



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 2015-2016
Residency Review Committee for Neurological Surgery
Report Date: September 20, 2016

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Number of Programs in the Nation: 94 Number of Residents in the Nation: 186

		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	10.2	9	0	36	3.3	2	0	19	6.8	6	0	31	0.2	0	0	7
	Intra-axial	81.5	77	21	228	34.8	27	0	179	45.3	42	1	145	1.3	0	0	30
	Extra-axial	35.2	35	6	82	14.7	11	0	71	19.8	19	0	60	0.6	0	0	14
	Skull base and other	42.7	41	10	172	17.5	14	0	86	24.4	23	0	159	0.7	0	0	11
	TOTAL - Ad Craniotomy - Brain Tum	169.5	164	60	411	70.4	56	0	301	96.4	95	3	361	2.8	0	0	55
Adult Craniotomy - Trauma	Cranioplasty	19.0	16	1	57	9.5	9	0	43	9.2	7	0	40	0.3	0	0	7
	Depressed skull fract or extra-ax hematoma	59.9	54	5	193	29.8	26	0	118	29.5	27	0	162	0.6	0	0	13
	Craniect for abscess, contusn, or parnchyml	27.0	24	2	78	11.1	9	0	54	15.5	13	0	63	0.4	0	0	7
	Other (adult craniotomy - trauma)	20.7	17	0	115	10.1	7	0	78	10.3	8	0	86	0.3	0	0	8
	TOTAL - Ad Craniotomy - Trauma	126.6	113	41	392	60.5	57	0	235	64.5	61	0	324	1.6	0	0	24
Adult Craniotomy-Intracran Vasc Lesion	AVM (adult craniotomy)	13.9	12	1	44	5.7	4	0	23	8.0	7	0	44	0.3	0	0	9
	Aneurysm (adult craniotomy)	38.5	34	4	129	17.6	16	0	79	20.0	18	0	102	1.0	0	0	32
	Other (adult craniotomy)	4.8	4	0	54	1.9	1	0	15	2.8	2	0	39	0.1	0	0	2
	TOTAL - Adult Craniotomy for IVL	57.2	52	11	182	25.1	24	0	99	30.8	28	0	152	1.3	0	0	42
Endovasc Therp Tumor or Vasc Lesion	AVM (endovasc therapy)	6.7	4	0	59	3.1	2	0	25	3.5	1	0	50	0.1	0	0	4
	Aneurysm (endovasc therapy)	16.9	7	0	194	6.1	4	0	74	10.4	3	0	186	0.3	0	0	11
	Tumor embo, thrombectomy, or stent	16.4	7	0	203	6.5	3	0	75	9.8	1	0	203	0.2	0	0	8
	TOTAL - Endovasc Therp Tum or Vasc Lesn	40.0	16	2	391	15.6	10	0	130	23.7	7	0	300	0.6	0	0	20
Adult Craniotomy - Pain	Pain (adult craniotomy)	30.9	29	5	103	13.3	11	0	78	17.3	15	0	86	0.4	0	0	8
	TOTAL - Adult Craniotomy - Pain	30.9	29	5	103	13.3	11	0	78	17.3	15	0	86	0.4	0	0	8

