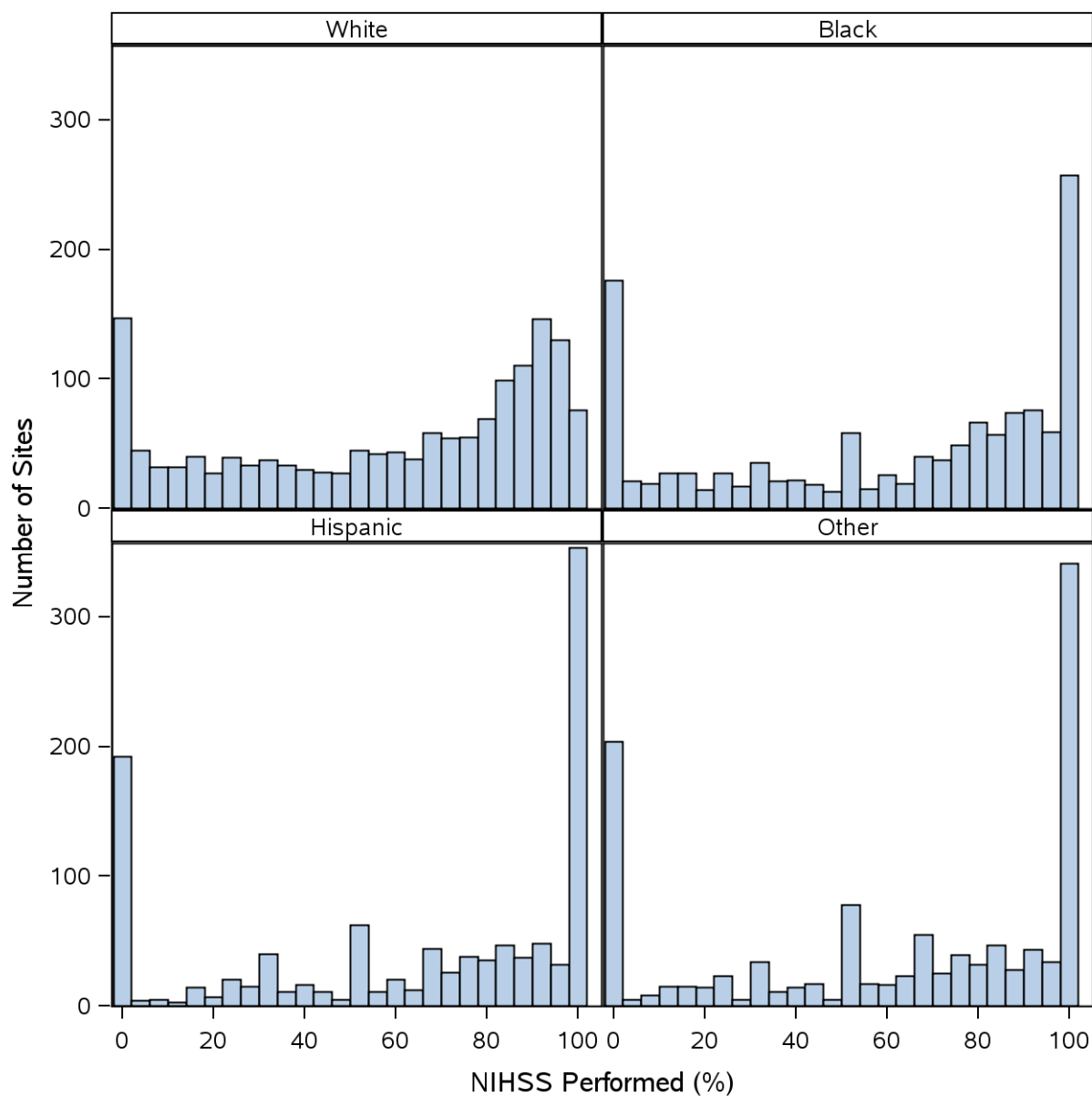
**Sample from 01/01/2011 to 12/31/2011**  
**Distribution of NIHSS Performed**  
**By Races**

