



Accreditation Council for Graduate Medical Education

Neurological Surgery Case Logs

National Data Report

Prepared by: Department of Applications and Data Analysis

I. National Resident Statistics Main Table

- A. This main table provides a national picture of educational experiences. The report is ideal for establishing and assessing national policy related to resident practical experiences.
- B. Descriptive statistics have been carefully chosen to provide the most useful information for judging performance at that national level.
 - i. "Natl Res AVE" - The national average describes the mean number of procedures performed per resident in the nation.
 - ii. "Natl Res STD" - The national standard deviation indicates how tightly the procedure counts are clustered around the national mean.
 - iii. "Natl Res MED" - The median value among procedure counts in the nation.
 - iv. "Natl Res MIN" - The minimum value among procedure counts in the nation.
 - v. "Natl Res MAX" - The maximum value seen among procedure counts in the nation.

II. National Benchmark Table for Resident Statistics

The table displays selected percentile benchmarks of program averages. For example, a score at the 10th percentile indicates that 10% of residents achieved less than the value while the remaining 90% achieved more than the value.

The information on the following pages has been created using specialty specific categories. These data should not be used for comparison across specialties as the definition of the categories will vary among the specialties. In addition, care should be exercised when comparing data from year to year as the definition of certain categories may be revised from time to time.

NEUROLOGICAL SURGERY : NATIONAL RESIDENT REPORT (Main Table)
Reporting Period: Total Experience of Residents Completing Programs in 2016-2017
Residency Review Committee for Neurological Surgery
Report Date: August 11, 2017

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Number of Programs in the Nation: 97 Number of Residents in the Nation: 186

		Senior Resident Surgeon					Lead Resident Surgeon					Assistant Resident Surgeon					Senior + Lead Surgeon				
		Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res MIN	Natl Res MAX
RRC Area	RRC Procedure																				
Adult Craniotomy - Brain Tumor	Biopsy	2.8	3	2	0	19	7.8	7	6	0	35	0.2	1	0	0	6	10.6	8	8	0	39
	Intra-axial	27.6	22	21	0	120	52.1	34	47	0	188	1.8	4	0	0	27	79.7	35	75	26	239
	Extra-axial	11.5	9	9	0	44	22.9	15	21	0	125	0.8	1	0	0	9	34.4	16	32	3	134
	Skull base and other	14.2	12	10	0	66	27.6	23	24	0	178	0.9	2	0	0	11	41.8	24	39	9	212
	TOTAL - Ad Craniotomy - Brain Tum	56.0	40	45	0	186	110.4	65	109	0	425	3.7	6	1	0	35	166.4	63	161	60	432
Adult Craniotomy - Trauma	Cranioplasty	8.6	7	7	0	39	11.3	8	10	0	42	0.3	2	0	0	20	19.9	10	18	1	56
	Depressed skull fract or extra-ax	24.4	18	19	0	87	34.0	24	29	0	119	1.5	4	0	0	32	58.4	31	51	10	171
	Craniect for abscess, contusn, or	9.4	7	8	0	37	16.2	12	14	0	62	0.6	1	0	0	10	25.6	13	23	2	75
	Other (adult craniotomy - trauma)	8.5	7	7	0	45	12.7	14	10	0	121	0.3	1	0	0	15	21.2	18	18	1	151
	TOTAL - Ad Craniotomy - Trauma	50.9	32	44	0	151	74.2	46	70	0	230	2.7	7	0	0	73	125.1	54	118	40	331
Adult Craniotomy-Intracran Vasc	AVM (adult craniotomy)	4.9	5	3	0	30	7.5	6	6	0	38	0.2	1	0	0	4	12.4	7	11	0	43
	Aneurysm (adult craniotomy)	13.4	10	12	0	77	19.9	15	16	0	74	0.9	2	0	0	14	33.3	17	29	5	96
	Other (adult craniotomy)	1.7	3	1	0	32	3.1	4	2	0	34	0.1	0	0	0	4	4.8	5	4	0	34
	TOTAL - Adult Craniotomy for IVL	20.0	15	18	0	107	30.5	20	28	1	105	1.2	3	0	0	16	50.5	21	47	13	129
Endovasc Therp Tumor or Vasc	AVM (endovasc therapy)	2.9	6	1	0	40	4.0	12	1	0	125	0.1	1	0	0	5	6.8	14	3	0	127
	Aneurysm (endovasc therapy)	7.1	14	3	0	106	10.4	26	3	0	222	0.3	1	0	0	6	17.4	33	8	0	292
	Tumor embo, thrombectomy, or stent	6.7	14	3	0	131	9.1	25	2	0	217	0.2	1	0	0	4	15.7	31	7	0	237
	TOTAL - Endovasc Therp Tum or	16.6	30	8	0	235	23.4	57	8	0	403	0.6	2	0	0	11	40.0	71	20	0	447
Adult Craniotomy - Pain	Pain (adult craniotomy)	10.2	9	7	0	43	19.5	13	16	0	62	0.6	1	0	0	7	29.7	15	26	5	79
	TOTAL - Adult Craniotomy - Pain	10.2	9	7	0	43	19.5	13	16	0	62	0.6	1	0	0	7	29.7	15	26	5	79

