



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.

NEUROLOGICAL SURGERY : NATIONAL RESIDENT REPORT (Main Table)

Reporting Period: Total Experience of Residents Completing Programs in 2013-2014

Residency Review Committee for Neurological Surgery

Report Date: September 4, 2014

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Number of Programs in the Nation: 91 Number of Residents in the Nation: 159

		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																
Adult Craniotomy - Brain Tumor	Biopsy	8.3	7	0	46	3.6	3	0	20	4.5	3	0	20	0.2	0	0	17
	Intra-axial	77.6	70	21	172	43.4	41	1	146	33.8	31	0	105	0.4	0	0	13
	Extra-axial	32.0	29	9	115	16.5	14	0	85	15.3	14	0	44	0.2	0	0	3
	Skull base and other	47.9	44	12	125	25.8	24	0	103	21.8	20	0	67	0.3	0	0	7
	TOTAL - Ad Craniotomy - Brain Tum	165.8	158	71	318	89.4	86	1	267	75.3	71	0	191	1.0	0	0	36
Adult Craniotomy - Trauma	Cranioplasty	17.7	17	3	65	12.7	11	0	56	5.0	4	0	21	0.1	0	0	5
	Depressed skull fract or extra-ax hematoma	59.3	52	14	181	39.1	33	0	166	19.9	15	0	120	0.3	0	0	16
	Craniect for abscess, contusn, or parnchyml	24.7	23	2	76	14.1	13	0	42	10.4	9	0	42	0.1	0	0	5
	Other (adult craniotomy - trauma)	18.1	15	1	131	12.4	10	0	113	5.6	3	0	35	0.1	0	0	3
	TOTAL - Ad Craniotomy - Trauma	119.9	111	41	261	78.3	70	0	228	41.0	36	0	163	0.6	0	0	23
Adult Craniotomy-Intracran Vasc Lesion	AVM (adult craniotomy)	12.6	11	1	48	5.9	5	0	21	6.7	5	0	33	0.0	0	0	1
	Aneurysm (adult craniotomy)	35.9	33	6	120	16.7	13	0	78	18.7	15	0	76	0.5	0	0	14
	Other (adult craniotomy)	0.6	0	0	6	0.4	0	0	4	0.2	0	0	4	0.0	0	0	0
	TOTAL - Adult Craniotomy for IVL	49.1	43	9	168	23.1	18	0	94	25.6	22	0	109	0.5	0	0	14
Endovasc Therp Tumor or Vasc Lesion	AVM (endovasc therapy)	8.0	2	0	111	5.8	1	0	99	2.1	0	0	43	0.2	0	0	19
	Aneurysm (endovasc therapy)	17.5	6	0	324	11.6	2	0	198	5.7	0	0	126	0.2	0	0	9
	Tumor embo, thrombectomy, or stent	10.7	4	0	136	7.9	2	0	136	2.6	0	0	54	0.1	0	0	7
	TOTAL - Endovasc Therp Tum or Vasc Lesn	36.2	13	0	381	25.3	9	0	296	10.4	1	0	150	0.5	0	0	20
Adult Craniotomy - Pain	Pain (adult craniotomy)	12.3	10	1	50	6.1	5	0	36	6.1	5	0	43	0.1	0	0	4
	TOTAL - Adult Craniotomy - Pain	12.3	10	1	50	6.1	5	0	36	6.1	5	0	43	0.1	0	0	4