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

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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																
Adult Cran-Transphen-Sell/Parasellar Tum	Transphen-sel/parasel tumors	37.5	32	14	168	16.0	11	0	81	21.0	17	0	162	0.5	0	0	11
	TOTAL - Transphen-Sell/Parasellar Tum	37.5	32	14	168	16.0	11	0	81	21.0	17	0	162	0.5	0	0	11
Adult - Cranial-Extracran Vasc Proc	Bypass, CEA, Ligation	11.9	10	0	70	4.8	4	0	36	6.9	5	0	62	0.2	0	0	5
	TOTAL - Extracran Vascular Procs	11.9	10	0	70	4.8	4	0	36	6.9	5	0	62	0.2	0	0	5
Adult - Radiosurgery	Radiosurgery	22.9	13	2	224	11.9	6	0	224	10.8	8	0	106	0.2	0	0	13
	TOTAL - Radiosurgery	22.9	13	2	224	11.9	6	0	224	10.8	8	0	106	0.2	0	0	13
Adult Functional Procedures	Vagal nerve stimulation	7.8	5	0	40	3.4	2	0	24	4.3	2	0	35	0.0	0	0	2
	Stimulation for pain	17.2	11	0	120	8.9	4	0	81	8.2	4	0	94	0.1	0	0	5
	DBS or lesioning	28.2	20	0	138	15.1	10	0	87	12.9	6	0	91	0.1	0	0	4
	Cordotomy/rhizotomy	1.9	0	0	61	1.1	0	0	61	0.8	0	0	19	0.0	0	0	0
	Sympathectomy	0.4	0	0	17	0.2	0	0	12	0.2	0	0	6	0.0	0	0	1
	Intrathecal & implantable pumps	16.7	13	0	125	9.1	6	0	125	7.5	4	0	61	0.1	0	0	4
	Other (adult functional proc)	17.1	11	0	110	8.9	5	0	73	8.1	4	0	94	0.1	0	0	2
	TOTAL - Functional Procedures	89.3	74	15	377	46.8	37	0	374	42.1	29	0	279	0.4	0	0	12
Adult VP Shunt (CSF Diversn)	VPS	64.8	61	12	179	33.7	28	0	129	30.5	27	0	170	0.6	0	0	12
	ETV	5.0	4	0	22	2.1	1	0	14	2.8	2	0	19	0.1	0	0	2
	Other CSF diversion	11.9	10	0	43	6.5	5	0	25	5.3	4	0	41	0.1	0	0	3
	TOTAL - VP Shunt	81.7	78	17	233	42.3	37	0	159	38.6	34	1	221	0.8	0	0	14
TOTAL - Adult Cranial	TOTAL - Adult Cranial	667.4	659	247	1,482	306.7	278	0	893	351.8	349	12	1,297	8.9	2	0	147

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RRC Area	RRC Procedure																
Adt Spinal - ACD with Instrumentn	Antr cervical appr for decom/stabiliz	82.5	75	16	213	32.9	26	0	164	48.8	39	0	180	0.9	0	0	35
	TOTAL - ACD	82.5	75	16	213	32.9	26	0	164	48.8	39	0	180	0.9	0	0	35
Adt Spin - C-spin Fract Op Stabiliz Proc	Postr cervical appr for decom/stabiliz	61.1	56	16	176	24.8	18	0	129	35.7	34	0	129	0.6	0	0	13
	TOTAL - C-spine Fract Op Stabil	61.1	56	16	176	24.8	18	0	129	35.7	34	0	129	0.6	0	0	13
Adult Spinal - Lumbar Discectomy	Lumbar discectomy	133.3	119	29	447	61.2	47	0	264	70.7	58	0	320	1.3	0	0	46
	TOTAL - Lumbar Discectomy	133.3	119	29	447	61.2	47	0	264	70.7	58	0	320	1.3	0	0	46
Adult Spinal - Thorac/Lumb Instrum & Fusn	Thoracic/lumbar instrumentn & fusion	152.7	137	23	468	69.3	56	0	335	81.9	70	0	314	1.5	0	0	38
	TOTAL - Thorac/Lumb Instrum & Fusn	152.7	137	23	468	69.3	56	0	335	81.9	70	0	314	1.5	0	0	38
Adult Spinal - Peripheral Nerve Procs	Neurolysis/transposition	0.7	0	0	4	0.3	0	0	4	0.4	0	0	3	0.0	0	0	1
	Nerve repair	18.5	13	0	125	9.2	6	0	85	9.0	5	0	103	0.2	0	0	11
	Peripheral nerve tumor	2.9	2	0	18	1.2	0	0	15	1.7	1	0	17	0.0	0	0	4
	Other (peripheral nerve procs)	6.9	5	0	33	3.7	2	0	23	3.1	2	0	31	0.1	0	0	6
	TOTAL - Peripheral Nerve Procs	29.0	22	9	129	14.5	10	0	108	14.2	11	0	107	0.3	0	0	21
TOTAL - Adult Spinal	TOTAL - Adult Spinal	458.5	434	111	982	202.6	175	0	770	251.2	222	1	766	4.7	0	0	116