Statistics are based upon the numbers of primary credit procedures logged by residents in the indicated role.

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Residency Review Committee for Neurological Surgery
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		Senior Resident Surgeon					Lead Resident Surgeon					Assistant Resident Surgeon					Senior + Lead Surgeon				
		Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res MIN	Natl Res MAX
RRC Area	RRC Procedure																				
Adult	Transphen-sel/parasel tumors	12.3	11	10	0	65	23.7	18	19	0	123	0.5	1	0	0	8	36.0	19	32	15	150
	TOTAL - Transphen-Sell/Parasellar	12.3	11	10	0	65	23.7	18	19	0	123	0.5	1	0	0	8	36.0	19	32	15	150
Adult - Cranial-Extracran Vasc	Bypass, CEA, Ligation	3.8	4	3	0	19	6.8	7	5	0	48	0.3	1	0	0	7	10.7	7	8	1	50
	TOTAL - Extracran Vascular Procs	3.8	4	3	0	19	6.8	7	5	0	48	0.3	1	0	0	7	10.7	7	8	1	50
Adult - Radiosurgery	Radiosurgery	8.9	16	5	0	123	12.3	19	9	0	111	0.4	2	0	0	31	21.2	26	12	10	182
	TOTAL - Radiosurgery	8.9	16	5	0	123	12.3	19	9	0	111	0.4	2	0	0	31	21.2	26	12	10	182
Adult Functional Procedures	Vagal nerve stimulation	3.1	4	2	0	32	5.4	7	3	0	57	0.1	0	0	0	2	8.5	9	6	0	72
	Stimulation for pain	7.5	9	5	0	60	10.5	15	5	0	90	0.4	2	0	0	19	18.0	18	12	0	104
	DBS or lesioning	13.2	15	8	0	90	17.8	20	12	0	127	0.2	1	0	0	6	31.0	24	26	0	130
	Cordotomy/rhizotomy	0.6	2	0	0	24	1.0	3	0	0	24	0.1	1	0	0	16	1.7	4	0	0	44
	Sympathectomy	0.1	1	0	0	7	0.2	1	0	0	6	0.0	0	0	0	0	0.3	1	0	0	12
	Intrathecal & implantable pumps	7.2	9	4	0	79	9.1	10	6	0	59	0.2	1	0	0	5	16.2	14	13	0	82
	Other (adult functional proc)	8.2	10	4	0	42	10.5	15	6	0	89	0.3	1	0	0	9	18.8	18	14	0	110
	TOTAL - Functional Procedures	39.9	37	29	0	256	54.5	50	40	1	288	1.3	4	0	0	31	94.5	58	81	10	297
Adult VP Shunt (CSF Diversn)	VPS	28.2	19	24	0	96	37.3	25	33	0	137	1.0	2	0	0	11	65.5	30	60	14	169
	ETV	1.6	2	1	0	13	2.8	3	2	0	16	0.1	0	0	0	2	4.4	4	4	0	16
	Other CSF diversion	5.0	5	4	0	48	6.8	8	5	0	59	0.2	1	0	0	5	11.8	10	9	0	68
	TOTAL - VP Shunt	34.8	23	30	0	144	46.9	30	42	2	154	1.3	3	0	0	14	81.7	35	75	15	212
TOTAL - Adult Cranial	TOTAL - Adult Cranial	253.5	143	237	0	774	402.3	202	406	13	898	12.7	21	4	0	125	655.8	187	644	229	1,244

