



# 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 MED" - The median value among procedure counts in the nation.
    - iii. "Natl Res MIN" - The minimum value among procedure counts in the nation.
    - iv. "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.
- III. National Minimums Table for Resident Statistics

The table displays RRC minimums, Natl Res AVE, and counts of the number of residents in the nation that performed fewer than the RRC minimum.

**NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2012-2013**  
**Residency Review Committee for Neurological Surgery**  
**Report Date: October 18, 2013**

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Number of Programs in the Nation: 90    Number of Residents in the Nation: 178

		All Roles				Senior Resident Surgeon				Lead Resident Surgeon				Assistant Resident Surgeon			
		Natl Res AVE	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MED	Natl Res MIN	Natl Res MAX
RRC Area	RRC Procedure																
<b>Adult Craniotomy - Brain Tumor</b>	Biopsy	6.2	4	0	45	4.4	2	0	37	1.7	1	0	14	0.1	0	0	8
	Intra-axial	77.5	68	0	317	61.5	55	0	246	15.6	14	0	71	0.4	0	0	26
	Extra-axial	31.6	28	0	95	23.9	22	0	65	7.4	6	0	31	0.2	0	0	10
	Skull base and other	44.2	42	0	159	34.1	33	0	97	9.9	7	0	62	0.2	0	0	12
	TOTAL - Ad Craniotomy - Brain Tum	159.5	147	0	574	123.9	113	0	408	34.7	32	0	166	0.9	0	0	56
<b>Adult Craniotomy - Trauma</b>	Cranioplasty	17.7	16	0	54	15.2	14	0	47	2.4	1	0	29	0.1	0	0	10
	Depressed skull fract or extra-ax hematoma	53.5	46	0	160	44.7	39	0	119	8.4	4	0	68	0.4	0	0	14
	Craniect for abscess, contusn, or parnchyml	23.1	20	0	113	18.7	16	0	93	4.2	3	0	23	0.2	0	0	5
	Other (adult craniotomy - trauma)	19.0	16	0	157	16.3	14	0	145	2.6	1	0	28	0.1	0	0	9
	TOTAL - Ad Craniotomy - Trauma	113.3	106	0	340	95.0	85	0	311	17.5	12	0	125	0.8	0	0	32
<b>Adult Craniotomy-Intracran Vasc Lesion</b>	AVM (adult craniotomy)	10.8	9	0	58	7.7	6	0	44	2.9	2	0	20	0.2	0	0	11
	Aneurysm (adult craniotomy)	38.6	31	0	172	28.1	21	0	167	10.1	7	0	57	0.4	0	0	12
	Other (adult craniotomy)	0.8	0	0	10	0.7	0	0	10	0.1	0	0	2	0.0	0	0	0
	TOTAL - Adult Craniotomy for IVL	50.2	42	0	180	36.5	27	0	170	13.1	10	0	65	0.6	0	0	23
<b>Endovasc Therp Tumor or Vasc Lesion</b>	AVM (endovasc therapy)	5.1	1	0	84	4.2	1	0	84	0.8	0	0	20	0.1	0	0	9
	Aneurysm (endovasc therapy)	7.7	2	0	178	5.3	1	0	160	2.2	0	0	85	0.2	0	0	11
	Tumor embo, thrombectomy, or stent	10.4	2	0	204	8.8	1	0	204	1.5	0	0	102	0.1	0	0	7
	TOTAL - Endovasc Therp Tum or Vasc Lesr	23.2	9	0	280	18.3	5	0	256	4.5	0	0	154	0.4	0	0	12
<b>Adult Craniotomy - Pain</b>	Pain (adult craniotomy)	11.4	8	0	75	8.4	6	0	57	2.9	1	0	47	0.1	0	0	6
	TOTAL - Adult Craniotomy - Pain	11.4	8	0	75	8.4	6	0	57	2.9	1	0	47	0.1	0	0	6

# NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Main Table)

Reporting Period: Total Experience of Residents Completing Programs in 2012-2013

Residency Review Committee for Neurological Surgery

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Number of Programs in the Nation: 90    Number of Residents in the Nation: 178

