

TABLE e1

Table e-1. Demographic and clinical characteristics.

NEDS 2010				
		Principal diagnosis SE (N=26,885 2.4%)	Secondary diagnosis SE (N=14,716 1.3%)	Non-SE seizures (N=1,064,106 96.2%)
Age in years	Median (p ₂₅ -p ₇₅)	36 (10-56)	55 (36-69)	34 (19-50)
Age categories	<1 year	788 (2.9%)	296 (2%)	20,423 (1.9%)
	1-5 years	4,246 (15.8%)	717 (4.9%)	130,618 (12.3%)
	6-12 years	2,249 (8.4%)	350 (2.4%)	48,298 (4.5%)
	13-20 years	1,815 (6.8%)	612 (4.2%)	94,204 (8.9%)
	21-35 years	4,197 (15.6%)	1,681 (11.4%)	263,264 (24.7%)
	36-50 years	4,860 (18.1%)	2,565 (17.4%)	250,402 (23.5%)
	51-65 years	4,983 (18.6%)	3,887 (26.4%)	161,106 (15.1%)
	66-89 years	3,472 (12.9%)	4,371 (29.7%)	88,745 (8.3%)
	>89 years	239 (0.9%)	233 (1.6%)	6,753 (0.6%)
Sex	Male	14,337 (53.3%)	7,535 (51.2%)	574,281 (54%)
	Female	12,544 (46.7%)	7,181 (48.8%)	489,730 (46%)
Socioeconomic status	High	4,660 (17.8%)	2,606 (18.2%)	159,657 (15.4%)
	Medium-high	5,850 (22.4%)	3,188 (22.3%)	216,652 (21%)
	Medium-low	6,836 (26.1%)	3,912 (27.4%)	279,698 (27.1%)
	Low	8,802 (33.7%)	4,598 (32.1%)	377,656 (36.5%)
Primary payer	Medicaid	8,924 (33.3%)	3,633 (24.7%)	333,336 (31.4%)
	Medicare	7,647 (28.5%)	6,733 (45.8%)	222,868 (21%)
	No charge	136 (0.5%)	27 (0.2%)	9,212 (0.9%)
	Other	1,299 (4.8%)	502 (3.4%)	44,237 (4.2%)
	Private insurance	6,769 (25.2%)	2,967 (20.2%)	273,174 (25.8%)
	Self-pay	2,054 (7.7%)	830 (5.7%)	177,779 (16.8%)
Admission	Weekday	19,133 (71.2%)	10,675 (72.6%)	772,559 (72.8%)
	Weekend	7,733 (28.8%)	4,037 (27.4%)	288,713 (27.2%)
Hospital region	Northeast	4,598 (17.1%)	2,470 (16.8%)	185,423 (17.4%)
	Midwest	5,666 (21.1%)	2,960 (20.1%)	230,826 (21.7%)
	South	10,471 (39%)	6,156 (41.8%)	432,937 (40.7%)
	West	6,150 (22.9%)	3,130 (21.3%)	214,920 (20.2%)

Hospital teaching status	Cases in a metropolitan teaching hospital	12,332 (45.9%)	7,916 (53.8%)	478,060 (44.9%)
	Cases in a metropolitan non-teaching hospital	10,446 (38.9%)	5,545 (37.7%)	414,260 (38.9%)
	Cases in a non-metropolitan hospital	4,107 (15.3%)	1,255 (8.5%)	171,786 (16.1%)
Intubated in the emergency department		639 (2.4%)	96 (0.7%)	794 (0.08%)
Intubated as inpatient		5,926 (22%)	8,333 (56.6%)	6,484 (0.6%)
Mechanical ventilation less than 96 hours		4,654 (17.3%)	4,737 (32.2%)	5,373 (0.5%)
Mechanical ventilation more than 96 hours		1,227 (4.6%)	3,606 (24.5%)	1,009 (0.1%)
Routine EEG		788 (2.9%)	740 (5%)	8,728 (0.8%)
EEG monitoring		605 (2.3%)	477 (3.2%)	6,262 (0.6%)
Head CT in the emergency department		203 (0.8%)	37 (0.3%)	17,454 (1.6%)
Head CT as inpatient		673 (2.5%)	505 (3.4%)	7,122 (0.7%)
Brain MRI		617 (2.3%)	552 (3.8%)	8,531 (0.8%)
Lumbar puncture in the emergency department		147 (0.6%)	19 (0.1%)	2634 (0.3%)
Lumbar puncture as inpatient		2,240 (8.3%)	1,908 (13%)	10,821 (1%)