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RRC Area	RRC Procedure																				
Adt Spinal - ACD with Instrumentn	Antr cervical appr for	28.0	27	20	0	182	54.7	34	51	2	172	1.6	3	0	0	20	82.7	41	78	25	305
	TOTAL - ACD	28.0	27	20	0	182	54.7	34	51	2	172	1.6	3	0	0	20	82.7	41	78	25	305
Adt Spin - C-spin Fract Op Stabiliz	Postr cervical appr for	23.1	21	16	0	132	43.4	24	42	0	131	1.2	3	0	0	14	66.5	28	64	15	214
	TOTAL - C-spine Fract Op Stabil	23.1	21	16	0	132	43.4	24	42	0	131	1.2	3	0	0	14	66.5	28	64	15	214
Adult Spinal - Lumbar Discectomy	Lumbar discectomy	49.2	46	37	0	317	82.0	52	71	1	330	2.3	6	0	0	39	131.2	65	121	33	471
	TOTAL - Lumbar Discectomy	49.2	46	37	0	317	82.0	52	71	1	330	2.3	6	0	0	39	131.2	65	121	33	471
Adult Spinal - Thorac/Lumb	Thoracic/lumbar	57.0	54	40	0	278	97.1	62	90	0	437	3.1	8	0	0	76	154.0	83	136	20	715
	TOTAL - Thorac/Lumb	57.0	54	40	0	278	97.1	62	90	0	437	3.1	8	0	0	76	154.0	83	136	20	715
Adult Spinal - Peripheral Nerve	Neurolysis/transposition	0.3	1	0	0	4	0.5	1	0	0	10	0.0	0	0	0	1	0.8	1	0	0	10
	Nerve repair	6.9	9	3	0	63	9.2	9	6	0	54	0.4	1	0	0	11	16.1	14	12	1	75
	Peripheral nerve tumor	1.0	2	0	0	15	1.8	2	1	0	15	0.0	0	0	0	1	2.8	3	2	0	16
	Other (peripheral nerve procs)	3.1	4	2	0	21	3.7	4	3	0	19	0.1	0	0	0	3	6.8	5	6	0	24
	TOTAL - Peripheral Nerve Procs	11.3	12	7	0	81	15.2	12	12	0	58	0.5	2	0	0	13	26.5	16	23	10	98
TOTAL - Adult Spinal	TOTAL - Adult Spinal	168.5	138	121	0	760	292.3	151	283	3	748	8.7	19	1	0	119	460.8	177	432	113	1,344