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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																
Adult Cran-Transphen-Sell/Parasellar Tum	Transphen-sel/parasel tumors	35.5	32	7	99	19.1	17	0	69	16.2	14	0	75	0.3	0	0	5
	TOTAL - Transphen-Sell/Parasellar Tum	35.5	32	7	99	19.1	17	0	69	16.2	14	0	75	0.3	0	0	5
Adult - Cranial-Extracran Vasc Proc	Bypass, CEA, Ligation	16.6	14	0	125	9.3	6	0	67	7.2	5	0	58	0.1	0	0	4
	Endovascular (CAS)	0.8	0	0	16	0.5	0	0	11	0.3	0	0	13	0.1	0	0	4
	TOTAL - Extracran Vascular Procs	17.4	14	0	139	9.7	6	0	78	7.5	5	0	61	0.2	0	0	5
Adult - Radiosurgery	Radiosurgery	23.0	11	0	193	16.6	5	0	191	5.8	2	0	60	0.6	0	0	36
	TOTAL - Radiosurgery	23.0	11	0	193	16.6	5	0	191	5.8	2	0	60	0.6	0	0	36
Adult Functional Procedures	Vagal nerve stimulation	6.3	4	0	34	4.9	3	0	34	1.4	0	0	25	0.0	0	0	2
	Stimulation for pain	13.1	8	0	99	9.4	5	0	99	3.6	1	0	32	0.0	0	0	2
	DBS or lesioning	21.4	14	0	114	16.0	11	0	82	5.3	2	0	50	0.1	0	0	5
	Cordotomy/rhizotomy	1.3	1	0	27	0.9	0	0	27	0.4	0	0	3	0.0	0	0	1
	Sympathectomy	0.4	0	0	11	0.3	0	0	11	0.1	0	0	4	0.0	0	0	0
	Intrathecal & implantable pumps	13.5	10	0	78	10.7	7	0	59	2.8	1	0	26	0.1	0	0	5
	Other (adult functional proc)	14.9	10	0	94	10.8	7	0	56	4.0	2	0	46	0.1	0	0	5
	TOTAL - Functional Procedures	70.8	59	9	324	52.9	44	0	215	17.5	9	0	125	0.3	0	0	6
Adult VP Shunt (CSF Diversn)	VPS	64.4	60	13	162	44.4	44	0	97	19.7	17	0	93	0.3	0	0	10
	ETV	4.4	3	0	22	2.5	2	0	19	1.9	1	0	18	0.1	0	0	4
	Other CSF diversion	10.3	9	0	33	7.0	5	0	26	3.2	2	0	17	0.1	0	0	2
	TOTAL - VP Shunt	79.2	79	20	176	53.9	52	0	120	24.8	22	0	95	0.4	0	0	15
TOTAL - Adult Cranial	TOTAL - Adult Cranial	609.3	587	281	1,176	374.5	362	3	852	230.2	224	3	581	4.6	1	0	76

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RRC Area	RRC Procedure																
Adt Spinal - ACD with Instrumentn	Antr cervical appr for decom/stabiliz	66.5	60	18	212	39.9	34	0	160	26.3	21	0	206	0.3	0	0	16
	TOTAL - ACD	66.5	60	18	212	39.9	34	0	160	26.3	21	0	206	0.3	0	0	16
Adt Spin - C-spin Fract Op Stabiliz Proc	Postr cervical appr for decom/stabiliz	51.8	46	16	144	29.8	26	0	83	21.7	19	0	144	0.3	0	0	10
	TOTAL - C-spine Fract Op Stabil	51.8	46	16	144	29.8	26	0	83	21.7	19	0	144	0.3	0	0	10
Adult Spinal - Lumbar Discectomy	Lumbar discectomy	124.1	105	29	431	81.9	74	0	389	41.6	30	0	387	0.6	0	0	27
	TOTAL - Lumbar Discectomy	124.1	105	29	431	81.9	74	0	389	41.6	30	0	387	0.6	0	0	27
Adult Spinl - Thorac/Lumb Instrum & Fusn	Thoracic/lumbar instrumentn & fusion	141.0	134	16	363	92.0	83	0	268	48.2	42	0	198	0.9	0	0	49
	TOTAL - Thorac/Lumb Instrum & Fusn	141.0	134	16	363	92.0	83	0	268	48.2	42	0	198	0.9	0	0	49
Adult Spinal - Peripheral Nerve Procs	Neurolysis/transposition	0.8	0	0	14	0.5	0	0	6	0.3	0	0	12	0.0	0	0	0
	Nerve repair	15.8	12	0	68	10.9	8	0	63	4.7	3	0	33	0.1	0	0	7
	Peripheral nerve tumor	2.7	2	0	27	1.5	1	0	19	1.2	0	0	16	0.0	0	0	1
	Other (peripheral nerve procs)	6.2	4	0	36	4.3	3	0	30	1.8	1	0	29	0.0	0	0	1
	TOTAL - Peripheral Nerve Procs	25.5	21	3	109	17.2	13	0	76	8.2	6	0	37	0.2	0	0	9
TOTAL - Adult Spinal	TOTAL - Adult Spinal	408.9	395	135	962	260.8	263	0	789	145.9	130	0	727	2.2	0	0	111