NEDS 2011				
		Principal diagnosis SE (N=29,160 2.7%)	Secondary diagnosis SE (N=15,725 1.4%)	Non-SE seizures (N=1,055,127 95.9%)
Age in years	Median (p₂₅- p₇₅)	34 (8-55)	54 (34-68)	33 (17-50)
Age categories	<1 year	951 (3.3%)	368 (2.4%)	21,392 (2%)
	1-5 years	5,000 (17.2%)	880 (5.6%)	142,368 (13.5%)
	6-12 years	2,535 (8.7%)	478 (3.1%)	53,501 (5.1%)
	13-20 years	1,900 (6.5%)	637 (4.1%)	94,154 (8.9%)
	21-35 years	4,510 (15.5%)	1,730 (11%)	256,595 (24.3%)
	36-50 years	5,064 (17.4%)	2,658 (16.9%)	233,520 (22.1%)
	51-65 years	5,155 (17.7%)	4,347 (27.7%)	159,984 (15.2%)
	66-89 years	3,796 (13%)	4,290 (27.3%)	87,312 (8.3%)
	>89 years	200 (0.7%)	302 (1.9%)	6,166 (0.6%)
Sex	Male	15,213 (52.2%)	7,821 (49.7%)	564,397 (53.5%)
	Female	13,947 (47.8%)	7,904 (50.3%)	490,527 (46.5%)
Socioeconomic status	High	5,034 (17.8%)	3,143 (20.6%)	173,616 (16.8%)
	Medium-high	6,851 (24.2%)	3,815 (25%)	239,955 (23.3%)
	Medium-low	7,165 (25.3%)	3,725 (24.4%)	265,202 (25.7%)
	Low	9,265 (32.7%)	4,591 (30.1%)	351,623 (34.1%)
Primary payer	Medicaid	10,533 (36.1%)	3,883 (24.7%)	348,021 (33.1%)
	Medicare	8,199 (28.1%)	6,968 (44.4%)	223,789 (21.3%)
	No charge	158 (0.5%)	63 (0.4%)	8,772 (0.8%)
	Other	1,201 (4.1%)	570 (3.6%)	43,295 (4.1%)
	Private insurance	7,120 (24.4%)	3,334 (21.2%)	267,540 (25.4%)
	Self-pay	1,936 (6.6%)	891 (5.7%)	160,627 (15.3%)
Admission	Weekday	20,961 (71.9%)	11,333 (72.1%)	765,802 (72.6%)
	Weekend	8,199 (28.1%)	4,392 (27.9%)	289,266 (27.4%)
Hospital region	Northeast	5,263 (18.1%)	2,836 (18%)	183,233 (17.4%)
	Midwest	6,034 (20.7%)	3,229 (20.5%)	234,929 (22.3%)
	South	12,240 (42%)	6,653 (42.3%)	433,820 (41.1%)
	West	5,622 (19.3%)	3,007 (19.1%)	203,145 (19.3%)
Hospital teaching status	Cases in a metropolitan teaching hospital	14,353 (49.2%)	8,410 (53.5%)	465,607 (44.1%)

	Cases in a metropolitan non-teaching hospital	10,788 (37%)	6,103 (38.8%)	420,565 (39.9%)
	Cases in a non-metropolitan hospital	4,019 (13.8%)	1,212 (7.7%)	168,955 (16%)
Intubated in the emergency department		761 (2.6%)	125 (0.8%)	787 (0.08%)
Intubated as inpatient		6,274 (21.5%)	8,753 (55.7%)	6,419 (0.6%)
Ventilation less than 96 hours		5,160 (17.7%)	4,897 (31.1%)	5,415 (0.5%)
Ventilation more than 96 hours		1,071 (3.7%)	3,871 (24.6%)	852 (0.08%)
Routine EEG		1,309 (4.5%)	786 (5%)	10,749 (1%)
EEG monitoring		1,444 (5%)	905 (5.8%)	9,327 (0.9%)
Head CT in the emergency department		140 (0.5%)	20 (0.1%)	13,422 (1.3%)
Head CT as inpatient		1,041 (3.6%)	589 (3.7%)	7,834 (0.7%)
Brain MRI		802 (2.8%)	508 (3.2%)	8,598 (0.8%)
Lumbar puncture in the emergency department		150 (0.5%)	#	2,106 (0.2%)
Lumbar puncture as inpatient		2,677 (9.2%)	2,303 (14.6%)	11,062 (1.1%)
NEDS 2012				
		Principal diagnosis SE (N=29,928	Secondary diagnosis SE (N=15,419	Non-SE seizures (N=1,070,050 95.9%)