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		Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res MIN	Natl Res MAX
RRC Area	RRC Procedure																				
Pediatric Craniotomy - Brain Tumor	Craniotomy - brain tumor (ped)	5.9	6	4	0	32	12.0	10	9	0	54	0.4	2	0	0	16	17.9	10	16	5	86
	TOTAL - Ped Craniotomy - Brain	5.9	6	4	0	32	12.0	10	9	0	54	0.4	2	0	0	16	17.9	10	16	5	86
Pediatric Craniotomy for Trauma	Craniotomy for trauma (ped)	6.2	7	4	0	45	10.3	7	9	0	39	0.4	1	0	0	10	16.5	8	14	1	59
	TOTAL - Ped Craniotomy for	6.2	7	4	0	45	10.3	7	9	0	39	0.4	1	0	0	10	16.5	8	14	1	59
Pediatric Spinal Procedures	Spinal procedures (ped)	5.5	6	3	0	47	9.8	8	8	0	46	0.3	1	0	0	12	15.3	9	13	4	51
	TOTAL - Ped Spinal Procedures	5.5	6	3	0	47	9.8	8	8	0	46	0.3	1	0	0	12	15.3	9	13	4	51
Pediatric VP Shunt	VP shunt (ped)	17.0	20	9	0	116	28.1	22	23	0	107	1.0	4	0	0	27	45.0	26	39	10	123
	TOTAL - Ped VP Shunt	17.0	20	9	0	116	28.1	22	23	0	107	1.0	4	0	0	27	45.0	26	39	10	123
TOTAL - Pediatric	TOTAL - Pediatric	34.5	36	24	0	202	60.2	40	53	1	195	2.2	7	0	0	50	94.8	43	87	25	281
Craniotomy for Epilepsy (Adult and	Craniotomy for epilepsy	9.4	9	7	0	47	13.3	10	11	0	54	0.3	1	0	0	7	22.7	13	19	10	81
	TOTAL - Epilepsy	9.4	9	7	0	47	13.3	10	11	0	54	0.3	1	0	0	7	22.7	13	19	10	81

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		Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res MIN	Natl Res MAX
RRC Area	RRC Procedure																				
Minor Procedures/Critical Care	ICP monitor placement	16.2	18	10	0	80	7.7	8	5	0	54	0.2	1	0	0	12	23.8	20	17	3	128
	Ext ventricular drain placmnt	15.3	17	11	0	102	23.1	23	16	0	141	0.3	1	0	0	11	38.4	29	30	10	147
	VP shunt tap/programming	17.5	22	11	0	196	16.7	18	10	0	89	0.2	1	0	0	4	34.1	29	23	7	205
	Cervical spine traction	3.8	5	2	0	35	5.8	6	5	0	41	0.0	0	0	0	2	9.5	7	7	2	51
	Stereotactic frame placmnt	6.9	11	4	0	110	6.3	8	4	0	56	0.1	0	0	0	4	13.1	13	10	0	121
	CVP line placement	6.2	9	4	0	62	8.9	10	8	0	82	0.1	1	0	0	10	15.2	12	11	1	88
	Airway management	5.8	6	5	0	31	7.2	6	7	0	36	0.3	2	0	0	13	12.9	6	11	0	56
	Arterial line placement	6.5	11	3	0	87	10.5	12	10	0	100	0.1	1	0	0	11	17.0	17	12	1	150
	Arteriography	23.7	42	12	0	376	39.5	91	13	0	648	1.7	6	0	0	61	63.2	108	29	0	696
	TOTAL - Critical Care		101.7	82	80	0	467	125.5	108	93	2	707	3.1	8	0	0	65	227.2	137	188	57
TOTAL - Tracked Procedures	TOTAL - Credit Procedures	567.7	321	519	0	1,703	893.6	396	893	37	1,883	27.0	44	8	0	208	1,461.3	366	1,404	479	2,662
Additional Procedures	Craniofacial	4.5	5	3	0	36	6.2	7	4	0	49	0.4	1	0	0	11	10.7	9	8	0	67
	Tumor resection: primary/metast	6.3	7	4	0	33	11.8	9	10	0	42	0.3	1	0	0	3	18.2	12	17	0	57
	Spinal vascular lesion resectio	2.6	3	2	0	16	3.2	4	2	0	18	0.1	0	0	0	2	5.8	5	4	0	25
	Reconstructive secondary proc	0.2	1	0	0	4	0.4	1	0	0	9	0.0	0	0	0	1	0.6	1	0	0	10
	Miscellaneous/unclassified	16.1	19	12	0	199	14.9	13	11	0	89	0.7	2	0	0	12	31.0	23	26	2	201
	TOTAL - Additional Procs		29.8	27	23	0	249	36.5	24	33	0	144	1.5	3	0	0	20	66.2	35	62	3
Non-Tracked Procedures	Non-Tracked Procedures	20.5	104	6	0	1,410	9.7	15	6	0	155	0.4	1	0	0	16	30.2	109	15	0	1,466