		All Roles				Senior Resident Surgeon				Lead Resident Surgeon				Assistant Resident Surgeon			
		Natl Res AVE	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MED	Natl Res MIN	Natl Res MAX
RRC Area	RRC Procedure																
<b>Adult Cran-Transphen-Sell/Parasellar Tum</b>	Transphen-sel/parasel tumors	37.6	33	0	172	29.0	23	0	142	8.3	5	0	46	0.3	0	0	11
	TOTAL - Transphen-Sell/Parasellar Tum	37.6	33	0	172	29.0	23	0	142	8.3	5	0	46	0.3	0	0	11
<b>Adult - Cranial-Extracran Vasc Proc</b>	Bypass, CEA, Ligation	15.4	12	0	68	12.0	9	0	62	3.2	2	0	26	0.1	0	0	6
	Endovascular (CAS)	0.5	0	0	23	0.3	0	0	15	0.2	0	0	8	0.0	0	0	1
	TOTAL - Extracran Vascular Procs	15.9	13	0	91	12.3	9	0	77	3.4	2	0	26	0.1	0	0	6
<b>Adult - Radiosurgery</b>	Radiosurgery	17.2	10	0	300	14.2	4	0	300	3.0	0	0	41	0.1	0	0	5
	TOTAL - Radiosurgery	17.2	10	0	300	14.2	4	0	300	3.0	0	0	41	0.1	0	0	5
<b>Adult Functional Procedures</b>	Vagal nerve stimulation	6.5	4	0	42	5.8	4	0	41	0.6	0	0	17	0.0	0	0	2
	Stimulation for pain	13.7	10	0	103	11.3	8	0	47	2.3	0	0	67	0.1	0	0	7
	DBS or lesioning	23.0	17	0	110	19.6	15	0	110	3.3	0	0	78	0.1	0	0	7
	Cordotomy/rhizotomy	1.4	1	0	14	1.2	0	0	13	0.2	0	0	10	0.0	0	0	0
	Sympathectomy	0.3	0	0	11	0.3	0	0	11	0.0	0	0	3	0.0	0	0	0
	Intrathecal & implantable pumps	14.6	11	0	87	12.2	9	0	72	2.3	0	0	61	0.2	0	0	11
	Other (adult functional proc)	15.0	12	0	102	13.3	10	0	100	1.6	0	0	37	0.1	0	0	10
	TOTAL - Functional Procedures	74.6	64	0	367	63.7	55	0	237	10.4	3	0	244	0.5	0	0	22
<b>Adult VP Shunt (CSF Diversn)</b>	VPS	63.7	63	0	147	54.8	53	0	128	8.5	5	0	58	0.3	0	0	9
	ETV	4.8	4	0	24	3.7	3	0	21	1.1	0	0	11	0.0	0	0	1
	Other CSF diversion	10.7	8	0	94	9.1	7	0	91	1.6	1	0	33	0.1	0	0	5
	TOTAL - VP Shunt	79.2	78	0	197	67.6	65	0	190	11.2	7	0	64	0.4	0	0	10
<b>TOTAL - Adult Cranial</b>	TOTAL - Adult Cranial	582.0	569	0	1,232	468.9	474	0	978	109.0	94	0	531	4.1	0	0	106