		2.7%)	1.4%)	
Age in years	Median (p₂₅-p₇₅)	36 (10-57)	55 (35-68)	33 (18-50)
Age categories	<1 year	979 (3.3%)	381 (2.5%)	21,826 (2%)
	1-5 years	4,668 (15.6%)	829 (5.4%)	137,556 (12.9%)
	6-12 years	2,647 (8.9%)	406 (2.6%)	52,049 (4.9%)
	13-20 years	2,095 (7%)	430 (2.8%)	94,601 (8.8%)
	21-35 years	4,396 (14.7%)	1,807 (11.7%)	267,355 (25%)
	36-50 years	4,948 (16.5%)	2,627 (17%)	235,977 (22.1%)
	51-65 years	5,787 (19.3%)	4,479 (29.1%)	166,749 (15.6%)
	66-89 years	4,147 (13.9%)	4,213 (27.3%)	87,261 (8.2%)
	>89 years	242 (0.8%)	238 (1.5%)	6,523 (0.6%)
Sex	Male	16,637 (55.6%)	7,983 (51.8%)	572,268 (53.5%)
	Female	13,291 (44.4%)	7,436 (48.2%)	497,697 (46.5%)
Socioeconomic status	High	5,408 (18.5%)	2,743 (18.2%)	162,310 (15.5%)
	Medium-high	6,585 (22.5%)	3,420 (22.7%)	227,439 (21.8%)
	Medium-low	7,180 (24.5%)	3,840 (25.5%)	268,281 (25.7%)
	Low	10,128 (34.6%)	5,051 (33.6%)	387,240 (37%)
Primary payer	Medicaid	10,545 (35.3%)	3,814 (24.8%)	359,627 (33.7%)
	Medicare	8,798 (29.4%)	6,776 (44%)	228,714 (21.4%)
	No charge	147 (0.5%)	91 (0.6%)	7,510 (0.7%)
	Other	1,290 (4.3%)	546 (3.5%)	46,507 (4.4%)
	Private insurance	6,910 (23.1%)	2,966 (19.3%)	252,037 (23.6%)
	Self-pay	2,194 (7.3%)	1,209 (7.9%)	173,779 (16.3%)
Admission	Weekday	21,170 (70.7%)	11,134 (72.2%)	778,675 (72.8%)
	Weekend	8,758 (29.3%)	4,284 (27.8%)	291,374 (27.2%)
Hospital region	Northeast	5,158 (17.2%)	2,960 (19.2%)	181,380 (17%)
	Midwest	6,066 (20.3%)	3,104 (20.1%)	234,607 (21.9%)
	South	11,841 (39.6%)	6,743 (43.7%)	443,369 (41.4%)
	West	6,863 (22.9%)	2,611 (16.9%)	210,694 (19.7%)
Hospital teaching status	Cases in a metropolitan teaching hospital	15,583 (52.1%)	8,843 (57.4%)	510,177 (47.7%)
	Cases in a metropolitan non-teaching hospital	10,259 (34.3%)	5,312 (34.5%)	393,323 (36.8%)
	Cases in a non-	4,085 (13.7%)	1,263 (8.2%)	166,550 (15.6%)

	metropolitan hospital			
Intubated in the emergency department		735 (2.5%)	126 (0.8%)	655 (0.06%)
Intubated as inpatient		6,785 (22.7%)	8,416 (54.6%)	6,675 (0.6%)
Ventilation less than 96 hours		5,490 (18.3%)	4,466 (29%)	5,552 (0.5%)
Ventilation more than 96 hours		1,244 (4.2%)	3,888 (25.2%)	910 (0.09%)
Routine EEG		1,168 (3.9%)	583 (3.8%)	8,901 (0.8%)
EEG monitoring		1,061 (3.6%)	592 (3.8%)	9,829 (0.9%)
Head CT in the emergency department		260 (0.9%)	37 (0.2%)	16,520 (1.5%)
Head CT as inpatient		692 (2.3%)	332 (2.2%)	7,128 (0.7%)
Brain MRI		537 (1.8%)	343 (2.2%)	6,396 (0.6%)
Lumbar puncture in the emergency department		137 (0.5%)	#	1,635 (0.2%)
Lumbar puncture as inpatient		1,543 (5.2%)	893 (5.8%)	9,460 (0.9%)
NEDS 2013				
		Principal diagnosis SE (N=31,218 2.8%)	Secondary diagnosis SE (N=18,061 1.6%)	Non-SE seizures (N=1,067,778 95.6%)
Age in years	Median (p₂₅- p₇₅)	38 (14-58)	57 (38-70)	34 (19-51)