	White		Black		Hispanic		Other	
Description	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed
N	1515	1515	1270	1270	1109	1109	1148	1148
Mean	119.99	58.52%	32.89	60.73%	15.90	63.74%	14.78	61.47%
Std Deviation	113.80	33.90%	46.37	36.62%	30.63	37.78%	33.54	37.94%
100% Max	1023	100.00%	375	100.00%	385	100.00%	527	100.00%
99%	493	100.00%	216	100.00%	145	100.00%	162	100.00%
95%	341	98.03%	131	100.00%	66	100.00%	56	100.00%
90%	266	95.45%	89	100.00%	40	100.00%	33	100.00%
75% Q3	165	88.89%	41	93.97%	16	100.00%	13	100.00%
50% Median	92	68.57%	15	74.70%	5	77.38%	5	72.22%
25% Q1	37	27.59%	4	27.27%	2	33.33%	2	28.57%
10%	9	2.52%	2	0.00%	1	0.00%	1	0.00%
5%	3	0.00%	1	0.00%	1	0.00%	1	0.00%
1%	1	0.00%	1	0.00%	1	0.00%	1	0.00%
0% Min	1	0.00%	1	0.00%	1	0.00%	1	0.00%

**Disparities in Care**

**2c.1 If measure is stratified for disparities, provide stratified results**

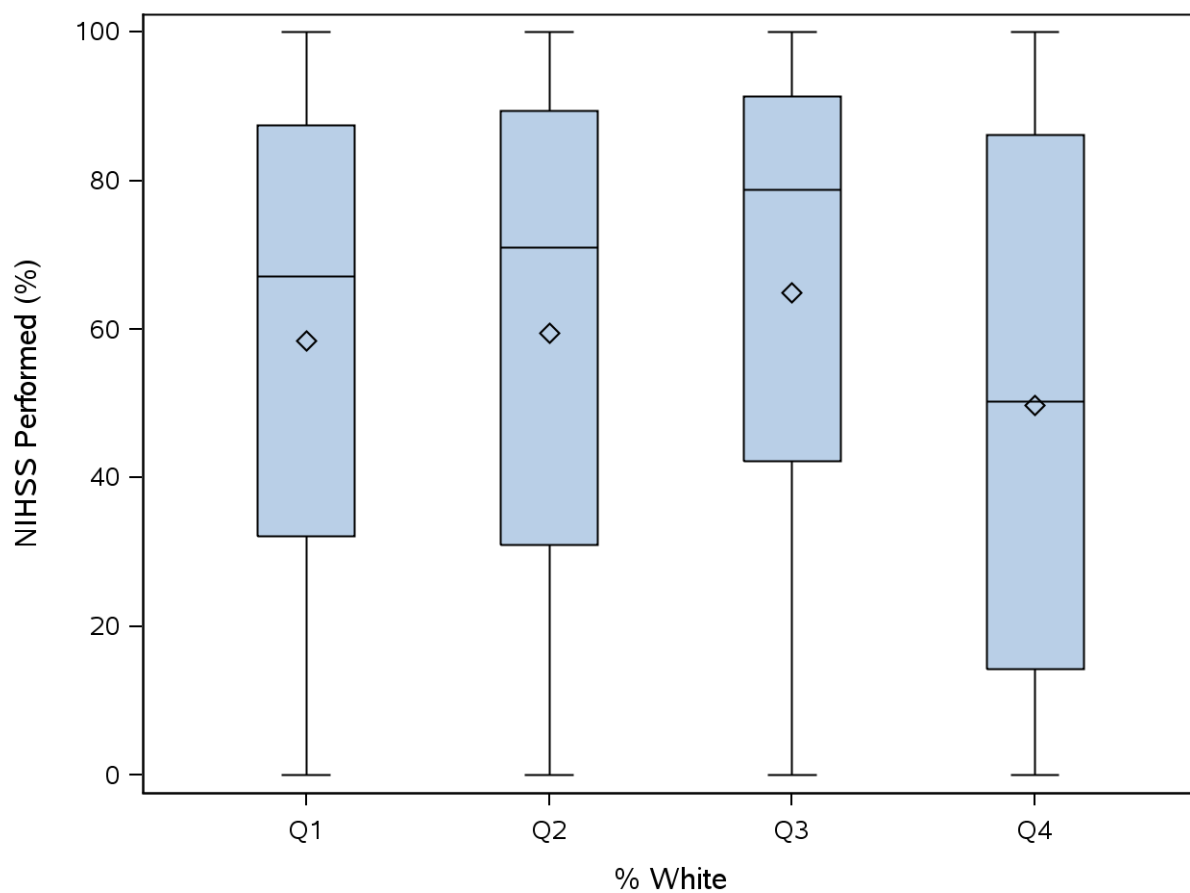
**Sample from 01/01/2011 to 12/31/2011**  
**Distribution of NIHSS Performed**  
**By Races**