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RRC Area	RRC Procedure																
<b>Adt Spinal - ACD with Instrumentn</b>	Antr cervical appr for decom/stabiliz	58.8	52	0	170	47.0	40	0	168	11.6	7	0	139	0.3	0	0	11
	TOTAL - ACD	58.8	52	0	170	47.0	40	0	168	11.6	7	0	139	0.3	0	0	11
<b>Adt Spin - C-spin Fract Op Stabiliz Proc</b>	Postr cervical appr for decom/stabiliz	45.4	40	0	154	36.6	33	0	137	8.7	7	0	48	0.2	0	0	5
	TOTAL - C-spine Fract Op Stabil	45.4	40	0	154	36.6	33	0	137	8.7	7	0	48	0.2	0	0	5
<b>Adult Spinal - Lumbar Discectomy</b>	Lumbar discectomy	117.7	104	0	427	100.7	89	0	380	16.6	10	0	260	0.4	0	0	19
	TOTAL - Lumbar Discectomy	117.7	104	0	427	100.7	89	0	380	16.6	10	0	260	0.4	0	0	19
<b>Adult Spinl - Thorac/Lumb Instrum &amp; Fusn</b>	Thoracic/lumbar instrumentn & fusion	139.6	112	0	600	118.2	92	0	494	20.9	14	0	149	0.5	0	0	14
	TOTAL - Thorac/Lumb Instrum & Fusn	139.6	112	0	600	118.2	92	0	494	20.9	14	0	149	0.5	0	0	14
<b>Adult Spinal - Peripheral Nerve Procs</b>	Neurolysis/transposition	0.6	0	0	21	0.5	0	0	17	0.1	0	0	9	0.0	0	0	1
	Nerve repair	15.3	12	0	96	13.1	10	0	96	2.2	1	0	27	0.0	0	0	4
	Peripheral nerve tumor	2.2	2	0	13	1.6	1	0	12	0.6	0	0	7	0.0	0	0	1
	Other (peripheral nerve procs)	6.1	4	0	66	5.2	4	0	51	0.8	0	0	45	0.0	0	0	3
	TOTAL - Peripheral Nerve Procs	24.2	21	0	104	20.5	17	0	104	3.7	2	0	46	0.1	0	0	7
<b>TOTAL - Adult Spinal</b>	TOTAL - Adult Spinal	<b>385.8</b>	359	0	1,010	<b>322.9</b>	298	0	845	<b>61.4</b>	44	0	521	<b>1.4</b>	0	0	46

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		Natl Res AVE	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MED	Natl Res MIN	Natl Res MAX
RRC Area	RRC Procedure																
<b>Pediatric Craniotomy - Brain Tumor</b>	Craniotomy - brain tumor (ped)	16.8	14	0	63	15.1	13	0	62	1.7	0	0	29	0.0	0	0	1
	TOTAL - Ped Craniotomy - Brain Tum	16.8	14	0	63	15.1	13	0	62	1.7	0	0	29	0.0	0	0	1
<b>Pediatric Craniotomy for Trauma</b>	Craniotomy for trauma (ped)	12.8	10	0	49	11.3	9	0	41	1.4	0	0	17	0.1	0	0	6
	TOTAL - Ped Craniotomy for Trauma	12.8	10	0	49	11.3	9	0	41	1.4	0	0	17	0.1	0	0	6
<b>Pediatric Spinal Procedures</b>	Spinal procedures (ped)	21.8	19	0	105	19.6	17	0	102	2.0	1	0	28	0.1	0	0	7
	TOTAL - Ped Spinal Procedures	21.8	19	0	105	19.6	17	0	102	2.0	1	0	28	0.1	0	0	7
<b>Pediatric VP Shunt</b>	VP shunt (ped)	51.1	45	0	164	47.2	40	0	163	3.7	0	0	93	0.2	0	0	15
	TOTAL - Ped VP Shunt	51.1	45	0	164	47.2	40	0	163	3.7	0	0	93	0.2	0	0	15
<b>TOTAL - Pediatric</b>	TOTAL - Pediatric	102.4	89	0	296	93.2	78	0	293	8.9	2	0	144	0.4	0	0	17
<b>Craniotomy for Epilepsy (Adult and Ped)</b>	Craniotomy for epilepsy	21.0	17	0	292	18.3	14	0	282	2.6	1	0	35	0.2	0	0	6
	TOTAL - Epilepsy	21.0	17	0	292	18.3	14	0	282	2.6	1	0	35	0.2	0	0	6