Age categories	<1 year	813 (2.6%)	452 (2.5%)	20,426 (1.9%)
	1-5 years	4,211 (13.5%)	682 (3.8%)	130,425 (12.2%)
	6-12 years	2,487 (8%)	427 (2.4%)	48,821 (4.6%)
	13-20 years	1,911 (6.1%)	608 (3.4%)	92,221 (8.6%)
	21-35 years	5,253 (16.8%)	2,120 (11.7%)	273,729 (25.6%)
	36-50 years	5,448 (17.5%)	2,815 (15.6%)	231,615 (21.7%)
	51-65 years	6,288 (20.2%)	5,135 (28.5%)	171,747 (16.1%)
	66-89 years	4,540 (14.6%)	5,476 (30.3%)	92,005 (8.6%)
	>89 years	251 (0.8%)	330 (1.8%)	6,653 (0.6%)
Sex	Male	16,697 (53.5%)	9,282 (51.4%)	570,867 (53.5%)
	Female	14,521 (46.5%)	8,780 (48.6%)	496,885 (46.5%)
Socioeconomic status	High	5,308 (17.5%)	3,415 (19.5%)	152,356 (14.7%)
	Medium-high	6,575 (21.6%)	3,742 (21.4%)	222,319 (21.4%)
	Medium-low	7,726 (25.4%)	4,457 (25.5%)	282,151 (27.2%)
	Low	10,782 (35.5%)	5,854 (33.5%)	381,982 (36.8%)
Primary payer	Medicaid	10,788 (34.6%)	4,343 (24.1%)	359,843 (33.8%)
	Medicare	9,368 (30%)	8,561 (47.4%)	232,311 (21.8%)
	No charge	178 (0.6%)	120 (0.7%)	11,640 (1.1%)
	Other	1,372 (4.4%)	643 (3.6%)	43,764 (4.1%)
	Private insurance	6,963 (22.3%)	3,163 (17.5%)	247,971 (23.3%)
	Self-pay	2,506 (8%)	1,212 (6.7%)	169,954 (16%)
Admission	Weekday	22,293 (71.4%)	12,839 (71.1%)	777,823 (72.8%)
	Weekend	8,925 (28.6%)	5,222 (28.9%)	289,951 (27.2%)
Hospital region	Northeast	5,825 (18.7%)	3,197 (17.7%)	190,279 (17.8%)
	Midwest	6,397 (20.5%)	3,892 (21.5%)	227,778 (21.3%)
	South	11,726 (37.6%)	7,452 (41.3%)	433,621 (40.6%)
	West	7,270 (23.3%)	3,521 (19.5%)	216,101 (20.2%)
Hospital teaching status	Cases in a metropolitan teaching hospital	16,005 (51.3%)	10,395 (57.6%)	502,536 (47.1%)
	Cases in a metropolitan non-teaching hospital	10,673 (34.2%)	6,277 (34.8%)	393,178 (36.8%)
	Cases in a non-metropolitan hospital	4,541 (14.5%)	1,389 (7.7%)	172,064 (16.1%)

Intubated in the emergency department		786 (2.5%)	151 (0.8%)	649 (0.06%)
Intubated as inpatient		7,261 (23.3%)	9,953 (55.1%)	7,039 (0.7%)
Ventilation less than 96 hours		5,754 (18.4%)	5,346 (29.6%)	5,908 (0.6%)
Ventilation more than 96 hours		1,328 (4.3%)	4,467 (24.7%)	934 (0.09%)
Routine EEG		1,296 (4.2%)	790 (4.4%)	10,642 (1%)
EEG monitoring		1,371 (4.4%)	975 (5.4%)	9,551 (0.9%)
Head CT in the emergency department		205 (0.7%)	22 (0.1%)	12,654 (1.2%)
Head CT as inpatient		645 (2.1%)	444 (2.5%)	6,453 (0.6%)
Brain MRI		700 (2.2%)	446 (2.5%)	7,560 (0.7%)
Lumbar puncture in the emergency department		126 (0.4%)	#	1,309 (0.1%)
Lumbar puncture as inpatient		1,691 (5.4%)	1,174 (6.5%)	8,586 (0.8%)
NEDS 2014				
		Principal diagnosis SE (N=32,559 2.8%)	Secondary diagnosis SE (N=19,538 1.7%)	Non-SE seizures (N=1,102,042 95.5%)
Age in years	Median (p₂₅-p₇₅)	37 (13-58)	56 (37-69)	33 (19-51)
Age categories	<1 year	918 (2.8%)	461 (2.4%)	21,212 (1.9%)
	1-5 years	4,440 (13.6%)	966 (5%)	132,590 (12%)
	6-12 years	2,569 (7.9%)	455 (2.3%)	53,675 (4.9%)