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NEUROLOGICAL SURGERY : NATIONAL RESIDENT REPORT (Percentiles Table)

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		Resident Percentiles					Resident Percentiles					Resident Percentiles				
		10	30	50	70	90	10	30	50	70	90	10	30	50	70	90
RRC Area	RRC Procedure															
Adult Craniotomy - Brain Tumor	Biopsy	0	1	2	4	7	1	2	6	11	18	0	0	0	0	1
	Intra-axial	5	15	21	34	60	11	33	47	65	92	0	0	0	2	5
	Extra-axial	2	5	9	14	24	6	15	21	29	41	0	0	0	1	3
	Skull base and other	3	6	10	17	31	5	15	24	34	51	0	0	0	1	3
	TOTAL - Ad Craniotomy - Brain Tum	11	30	45	72	118	24	76	109	135	184	0	0	1	4	11
Adult Craniotomy - Trauma	Cranioplasty	1	4	7	11	18	2	6	10	15	22	0	0	0	0	1
	Depressed skull fract or extra-ax hematoma	4	12	19	30	55	7	20	29	42	68	0	0	0	1	4
	Craniect for abscess, contusn, or parnchymal	2	5	8	12	20	4	9	14	20	31	0	0	0	0	2
	Other (adult craniotomy - trauma)	1	4	7	10	19	1	5	10	16	26	0	0	0	0	1
	TOTAL - Ad Craniotomy - Trauma	17	30	44	67	99	16	48	70	90	138	0	0	0	2	7
Adult Craniotomy-Intracran Vasc Lesion	AVM (adult craniotomy)	0	2	3	7	11	1	4	6	9	15	0	0	0	0	1
	Aneurysm (adult craniotomy)	2	6	12	18	26	3	11	16	25	41	0	0	0	1	3
	Other (adult craniotomy)	0	0	1	2	4	0	1	2	4	7	0	0	0	0	0
	TOTAL - Adult Craniotomy for IVL	4	10	18	26	38	6	20	28	37	56	0	0	0	1	4
Endovasc Therp Tumor or Vasc Lesion	AVM (endovasc therapy)	0	0	1	2	7	0	0	1	2	8	0	0	0	0	0
	Aneurysm (endovasc therapy)	0	1	3	6	15	0	1	3	8	19	0	0	0	0	1
	Tumor embo, thrombectomy, or stent	0	1	3	6	13	0	0	2	6	20	0	0	0	0	1
	TOTAL - Endovasc Therp Tum or Vasc Lesn	0	3	8	14	33	0	3	8	15	41	0	0	0	0	2
Adult Craniotomy - Pain	Pain (adult craniotomy)	1	4	7	12	23	5	11	16	24	38	0	0	0	0	2
	TOTAL - Adult Craniotomy - Pain	1	4	7	12	23	5	11	16	24	38	0	0	0	0	2

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RRC Area	RRC Procedure															
Adult Cran-Transphen-Sell/Parasellar Tum	Transphen-sel/parasel tumors	2	5	10	16	27	5	14	19	28	44	0	0	0	0	2
	TOTAL - Transphen-Sell/Parasellar Tum	2	5	10	16	27	5	14	19	28	44	0	0	0	0	2
Adult - Cranial-Extracran Vasc Proc	Bypass, CEA, Ligation	0	2	3	5	9	1	3	5	8	14	0	0	0	0	1
	TOTAL - Extracran Vascular Procs	0	2	3	5	9	1	3	5	8	14	0	0	0	0	1
Adult - Radiosurgery	Radiosurgery	0	1	5	10	19	0	4	9	11	22	0	0	0	0	1
	TOTAL - Radiosurgery	0	1	5	10	19	0	4	9	11	22	0	0	0	0	1
Adult Functional Procedures	Vagal nerve stimulation	0	1	2	4	9	0	1	3	6	14	0	0	0	0	0
	Stimulation for pain	0	1	5	9	18	0	2	5	10	28	0	0	0	0	1
	DBS or lesioning	0	3	8	17	33	0	6	12	21	41	0	0	0	0	1
	Cordotomy/rhizotomy	0	0	0	0	2	0	0	0	1	3	0	0	0	0	0
	Sympathectomy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Intrathecal & implantable pumps	0	2	4	8	17	0	3	6	12	22	0	0	0	0	1
	Other (adult functional proc)	0	2	4	10	22	0	3	6	11	21	0	0	0	0	1
	TOTAL - Functional Procedures	6	16	29	49	87	9	24	40	62	123	0	0	0	1	4
Adult VP Shunt (CSF Diversn)	VPS	8	16	24	35	51	8	21	33	46	72	0	0	0	1	4
	ETV	0	0	1	2	4	0	1	2	4	7	0	0	0	0	0
	Other CSF diversion	0	2	4	6	11	1	3	5	7	16	0	0	0	0	1
	TOTAL - VP Shunt	10	20	30	43	64	12	29	42	59	84	0	0	0	1	5
TOTAL - Adult Cranial	TOTAL - Adult Cranial	90	164	237	313	450	120	292	406	495	673	0	0	4	12	40