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RRC Area	RRC Procedure																
Pediatric Craniotomy - Brain Tumor	Craniotomy - brain tumor (ped)	17.8	15	2	112	13.3	11	0	110	4.5	3	0	23	0.1	0	0	5
	TOTAL - Ped Craniotomy - Brain Tum	17.8	15	2	112	13.3	11	0	110	4.5	3	0	23	0.1	0	0	5
Pediatric Craniotomy for Trauma	Craniotomy for trauma (ped)	13.5	12	0	65	9.8	9	0	54	3.4	2	0	20	0.3	0	0	17
	TOTAL - Ped Craniotomy for Trauma	13.5	12	0	65	9.8	9	0	54	3.4	2	0	20	0.3	0	0	17
Pediatric Spinal Procedures	Spinal procedures (ped)	21.8	18	2	116	17.2	14	0	116	4.6	2	0	34	0.1	0	0	3
	TOTAL - Ped Spinal Procedures	21.8	18	2	116	17.2	14	0	116	4.6	2	0	34	0.1	0	0	3
Pediatric VP Shunt	VP shunt (ped)	48.3	40	3	239	39.9	31	0	237	8.1	3	0	73	0.4	0	0	27
	TOTAL - Ped VP Shunt	48.3	40	3	239	39.9	31	0	237	8.1	3	0	73	0.4	0	0	27
TOTAL - Pediatric	TOTAL - Pediatric	101.5	85	24	532	80.1	65	0	517	20.5	13	0	120	0.8	0	0	29
Craniotomy for Epilepsy (Adult and Ped)	Craniotomy for epilepsy	22.9	18	1	214	15.8	12	0	207	6.9	5	0	47	0.1	0	0	8
	TOTAL - Epilepsy	22.9	18	1	214	15.8	12	0	207	6.9	5	0	47	0.1	0	0	8

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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																	
Minor Procedures/Critical Care	ICP monitor placement	19.2	12	0	120	17.2	10	0	120	1.8	0	0	47	0.2	0	0	9	
	Ext ventricular drain placmnt	21.3	15	0	151	14.3	10	0	134	6.7	2	0	125	0.3	0	0	15	
	VP shunt tap/programming	21.1	12	0	159	16.1	10	0	145	4.9	1	0	91	0.1	0	0	5	
	Cervical spine traction	5.7	4	0	54	3.9	2	0	53	1.7	0	0	25	0.1	0	0	6	
	Stereotactic frame placmnt	13.0	10	0	112	10.2	8	0	87	2.8	1	0	63	0.0	0	0	3	
	CVP line placement	5.3	0	0	99	1.7	0	0	77	3.2	0	0	99	0.4	0	0	24	
	Airway management	4.6	0	0	51	2.1	0	0	36	2.2	0	0	17	0.3	0	0	12	
	Arterial line placement	6.1	1	0	71	1.9	0	0	71	3.9	0	0	32	0.3	0	0	12	
	Arteriography	71.4	28	0	927	49.2	15	0	661	21.5	1	0	488	0.7	0	0	48	
	TOTAL - Critical Care		167.8	129	2	1,022	116.6	87	0	696	48.8	24	0	536	2.4	0	0	106
	TOTAL - Tracked Procedures	TOTAL - Credit Procedures	1,310.4	1,294	513	2,326	847.8	836	3	1,616	452.4	439	5	1,467	10.1	1	0	202
Additional Procedures	Craniofacial	10.9	9	1	49	9.0	8	0	49	1.8	1	0	17	0.1	0	0	3	
	Tumor resection: primary/metast	21.4	19	2	76	12.4	11	0	46	8.8	8	0	47	0.1	0	0	5	
	Spinal vascular lesion resectio	8.2	8	0	27	5.5	5	0	22	2.7	2	0	13	0.1	0	0	4	
	Reconstructive secondary proc	0.9	0	0	17	0.6	0	0	13	0.4	0	0	6	0.0	0	0	1	
	Miscellaneous/unclassified	34.6	32	5	113	26.2	24	0	92	8.2	6	0	43	0.2	0	0	14	
TOTAL - Additional Procs		76.0	71	16	178	53.7	51	0	141	21.9	19	0	66	0.4	0	0	20	
Non-Tracked Procedures	Non-Tracked Procedures	19.1	10	0	238	13.6	6	0	223	4.2	2	0	43	1.3	0	0	195	