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RRC Area	RRC Procedure																
Pediatric Craniotomy - Brain Tumor	Craniotomy - brain tumor (ped)	18.0	15	5	73	8.2	6	0	61	9.7	7	0	45	0.2	0	0	6
	TOTAL - Ped Craniotomy - Brain Tum	18.0	15	5	73	8.2	6	0	61	9.7	7	0	45	0.2	0	0	6
Pediatric Craniotomy for Trauma	Craniotomy for trauma (ped)	15.5	14	2	49	7.3	6	0	29	8.0	7	0	33	0.2	0	0	6
	TOTAL - Ped Craniotomy for Trauma	15.5	14	2	49	7.3	6	0	29	8.0	7	0	33	0.2	0	0	6
Pediatric Spinal Procedures	Spinal procedures (ped)	14.9	12	5	65	7.2	5	0	46	7.6	5	0	58	0.1	0	0	5
	TOTAL - Ped Spinal Procedures	14.9	12	5	65	7.2	5	0	46	7.6	5	0	58	0.1	0	0	5
Pediatric VP Shunt	VP shunt (ped)	46.5	43	10	292	24.8	19	0	233	21.1	14	0	109	0.5	0	0	45
	TOTAL - Ped VP Shunt	46.5	43	10	292	24.8	19	0	233	21.1	14	0	109	0.5	0	0	45
TOTAL - Pediatric	TOTAL - Pediatric	94.9	85	31	430	47.5	40	0	313	46.4	36	0	193	1.0	0	0	52
Craniotomy for Epilepsy (Adult and Ped)	Craniotomy for epilepsy	21.3	17	0	124	10.4	8	0	53	10.6	8	0	112	0.3	0	0	10
	TOTAL - Epilepsy	21.3	17	0	124	10.4	8	0	53	10.6	8	0	112	0.3	0	0	10

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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	22.2	13	2	179	15.7	9	0	85	6.3	4	0	116	0.2	0	0	12
	Ext ventricular drain placmnt	30.5	22	6	166	17.6	11	0	157	12.6	9	0	75	0.2	0	0	8
	VP shunt tap/programming	30.0	16	1	194	18.7	11	0	180	11.2	8	0	114	0.2	0	0	16
	Cervical spine traction	8.4	7	0	43	4.0	3	0	22	4.4	4	0	30	0.0	0	0	2
	Stereotactic frame placmnt	13.1	9	0	64	8.3	6	0	36	4.7	3	0	60	0.1	0	0	5
	CVP line placement	12.4	11	0	38	5.3	4	0	26	6.8	6	0	28	0.3	0	0	14
	Airway management	11.6	11	0	45	4.9	3	0	22	6.4	6	0	44	0.3	0	0	15
	Arterial line placement	13.2	12	0	62	4.9	2	0	46	8.2	9	0	42	0.2	0	0	12
	Arteriography	67.4	30	5	638	26.5	19	0	227	39.8	15	0	591	1.1	0	0	28
	TOTAL - Critical Care		208.8	171	46	817	105.9	95	0	416	100.4	71	0	667	2.5	0	0
TOTAL - Tracked Procedures	TOTAL - Credit Procedures	1,450.9	1,414	612	2,733	673.1	628	0	1,997	760.5	760	20	2,401	17.3	4	0	231
Additional Procedures	Craniofacial	10.4	9	0	46	5.6	4	0	29	4.7	3	0	38	0.1	0	0	2
	Tumor resection: primary/metast	20.2	18	0	116	8.1	6	0	40	11.9	9	0	116	0.2	0	0	7
	Spinal vascular lesion resectio	6.8	6	0	27	3.4	3	0	19	3.3	2	0	21	0.0	0	0	1
	Reconstructive secondary proc	0.8	0	0	7	0.4	0	0	3	0.4	0	0	6	0.0	0	0	1
	Miscellaneous/unclassified	35.4	30	1	204	18.6	15	0	115	16.5	11	0	184	0.3	0	0	11
TOTAL - Additional Procs		73.6	65	16	246	36.1	33	0	154	37.0	34	0	201	0.6	0	0	13
Non-Tracked Procedures	Non-Tracked Procedures	16.8	13	0	106	8.7	5	0	98	7.8	5	0	103	0.3	0	0	17