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NEUROLOGICAL SURGERY : NATIONAL RESIDENT REPORT (Percentiles Table)

Reporting Period: Total Experience of Residents Completing Programs in 2016-2017

'Residency Review Committee for 'Neurological Surgery

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Programs in the Nation: 97 Residents in the Nation: 186

		Senior Resident Surgeon					Lead Resident Surgeon					Assistant Resident Surgeon				
		Resident Percentiles					Resident Percentiles					Resident Percentiles				
		10	30	50	70	90	10	30	50	70	90	10	30	50	70	90
RRC Area	RRC Procedure															
Adt Spinal - ACD with Instrumentn	Antr cervical appr for decom/stabiliz	4	12	20	32	69	17	32	51	66	99	0	0	0	1	5
	TOTAL - ACD	4	12	20	32	69	17	32	51	66	99	0	0	0	1	5
Adt Spin - C-spin Fract Op Stabiliz Proc	Postr cervical appr for decom/stabiliz	3	9	16	28	54	14	26	42	56	75	0	0	0	1	4
	TOTAL - C-spine Fract Op Stabil	3	9	16	28	54	14	26	42	56	75	0	0	0	1	4
Adult Spinal - Lumbar Discectomy	Lumbar discectomy	7	19	37	63	104	28	49	71	101	144	0	0	0	1	6
	TOTAL - Lumbar Discectomy	7	19	37	63	104	28	49	71	101	144	0	0	0	1	6
Adult Spinl - Thorac/Lumb Instrum & Fusn	Thoracic/lumbar instrumentn & fusion	7	24	40	67	129	29	56	90	120	179	0	0	0	2	9
	TOTAL - Thorac/Lumb Instrum & Fusn	7	24	40	67	129	29	56	90	120	179	0	0	0	2	9
Adult Spinal - Peripheral Nerve Procs	Neurolysis/transposition	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
	Nerve repair	0	2	3	7	17	1	3	6	11	22	0	0	0	0	1
	Peripheral nerve tumor	0	0	0	1	3	0	0	1	2	5	0	0	0	0	0
	Other (peripheral nerve procs)	0	1	2	3	7	0	1	3	4	9	0	0	0	0	0
	TOTAL - Peripheral Nerve Procs	2	5	7	13	26	3	8	12	18	31	0	0	0	0	1
TOTAL - Adult Spinal	TOTAL - Adult Spinal	35	77	121	224	364	105	199	283	366	500	0	0	1	6	29

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Reporting Period: Total Experience of Residents Completing Programs in 2016-2017