**Sample from 01/01/2011 to 12/31/2011**  
**Distribution of NIHSS Performed**  
**By % White**

		% White (Hospital Quartiles of % White)							
		Q1 (0.00% to 57.97%)		Q2 (58.04% to 79.86%)		Q3 (79.87% to 92.26%)		Q4 (92.31% to 100.0%)	
Description	% White	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed
N	1535	383	383	384	384	383	383	385	385
Mean	72.02%	168.24	58.50%	202.58	59.57%	192.01	64.88%	110.10	49.75%
Std Deviation	25.59%	141.32	33.03%	143.04	33.15%	154.59	31.48%	121.89	35.86%
100% Max	100.0%	842	100.00%	812	100.00%	1188	100.00%	804	100.00%
99%	100.0%	621	100.00%	618	100.00%	742	100.00%	534	100.00%
95%	100.0%	455	98.28%	490	96.91%	496	97.64%	333	96.85%
90%	98.56%	367	95.62%	418	94.96%	373	95.73%	261	94.12%
75% Q3	92.31%	228	87.50%	271	89.35%	251	91.30%	165	86.18%
50% Median	79.87%	138	67.09%	172	70.98%	155	78.72%	69	50.39%
25% Q1	58.04%	67	32.05%	100	30.90%	90	42.13%	17	14.29%
10%	33.11%	18	6.97%	45	5.66%	40	11.88%	3	0.00%
5%	16.71%	6	0.00%	31	0.00%	24	0.65%	1	0.00%
1%	0.00%	1	0.00%	5	0.00%	6	0.00%	1	0.00%
0% Min	0.00%	1	0.00%	3	0.00%	5	0.00%	1	0.00%