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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	8	0	2	6	8	16	0	0	0	0	0
	Intra-axial	7	17	27	42	76	10	30	42	56	84	0	0	0	0	3
	Extra-axial	4	7	11	18	30	3	12	19	28	37	0	0	0	0	2
	Skull base and other	3	8	14	20	41	3	12	23	32	44	0	0	0	0	2
	TOTAL - Ad Craniotomy - Brain Tum	19	36	56	84	148	18	66	95	123	166	0	0	0	1	6
Adult Craniotomy - Trauma	Cranioplasty	2	6	9	12	17	1	4	7	12	21	0	0	0	0	1
	Depressed skull fract or extra-ax hematoma	7	16	26	36	60	5	14	27	39	56	0	0	0	0	2
	Craniect for abscess, contusn, or parnchymal	3	6	9	14	21	3	8	13	19	30	0	0	0	0	1
	Other (adult craniotomy - trauma)	2	4	7	11	21	1	5	8	12	21	0	0	0	0	1
	TOTAL - Ad Craniotomy - Trauma	20	37	57	69	106	17	37	61	84	117	0	0	0	1	5
Adult Craniotomy-Intracran Vasc Lesion	AVM (adult craniotomy)	1	3	4	7	12	1	4	7	10	16	0	0	0	0	1
	Aneurysm (adult craniotomy)	4	9	16	22	32	3	10	18	25	38	0	0	0	0	2
	Other (adult craniotomy)	0	0	1	2	5	0	1	2	3	5	0	0	0	0	0
	TOTAL - Adult Craniotomy for IVL	8	14	24	32	42	6	17	28	36	58	0	0	0	1	3
Endovasc Therp Tumor or Vasc Lesion	AVM (endovasc therapy)	0	0	2	3	8	0	0	1	2	8	0	0	0	0	0
	Aneurysm (endovasc therapy)	0	1	4	6	15	0	0	3	6	22	0	0	0	0	0
	Tumor embo, thrombectomy, or stent	0	1	3	6	17	0	0	1	6	22	0	0	0	0	0
	TOTAL - Endovasc Therp Tum or Vasc Lesn	1	6	10	13	41	0	2	7	13	58	0	0	0	0	1
Adult Craniotomy - Pain	Pain (adult craniotomy)	2	6	11	16	31	3	10	15	22	34	0	0	0	0	1
	TOTAL - Adult Craniotomy - Pain	2	6	11	16	31	3	10	15	22	34	0	0	0	0	1

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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	2	6	11	18	39	3	11	17	25	39	0	0	0	0	1
	TOTAL - Transphen-Sell/Parasellar Tum	2	6	11	18	39	3	11	17	25	39	0	0	0	0	1
Adult - Cranial-Extracran Vasc Proc	Bypass, CEA, Ligation	0	2	4	6	10	0	3	5	7	13	0	0	0	0	0
	TOTAL - Extracran Vascular Procs	0	2	4	6	10	0	3	5	7	13	0	0	0	0	0
Adult - Radiosurgery	Radiosurgery	0	2	6	10	23	0	3	8	11	22	0	0	0	0	0
	TOTAL - Radiosurgery	0	2	6	10	23	0	3	8	11	22	0	0	0	0	0
Adult Functional Procedures	Vagal nerve stimulation	0	1	2	4	8	0	1	2	4	12	0	0	0	0	0
	Stimulation for pain	0	2	4	9	22	0	1	4	8	20	0	0	0	0	0
	DBS or lesioning	1	5	10	18	36	0	2	6	13	30	0	0	0	0	0
	Cordotomy/rhizotomy	0	0	0	1	2	0	0	0	1	2	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	6	11	19	0	2	4	9	20	0	0	0	0	0
	Other (adult functional proc)	0	3	5	10	22	0	2	4	7	22	0	0	0	0	0
	TOTAL - Functional Procedures		6	20	37	58	92	5	16	29	46	103	0	0	0	0
Adult VP Shunt (CSF Diversn)	VPS	9	20	28	44	60	8	16	27	39	58	0	0	0	0	2
	ETV	0	0	1	3	5	0	1	2	3	7	0	0	0	0	0
	Other CSF diversion	1	3	5	7	15	0	2	4	6	11	0	0	0	0	0
	TOTAL - VP Shunt	15	25	37	55	76	11	23	34	48	70	0	0	0	0	2
TOTAL - Adult Cranial	TOTAL - Adult Cranial	133	199	278	362	572	108	245	349	439	560	0	0	2	5	23