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		All Roles				Senior Resident Surgeon				Lead Resident Surgeon				Assistant Resident Surgeon				
		Natl Res AVE	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MED	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MED	Natl Res MIN	Natl Res MAX	
RRC Area	RRC Procedure																	
<b>Minor Procedures/Critical Care</b>	ICP monitor placement	19.8	14	0	121	18.5	12	0	120	1.1	0	0	32	0.2	0	0	20	
	Ext ventricular drain placmnt	20.0	14	0	98	16.8	11	0	95	3.1	1	0	84	0.1	0	0	4	
	VP shunt tap/programming	21.6	13	0	196	19.4	11	0	196	2.2	0	0	50	0.1	0	0	11	
	Cervical spine traction	5.1	3	0	56	4.2	2	0	56	0.8	0	0	17	0.0	0	0	1	
	Stereotactic frame placmnt	15.5	13	0	217	14.3	12	0	214	1.2	0	0	19	0.0	0	0	4	
	CVP line placement	2.7	0	0	34	1.0	0	0	33	1.5	0	0	27	0.2	0	0	12	
	Airway management	2.5	0	0	28	1.1	0	0	23	1.0	0	0	17	0.3	0	0	12	
	Arterial line placement	3.7	0	0	52	2.1	0	0	52	1.4	0	0	28	0.2	0	0	16	
	Arteriography	44.7	13	0	772	37.6	5	0	740	6.5	0	0	151	0.6	0	0	29	
	TOTAL - Critical Care		135.6	110	0	828	114.9	87	0	796	18.9	4	0	178	1.8	0	0	68
	<b>TOTAL</b>	TOTAL - Credit Procedures	<b>1,226.8</b>	1,228	0	2,349	<b>1,018.2</b>	1,029	0	1,998	<b>200.7</b>	157	0	1,018	<b>7.9</b>	0	0	150
<b>Additional Procedures</b>	Craniofacial	10.7	9	0	45	9.8	8	0	44	0.9	0	0	22	0.0	0	0	2	
	Tumor resection: primary/metast	20.9	19	0	66	16.8	16	0	63	4.0	2	0	27	0.1	0	0	4	
	Spinal vascular lesion resectio	9.6	8	0	41	8.2	7	0	32	1.4	1	0	11	0.0	0	0	0	
	Reconstructive secondary proc	1.0	1	0	9	0.9	0	0	9	0.2	0	0	4	0.0	0	0	2	
	Miscellaneous/unclassified	41.0	36	0	123	36.2	31	0	117	4.6	2	0	54	0.2	0	0	18	
	TOTAL - Additional Procs	<b>83.2</b>	78	0	199	<b>71.8</b>	68	0	193	<b>11.0</b>	7	0	92	<b>0.3</b>	0	0	21	
<b>Unassigned Procedures</b>	TOTAL - Unassigned	<b>28.1</b>	12	0	1,318	<b>26.0</b>	9	0	1,318	<b>2.0</b>	1	0	40	<b>0.1</b>	0	0	12	

# NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Percentiles Table)

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[Page 1 ]		Programs in the Nation: 90 Residents in the Nation: 178														
		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															
<b>Adult Craniotomy - Brain Tumor</b>	Biopsy	0	1	2	5	10	0	0	1	2	5	0	0	0	0	0
	Intra-axial	27	43	55	70	105	0	5	14	20	34	0	0	0	0	0
	Extra-axial	9	17	22	28	42	0	2	6	10	17	0	0	0	0	0
	Skull base and other	14	24	33	42	56	0	3	7	13	22	0	0	0	0	0
	TOTAL - Ad Craniotomy - Brain Tum	66	89	113	145	199	0	14	32	46	72	0	0	0	0	1
<b>Adult Craniotomy - Trauma</b>	Cranioplasty	6	10	14	18	27	0	0	1	3	6	0	0	0	0	0
	Depressed skull fract or extra-ax hematoma	21	29	39	56	79	0	2	4	10	21	0	0	0	0	0
	Craniect for abscess, contusn, or parnchyml	7	11	16	21	33	0	0	3	5	11	0	0	0	0	0
	Other (adult craniotomy - trauma)	4	10	14	20	29	0	0	1	2	8	0	0	0	0	0
	TOTAL - Ad Craniotomy - Trauma	52	70	85	111	152	0	5	12	20	42	0	0	0	0	1
<b>Adult Craniotomy-Intracran Vasc Lesion</b>	AVM (adult craniotomy)	2	4	6	9	14	0	1	2	4	7	0	0	0	0	0
	Aneurysm (adult craniotomy)	7	13	21	31	62	0	2	7	13	25	0	0	0	0	0
	Other (adult craniotomy)	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0
	TOTAL - Adult Craniotomy for IVL	11	20	27	41	73	0	4	10	17	30	0	0	0	0	1
<b>Endovasc Therp Tumor or Vasc Lesion</b>	AVM (endovasc therapy)	0	0	1	2	11	0	0	0	0	2	0	0	0	0	0
	Aneurysm (endovasc therapy)	0	0	1	3	13	0	0	0	1	5	0	0	0	0	0
	Tumor embo, thrombectomy, or stent	0	0	1	5	21	0	0	0	0	2	0	0	0	0	0
	TOTAL - Endovasc Therp Tum or Vasc Lesn	0	1	5	12	51	0	0	0	1	11	0	0	0	0	1
<b>Adult Craniotomy - Pain</b>	Pain (adult craniotomy)	1	4	6	10	19	0	0	1	3	7	0	0	0	0	0
	TOTAL - Adult Craniotomy - Pain	1	4	6	10	19	0	0	1	3	7	0	0	0	0	0