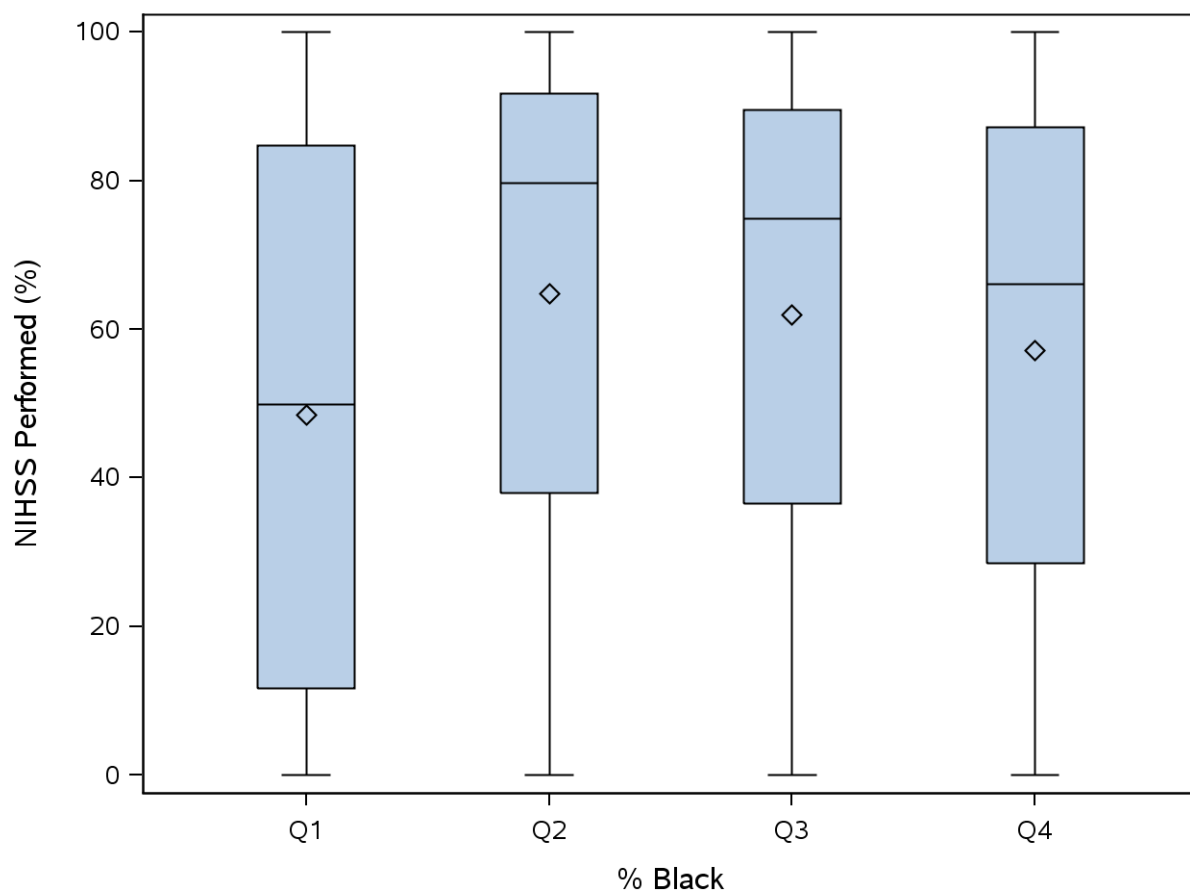
**Sample from 01/01/2011 to 12/31/2011**  
**Distribution of NIHSS Performed**  
**By % White**



**Sample from 01/01/2011 to 12/31/2011**  
**Distribution of NIHSS Performed**  
**By % Black**

		% Black (Hospital Quartiles of % Black)							
		Q1 (0.00% to 1.42%)		Q2 (1.43% to 7.20%)		Q3 (7.20% to 20.69%)		Q4 (20.73% to 100.0%)	
Description	% Black	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed
N	1535	383	383	385	385	383	383	384	384
Mean	14.88%	92.38	48.55%	185.18	64.87%	210.15	61.98%	184.88	57.23%
Std Deviation	19.12%	103.12	36.19%	130.03	31.64%	166.35	32.31%	145.00	32.83%
100% Max	100.0%	575	100.00%	804	100.00%	1188	100.00%	812	100.00%
99%	89.32%	488	100.00%	618	99.67%	842	99.53%	618	100.00%
95%	55.70%	287	97.87%	440	97.54%	550	96.69%	490	97.87%
90%	40.91%	230	94.29%	367	95.92%	431	94.69%	380	95.20%
75% Q3	20.73%	140	84.78%	249	91.67%	275	89.58%	256	87.17%
50% Median	7.20%	52	50.00%	156	79.63%	171	74.91%	154	66.12%
25% Q1	1.43%	11	11.59%	88	37.88%	100	36.55%	78	28.48%
10%	0.00%	3	0.00%	56	12.12%	39	6.00%	26	6.82%
5%	0.00%	1	0.00%	42	4.55%	24	0.00%	9	0.00%
1%	0.00%	1	0.00%	26	0.00%	9	0.00%	3	0.00%
0% Min	0.00%	1	0.00%	15	0.00%	5	0.00%	1	0.00%