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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	3	4	8	0	1	3	6	10	0	0	0	0	0
	Intra-axial	15	29	41	53	74	11	22	31	41	66	0	0	0	0	1
	Extra-axial	6	10	14	19	30	4	10	14	19	28	0	0	0	0	1
	Skull base and other	10	15	24	32	46	6	14	20	28	41	0	0	0	0	1
	TOTAL - Ad Craniotomy - Brain Tum	36	61	86	111	148	29	53	71	93	138	0	0	0	0	2
Adult Craniotomy - Trauma	Cranioplasty	4	8	11	15	24	0	2	4	7	11	0	0	0	0	0
	Depressed skull fract or extra-ax hematoma	12	22	33	47	76	4	11	15	23	42	0	0	0	0	1
	Craniect for abscess, contusn, or parnchyml	5	9	13	18	26	3	6	9	12	21	0	0	0	0	0
	Other (adult craniotomy - trauma)	2	7	10	14	22	0	1	3	7	15	0	0	0	0	0
	TOTAL - Ad Craniotomy - Trauma	34	55	70	89	136	11	23	36	51	79	0	0	0	0	1
Adult Craniotomy-Intracran Vasc Lesion	AVM (adult craniotomy)	1	3	5	8	12	1	3	5	8	13	0	0	0	0	0
	Aneurysm (adult craniotomy)	3	8	13	20	34	3	11	15	23	37	0	0	0	0	1
	Other (adult craniotomy)	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	TOTAL - Adult Craniotomy for IVL	6	12	18	31	42	5	16	22	31	50	0	0	0	0	1
Endovasc Therp Tumor or Vasc Lesion	AVM (endovasc therapy)	0	0	1	5	15	0	0	0	1	6	0	0	0	0	0
	Aneurysm (endovasc therapy)	0	0	2	7	33	0	0	0	2	13	0	0	0	0	0
	Tumor embo, thrombectomy, or stent	0	0	2	5	20	0	0	0	1	8	0	0	0	0	0
	TOTAL - Endovasc Therp Tum or Vasc Lesn	0	3	9	14	66	0	0	1	5	36	0	0	0	0	1
Adult Craniotomy - Pain	Pain (adult craniotomy)	1	2	5	8	14	0	3	5	7	14	0	0	0	0	0
	TOTAL - Adult Craniotomy - Pain	1	2	5	8	14	0	3	5	7	14	0	0	0	0	0

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		10	30	50	70	90	10	30	50	70	90	10	30	50	70	90
RRC Area	RRC Procedure															
Adult Cran-Transphen-Sell/Parasellar Tum	Transphen-sel/parasel tumors	6	11	17	23	34	4	10	14	20	30	0	0	0	0	1
	TOTAL - Transphen-Sell/Parasellar Tum	6	11	17	23	34	4	10	14	20	30	0	0	0	0	1
Adult - Cranial-Extracran Vasc Proc	Bypass, CEA, Ligation	1	3	6	12	21	0	3	5	8	16	0	0	0	0	0
	Endovascular (CAS)	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	TOTAL - Extracran Vascular Procs	1	4	6	12	22	1	3	5	8	16	0	0	0	0	0
Adult - Radiosurgery	Radiosurgery	0	1	5	11	51	0	0	2	8	13	0	0	0	0	0
	TOTAL - Radiosurgery	0	1	5	11	51	0	0	2	8	13	0	0	0	0	0
Adult Functional Procedures	Vagal nerve stimulation	0	1	3	6	13	0	0	0	1	4	0	0	0	0	0
	Stimulation for pain	1	3	5	9	22	0	0	1	3	10	0	0	0	0	0
	DBS or lesioning	2	6	11	17	39	0	0	2	6	14	0	0	0	0	0
	Cordotomy/rhizotomy	0	0	0	1	2	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	4	7	13	24	0	0	1	3	7	0	0	0	0	0
	Other (adult functional proc)	1	3	7	14	26	0	0	2	4	10	0	0	0	0	0
	TOTAL - Functional Procedures	14	28	44	66	99	1	5	9	19	49	0	0	0	0	1
Adult VP Shunt (CSF Diversn)	VPS	21	31	44	56	74	2	12	17	24	38	0	0	0	0	1
	ETV	0	1	2	3	6	0	0	1	3	5	0	0	0	0	0
	Other CSF diversion	1	3	5	9	16	0	1	2	4	7	0	0	0	0	0
	TOTAL - VP Shunt	23	40	52	66	86	4	16	22	30	47	0	0	0	0	1
TOTAL - Adult Cranial	TOTAL - Adult Cranial	213	289	362	439	548	85	170	224	283	384	0	0	1	3	13