'Residency Review Committee for 'Neurological Surgery

Report Date: August 11, 2017

[Page 4] Programs in the Nation: 97 Residents in the Nation: 186

		Senior Resident Surgeon					Lead Resident Surgeon					Assistant Resident Surgeon				
		Resident Percentiles					Resident Percentiles					Resident Percentiles				
		10	30	50	70	90	10	30	50	70	90	10	30	50	70	90
RRC Area	RRC Procedure															
Pediatric Craniotomy - Brain Tumor	Craniotomy - brain tumor (ped)	0	2	4	8	14	1	6	9	16	26	0	0	0	0	1
	TOTAL - Ped Craniotomy - Brain Tum	0	2	4	8	14	1	6	9	16	26	0	0	0	0	1
Pediatric Craniotomy for Trauma	Craniotomy for trauma (ped)	0	2	4	7	15	2	7	9	13	19	0	0	0	0	1
	TOTAL - Ped Craniotomy for Trauma	0	2	4	7	15	2	7	9	13	19	0	0	0	0	1
Pediatric Spinal Procedures	Spinal procedures (ped)	0	2	3	6	13	2	5	8	12	21	0	0	0	0	1
	TOTAL - Ped Spinal Procedures	0	2	3	6	13	2	5	8	12	21	0	0	0	0	1
Pediatric VP Shunt	VP shunt (ped)	0	5	9	18	48	5	13	23	36	59	0	0	0	0	2
	TOTAL - Ped VP Shunt	0	5	9	18	48	5	13	23	36	59	0	0	0	0	2
TOTAL - Pediatric	TOTAL - Pediatric	3	12	24	40	83	11	35	53	81	111	0	0	0	1	5
Craniotomy for Epilepsy (Adult and Ped)	Craniotomy for epilepsy	1	4	7	10	21	2	7	11	15	27	0	0	0	0	1
	TOTAL - Epilepsy	1	4	7	10	21	2	7	11	15	27	0	0	0	0	1

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NEUROLOGICAL SURGERY : NATIONAL RESIDENT REPORT (Percentiles Table)

Reporting Period: Total Experience of Residents Completing Programs in 2016-2017

'Residency Review Committee for 'Neurological Surgery

Report Date: August 11, 2017

[Page 5] Programs in the Nation: 97 Residents in the Nation: 186

		Senior Resident Surgeon					Lead Resident Surgeon					Assistant Resident Surgeon				
		Resident Percentiles					Resident Percentiles					Resident Percentiles				
		10	30	50	70	90	10	30	50	70	90	10	30	50	70	90
RRC Area	RRC Procedure															
Minor Procedures/Critical Care	ICP monitor placement	0	4	10	19	45	1	3	5	8	19	0	0	0	0	0
	Ext ventricular drain placmnt	1	5	11	17	36	4	10	16	24	57	0	0	0	0	1
	VP shunt tap/programming	1	5	11	21	40	2	6	10	18	41	0	0	0	0	0
	Cervical spine traction	0	1	2	5	8	0	3	5	6	11	0	0	0	0	0
	Stereotactic frame placmnt	0	2	4	7	16	0	1	4	7	16	0	0	0	0	0
	CVP line placement	0	1	4	7	13	0	5	8	10	16	0	0	0	0	0
	Airway management	0	0	5	9	13	0	3	7	10	14	0	0	0	0	0
	Arterial line placement	0	0	3	8	14	1	4	10	12	20	0	0	0	0	0
	Arteriography	0	3	12	25	51	0	4	13	25	80	0	0	0	0	3
	TOTAL - Critical Care		19	48	80	122	210	37	65	93	148	231	0	0	0	2
TOTAL - Tracked Procedures	TOTAL - Credit Procedures	197	356	519	733	1,002	339	683	893	1,097	1,378	0	2	8	24	79
Additional Procedures	Craniofacial	0	1	3	5	11	0	1	4	7	16	0	0	0	0	1
	Tumor resection: primary/metast	0	2	4	7	16	1	6	10	16	25	0	0	0	0	1
	Spinal vascular lesion resectio	0	1	2	3	6	0	1	2	4	8	0	0	0	0	1
	Reconstructive secondary proc	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	Miscellaneous/unclassified	2	7	12	19	35	3	7	11	18	31	0	0	0	0	2
TOTAL - Additional Procs		5	15	23	36	63	10	20	33	48	63	0	0	0	1	5
Non-Tracked Procedures	Non-Tracked Procedures	0	2	6	11	42	0	2	6	10	23	0	0	0	0	1

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