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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															
<b>Adult Cran-Transphen-Sell/Parasellar Tum</b>	Transphen-sel/parasel tumors	10	18	23	33	50	0	2	5	10	25	0	0	0	0	0
	TOTAL - Transphen-Sell/Parasellar Tum	10	18	23	33	50	0	2	5	10	25	0	0	0	0	0
<b>Adult - Cranial-Extracran Vasc Proc</b>	Bypass, CEA, Ligation	2	5	9	14	25	0	1	2	4	8	0	0	0	0	0
	Endovascular (CAS)	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	TOTAL - Extracran Vascular Procs	2	5	9	14	25	0	1	2	4	9	0	0	0	0	0
<b>Adult - Radiosurgery</b>	Radiosurgery	0	1	4	13	34	0	0	0	1	9	0	0	0	0	0
	TOTAL - Radiosurgery	0	1	4	13	34	0	0	0	1	9	0	0	0	0	0
<b>Adult Functional Procedures</b>	Vagal nerve stimulation	0	2	4	7	15	0	0	0	0	2	0	0	0	0	0
	Stimulation for pain	1	4	8	14	29	0	0	0	1	7	0	0	0	0	0
	DBS or lesioning	2	8	15	23	44	0	0	0	2	10	0	0	0	0	0
	Cordotomy/rhizotomy	0	0	0	2	3	0	0	0	0	1	0	0	0	0	0
	Sympathectomy	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Intrathecal & implantable pumps	1	5	9	15	26	0	0	0	1	5	0	0	0	0	0
	Other (adult functional proc)	1	6	10	15	28	0	0	0	1	4	0	0	0	0	0
	TOTAL - Functional Procedures	19	38	55	80	114	0	0	3	8	29	0	0	0	0	0
<b>Adult VP Shunt (CSF Diversn)</b>	VPS	26	41	53	65	86	0	2	5	10	23	0	0	0	0	1
	ETV	0	1	3	5	8	0	0	0	1	3	0	0	0	0	0
	Other CSF diversion	2	5	7	10	18	0	0	1	2	3	0	0	0	0	0
	TOTAL - VP Shunt	34	48	65	81	105	0	3	7	13	30	0	0	0	0	1
<b>TOTAL - Adult Cranial</b>	TOTAL - Adult Cranial	298	390	474	536	647	0	58	94	133	246	0	0	0	0	10



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		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															
<b>Adt Spinal - ACD with Instrumentn</b>	Antr cervical appr for decom/stabiliz	17	30	40	55	86	0	3	7	14	27	0	0	0	0	0
	TOTAL - ACD	17	30	40	55	86	0	3	7	14	27	0	0	0	0	0
<b>Adt Spin - C-spin Fract Op Stabiliz Proc</b>	Postr cervical appr for decom/stabiliz	14	23	33	43	63	0	3	7	11	21	0	0	0	0	0
	TOTAL - C-spine Fract Op Stabil	14	23	33	43	63	0	3	7	11	21	0	0	0	0	0
<b>Adult Spinal - Lumbar Discectomy</b>	Lumbar discectomy	40	70	89	113	182	0	3	10	17	42	0	0	0	0	1
	TOTAL - Lumbar Discectomy	40	70	89	113	182	0	3	10	17	42	0	0	0	0	1
<b>Adult Spinal - Thorac/Lumb Instrum &amp; Fusn</b>	Thoracic/lumbar instrumentn & fusion	34	69	92	140	239	0	6	14	22	51	0	0	0	0	1
	TOTAL - Thorac/Lumb Instrum & Fusn	34	69	92	140	239	0	6	14	22	51	0	0	0	0	1
<b>Adult Spinal - Peripheral Nerve Procs</b>	Neurolysis/transposition	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Nerve repair	2	6	10	15	24	0	0	1	2	7	0	0	0	0	0
	Peripheral nerve tumor	0	0	1	2	4	0	0	0	1	2	0	0	0	0	0
	Other (peripheral nerve procs)	1	2	4	7	11	0	0	0	1	2	0	0	0	0	0
	TOTAL - Peripheral Nerve Procs	6	12	17	23	40	0	0	2	4	10	0	0	0	0	0
<b>TOTAL - Adult Spinal</b>	TOTAL - Adult Spinal	154	229	298	368	549	0	24	44	76	145	0	0	0	0	4