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		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	13	25	34	45	73	4	13	21	37	54	0	0	0	0	1
	TOTAL - ACD	13	25	34	45	73	4	13	21	37	54	0	0	0	0	1
Adt Spin - C-spin Fract Op Stabiliz Proc	Postr cervical appr for decom/stabiliz	12	19	26	36	52	4	12	19	27	41	0	0	0	0	1
	TOTAL - C-spine Fract Op Stabil	12	19	26	36	52	4	12	19	27	41	0	0	0	0	1
Adult Spinal - Lumbar Discectomy	Lumbar discectomy	33	50	74	99	140	7	20	30	46	82	0	0	0	0	1
	TOTAL - Lumbar Discectomy	33	50	74	99	140	7	20	30	46	82	0	0	0	0	1
Adult Spinal - Thorac/Lumb Instrum & Fusn	Thoracic/lumbar instrumentn & fusion	29	51	83	117	177	8	28	42	61	99	0	0	0	0	2
	TOTAL - Thorac/Lumb Instrum & Fusn	29	51	83	117	177	8	28	42	61	99	0	0	0	0	2
Adult Spinal - Peripheral Nerve Procs	Neurolysis/transposition	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
	Nerve repair	1	4	8	13	25	0	1	3	6	13	0	0	0	0	0
	Peripheral nerve tumor	0	0	1	2	4	0	0	0	1	4	0	0	0	0	0
	Other (peripheral nerve procs)	0	2	3	4	8	0	0	1	2	4	0	0	0	0	0
	TOTAL - Peripheral Nerve Procs	5	9	13	20	36	0	3	6	9	20	0	0	0	0	0
TOTAL - Adult Spinal	TOTAL - Adult Spinal	119	203	263	319	388	33	87	130	180	263	0	0	0	0	5

NEUROLOGICAL SURGERY : NATIONAL RESIDENT REPORT (Percentiles Table)

Reporting Period: Total Experience of Residents Completing Programs in 2013-2014

Residency Review Committee for Neurological Surgery

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Programs in the Nation: 91 Residents in the Nation: 159

		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)	3	7	11	14	29	0	1	3	6	12	0	0	0	0	0
	TOTAL - Ped Craniotomy - Brain Tum	3	7	11	14	29	0	1	3	6	12	0	0	0	0	0
Pediatric Craniotomy for Trauma	Craniotomy for trauma (ped)	1	5	9	12	21	0	1	2	4	9	0	0	0	0	0
	TOTAL - Ped Craniotomy for Trauma	1	5	9	12	21	0	1	2	4	9	0	0	0	0	0
Pediatric Spinal Procedures	Spinal procedures (ped)	4	10	14	20	32	0	1	2	5	12	0	0	0	0	0
	TOTAL - Ped Spinal Procedures	4	10	14	20	32	0	1	2	5	12	0	0	0	0	0
Pediatric VP Shunt	VP shunt (ped)	10	22	31	50	77	0	1	3	9	23	0	0	0	0	0
	TOTAL - Ped VP Shunt	10	22	31	50	77	0	1	3	9	23	0	0	0	0	0
TOTAL - Pediatric	TOTAL - Pediatric	25	48	65	97	148	0	6	13	25	50	0	0	0	0	1
Craniotomy for Epilepsy (Adult and Ped)	Craniotomy for epilepsy	2	7	12	19	34	0	3	5	9	15	0	0	0	0	0
	TOTAL - Epilepsy	2	7	12	19	34	0	3	5	9	15	0	0	0	0	0

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Programs in the Nation: 91 Residents in the Nation: 159

		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	3	10	22	45	0	0	0	1	6	0	0	0	0	0
	Ext ventricular drain placmnt	2	5	10	17	33	0	1	2	5	18	0	0	0	0	0
	VP shunt tap/programming	1	5	10	15	38	0	0	1	3	14	0	0	0	0	0
	Cervical spine traction	0	0	2	4	8	0	0	0	1	5	0	0	0	0	0
	Stereotactic frame placmnt	2	5	8	12	21	0	0	1	2	8	0	0	0	0	0
	CVP line placement	0	0	0	0	5	0	0	0	0	11	0	0	0	0	0
	Airway management	0	0	0	0	8	0	0	0	0	10	0	0	0	0	0
	Arterial line placement	0	0	0	0	7	0	0	0	3	13	0	0	0	0	0
	Arteriography	0	2	15	40	153	0	0	1	10	41	0	0	0	0	0
	TOTAL - Critical Care		24	48	87	130	240	1	6	24	53	106	0	0	0	0
TOTAL - Tracked Procedures	TOTAL - Credit Procedures	487	674	836	985	1,321	150	310	439	538	707	0	0	1	5	23
Additional Procedures	Craniofacial	2	5	8	11	17	0	0	1	2	6	0	0	0	0	0
	Tumor resection: primary/metast	4	8	11	16	23	1	4	8	12	17	0	0	0	0	0
	Spinal vascular lesion resectio	1	3	5	7	10	0	1	2	4	6	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	8	16	24	32	48	1	4	6	10	18	0	0	0	0	0
TOTAL - Additional Procs		24	39	51	62	90	5	14	19	28	42	0	0	0	0	1
Non-Tracked Procedures	Non-Tracked Procedures	1	2	6	13	31	0	1	2	5	11	0	0	0	0	0