	13-20 years	2,198 (6.8%)	613 (3.1%)	99,363 (9%)
	21-35 years	5,577 (17.1%)	2,200 (11.3%)	282,493 (25.6%)
	36-50 years	5,231 (16.1%)	2,973 (15.2%)	233,557 (21.2%)
	51-65 years	6,325 (19.4%)	5,730 (29.3%)	179,041 (16.2%)
	66-89 years	4,959 (15.2%)	5,789 (29.6%)	93,720 (8.5%)
	>89 years	311 (1%)	340 (1.7%)	6,279 (0.6%)
Sex	Male	17,565 (53.9%)	10,455 (53.5%)	588,767 (53.4%)
	Female	14,993 (46.1%)	9,083 (46.5%)	513,207 (46.6%)
Socioeconomic status	High	5,364 (16.9%)	3,361 (17.8%)	157,362 (14.6%)
	Medium-high	6,441 (20.3%)	3,815 (20.2%)	206,307 (19.2%)
	Medium-low	8,813 (27.8%)	5,176 (27.4%)	301,012 (28%)
	Low	11,043 (34.9%)	6,568 (34.7%)	411,017 (38.2%)
Primary payer	Medicaid	12,067 (37.1%)	5,296 (27.1%)	415,173 (37.7%)
	Medicare	9,779 (30.1%)	8,978 (46%)	236,792 (21.5%)
	No charge	158 (0.5%)	104 (0.5%)	6,796 (0.6%)
	Other	1,572 (4.8%)	571 (2.9%)	42,237 (3.8%)
	Private insurance	7,206 (22.2%)	3,572 (18.3%)	259,701 (23.6%)
	Self-pay	1,731 (5.3%)	999 (5.1%)	139,654 (12.7%)
Admission	Weekday	23,351 (71.7%)	14,277 (73.1%)	804,106 (73%)
	Weekend	9,207 (28.3%)	5,261 (26.9%)	297,920 (27%)
Hospital region	Northeast	5,858 (18%)	3,857 (19.7%)	190,753 (17.3%)
	Midwest	6,322 (19.4%)	3,708 (19%)	233,850 (21.2%)
	South	12,490 (38.4%)	8,153 (41.7%)	449,492 (40.8%)
	West	7,888 (24.2%)	3,820 (19.6%)	227,948 (20.7%)
Hospital teaching status	Cases in a metropolitan teaching hospital	19,942 (61.3%)	13,208 (67.6%)	638,966 (58%)
	Cases in a metropolitan non-teaching hospital	8,812 (27.1%)	4,879 (25%)	305,890 (27.8%)
	Cases in a non-metropolitan hospital	3,804 (11.7%)	1,451 (7.4%)	157,187 (14.3%)
Intubated in the emergency department		#	#	#

Intubated as inpatient		8,055 (24.7%)	11,258 (57.6%)	7,322 (0.7%)
Ventilation less than 96 hours		6,501 (20%)	6,114 (31.3%)	6,150 (0.6%)
Ventilation more than 96 hours		1,340 (4.1%)	5,154 (26.4%)	972 (0.09%)
Routine EEG		1,461 (4.5%)	1,366 (7%)	11,117 (1%)
EEG monitoring		1,565 (4.8%)	1,165 (6%)	10,485 (1%)
Head CT in the emergency department		#	#	#
Head CT as inpatient		1,046 (3.2%)	752 (3.9%)	8,109 (0.7%)
Brain MRI		824 (2.5%)	598 (3.1%)	6,505 (0.6%)
Lumbar puncture in the emergency department		#	#	#
Lumbar puncture as inpatient		2,124 (6.5%)	1,864 (9.5%)	7,790 (0.7%)

Legend: **CT:** Computerized tomography. **EEG:** Electroencephalogram. **MRI:** Magnetic resonance imaging. **p₂₅-p₇₅:** 25th-75th percentiles. **SE:** Status epilepticus. **#:** Number too small to display due to confidentiality issues.