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		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															
<b>Pediatric Craniotomy - Brain Tumor</b>	Craniotomy - brain tumor (ped)	5	10	13	18	28	0	0	0	2	5	0	0	0	0	0
	TOTAL - Ped Craniotomy - Brain Tum	5	10	13	18	28	0	0	0	2	5	0	0	0	0	0
<b>Pediatric Craniotomy for Trauma</b>	Craniotomy for trauma (ped)	4	6	9	14	24	0	0	0	1	5	0	0	0	0	0
	TOTAL - Ped Craniotomy for Trauma	4	6	9	14	24	0	0	0	1	5	0	0	0	0	0
<b>Pediatric Spinal Procedures</b>	Spinal procedures (ped)	7	11	17	22	36	0	0	1	2	6	0	0	0	0	0
	TOTAL - Ped Spinal Procedures	7	11	17	22	36	0	0	1	2	6	0	0	0	0	0
<b>Pediatric VP Shunt</b>	VP shunt (ped)	14	26	40	56	90	0	0	0	2	11	0	0	0	0	0
	TOTAL - Ped VP Shunt	14	26	40	56	90	0	0	0	2	11	0	0	0	0	0
<b>TOTAL - Pediatric</b>	TOTAL - Pediatric	36	60	78	109	163	0	1	2	7	23	0	0	0	0	1
<b>Craniotomy for Epilepsy (Adult and Ped)</b>	Craniotomy for epilepsy	4	9	14	21	33	0	0	1	3	8	0	0	0	0	0
	TOTAL - Epilepsy	4	9	14	21	33	0	0	1	3	8	0	0	0	0	0

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		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															
<b>Minor Procedures/Critical Care</b>	ICP monitor placement	0	5	12	22	48	0	0	0	0	3	0	0	0	0	0
	Ext ventricular drain placmnt	2	6	11	20	38	0	0	1	2	8	0	0	0	0	0
	VP shunt tap/programming	1	4	11	21	47	0	0	0	1	6	0	0	0	0	0
	Cervical spine traction	0	0	2	4	8	0	0	0	0	3	0	0	0	0	0
	Stereotactic frame placmnt	3	7	12	16	25	0	0	0	1	4	0	0	0	0	0
	CVP line placement	0	0	0	0	1	0	0	0	0	7	0	0	0	0	0
	Airway management	0	0	0	0	4	0	0	0	0	2	0	0	0	0	0
	Arterial line placement	0	0	0	0	9	0	0	0	0	7	0	0	0	0	0
	Arteriography	0	0	5	25	101	0	0	0	1	18	0	0	0	0	0
	TOTAL - Critical Care		25	57	87	137	250	0	1	4	18	58	0	0	0	0
<b>TOTAL</b>	TOTAL - Credit Procedures	681	856	1,029	1,169	1,357	1	103	157	246	443	0	0	0	2	19
<b>Additional Procedures</b>	Craniofacial	3	5	8	11	19	0	0	0	1	2	0	0	0	0	0
	Tumor resection: primary/metast	8	12	16	20	29	0	1	2	5	10	0	0	0	0	0
	Spinal vascular lesion resectio	3	5	7	10	16	0	0	1	1	4	0	0	0	0	0
	Reconstructive secondary proc	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0
	Miscellaneous/unclassified	15	24	31	42	64	0	1	2	5	11	0	0	0	0	0
TOTAL - Additional Procs		42	58	68	78	110	0	4	7	13	26	0	0	0	0	0
<b>Unassigned Procedures</b>	TOTAL - Unassigned	2	5	9	18	45	0	0	1	2	5	0	0	0	0	0