**Sample from 01/01/2011 to 12/31/2011**  
**Distribution of NIHSS Performed**  
**By % Black**

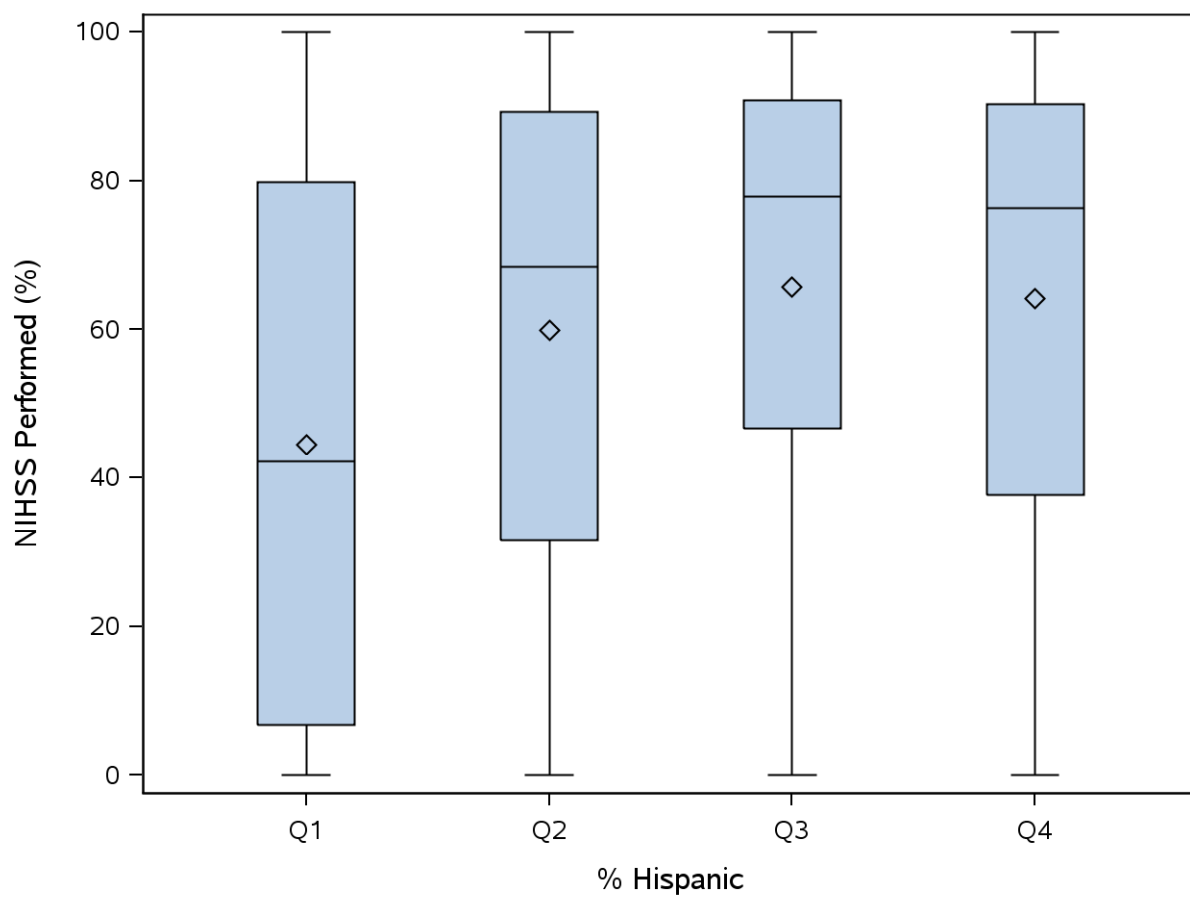




**Sample from 01/01/2011 to 12/31/2011**  
**Distribution of NIHSS Performed**  
**By % Hispanic**

		% Hispanic (Hospital Quartiles of % Hispanic)							
		Q1 (0.00% to 0.00%)		Q2 (0.18% to 1.83%)		Q3 (1.84% to 6.87%)		Q4 (6.94% to 100.0%)	
Description	% Hispanic	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed
N	1535	426	426	341	341	384	384	384	384
Mean	6.53%	80.28	44.53%	241.90	59.93%	186.75	65.72%	181.66	64.17%
Std Deviation	12.66%	99.70	36.22%	153.42	32.89%	134.99	29.80%	141.94	31.24%
100% Max	100.0%	659	100.00%	1188	100.00%	804	100.00%	842	100.00%
99%	66.09%	501	100.00%	742	99.04%	617	98.82%	722	100.00%
95%	29.90%	272	97.78%	526	96.86%	470	96.67%	455	98.38%
90%	17.71%	207	94.12%	436	95.20%	371	94.65%	374	96.34%
75% Q3	6.94%	122	79.77%	316	89.31%	248	90.82%	230	90.36%
50% Median	1.84%	41	42.16%	198	68.46%	162	77.84%	150	76.33%
25% Q1	0.00%	10	6.71%	131	31.64%	89	46.72%	87	37.69%
10%	0.00%	3	0.00%	90	6.54%	44	13.56%	40	12.73%
5%	0.00%	1	0.00%	74	2.99%	33	6.32%	25	1.22%
1%	0.00%	1	0.00%	59	0.00%	20	0.00%	7	0.00%
0% Min	0.00%	1	0.00%	55	0.00%	16	0.00%	2	0.00%

**Sample from 01/01/2011 to 12/31/2011**  
**Distribution of NIHSS Performed**  
**By % Hispanic**



**Sample from 01/01/2011 to 12/31/2011**  
**Distribution of NIHSS Performed**  
**By % Other**

		% Other (Hospital Quartiles of % Other Race)							
		Q1 (0.00% to 0.00%)		Q2 (0.16% to 2.10%)		Q3 (2.11% to 5.84%)		Q4 (5.88% to 100.0%)	
Description	% Other	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed	Volume	NIHSS Performed
N	1535	387	387	380	380	382	382	386	386
Mean	6.58%	63.07	47.79%	235.68	64.72%	197.23	60.36%	178.37	59.95%
Std Deviation	14.14%	68.74	36.57%	154.44	31.74%	133.91	31.37%	145.98	33.08%
100% Max	100.0%	373	100.00%	1188	100.00%	804	100.00%	812	100.00%
99%	82.14%	301	100.00%	842	99.35%	615	99.45%	647	100.00%
95%	26.79%	202	98.84%	536	98.01%	445	96.13%	490	97.30%
90%	15.88%	155	95.40%	458	95.46%	388	94.56%	367	95.80%
75% Q3	5.88%	93	83.53%	289	91.08%	268	87.50%	239	89.80%
50% Median	2.11%	39	50.00%	195	79.47%	165	68.71%	141	70.11%
25% Q1	0.00%	10	9.38%	135	37.20%	97	33.91%	72	33.33%
10%	0.00%	3	0.00%	98	10.77%	56	8.00%	28	4.35%
5%	0.00%	1	0.00%	63	4.64%	40	0.32%	11	0.00%
1%	0.00%	1	0.00%	50	0.00%	25	0.00%	2	0.00%
0% Min	0.00%	1	0.00%	48	0.00%	18	0.00%	1	0.00%

**Sample from 01/01/2011 to 12/31/2011**  
**Distribution of NIHSS Performed**  
**By % Other**