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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	8	15	26	37	66	9	28	39	58	98	0	0	0	0	2
	TOTAL - ACD	8	15	26	37	66	9	28	39	58	98	0	0	0	0	2
Adt Spin - C-spin Fract Op Stabiliz Proc	Postr cervical appr for decom/stabiliz	5	12	18	29	53	8	22	34	44	65	0	0	0	0	1
	TOTAL - C-spine Fract Op Stabil	5	12	18	29	53	8	22	34	44	65	0	0	0	0	1
Adult Spinal - Lumbar Discectomy	Lumbar discectomy	17	31	47	72	130	13	35	58	88	139	0	0	0	0	3
	TOTAL - Lumbar Discectomy	17	31	47	72	130	13	35	58	88	139	0	0	0	0	3
Adult Spinl - Thorac/Lumb Instrum & Fusn	Thoracic/lumbar instrumentn & fusion	15	37	56	83	131	16	42	70	98	164	0	0	0	1	3
	TOTAL - Thorac/Lumb Instrum & Fusn	15	37	56	83	131	16	42	70	98	164	0	0	0	1	3
Adult Spinal - Peripheral Nerve Procs	Neurolysis/transposition	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	Nerve repair	1	2	6	10	23	0	2	5	11	20	0	0	0	0	0
	Peripheral nerve tumor	0	0	0	1	4	0	0	1	2	4	0	0	0	0	0
	Other (peripheral nerve procs)	0	1	2	5	9	0	1	2	4	7	0	0	0	0	0
	TOTAL - Peripheral Nerve Procs	3	6	10	15	32	2	6	11	16	29	0	0	0	0	1
TOTAL - Adult Spinal	TOTAL - Adult Spinal	62	112	175	253	375	68	162	222	304	496	0	0	0	2	12

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

NEUROLOGICAL SURGERY : NATIONAL RESIDENT REPORT (Percentiles Table)

Reporting Period: Total Experience of Residents Completing Programs in 2015-2016

'Residency Review Committee for 'Neurological Surgery

Report Date: September 20, 2016

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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															
Pediatric Craniotomy - Brain Tumor	Craniotomy - brain tumor (ped)	1	3	6	10	18	1	3	7	12	21	0	0	0	0	0
	TOTAL - Ped Craniotomy - Brain Tum	1	3	6	10	18	1	3	7	12	21	0	0	0	0	0
Pediatric Craniotomy for Trauma	Craniotomy for trauma (ped)	1	3	6	10	15	1	4	7	10	17	0	0	0	0	1
	TOTAL - Ped Craniotomy for Trauma	1	3	6	10	15	1	4	7	10	17	0	0	0	0	1
Pediatric Spinal Procedures	Spinal procedures (ped)	0	3	5	9	15	0	3	5	10	17	0	0	0	0	0
	TOTAL - Ped Spinal Procedures	0	3	5	9	15	0	3	5	10	17	0	0	0	0	0
Pediatric VP Shunt	VP shunt (ped)	2	8	19	31	55	1	7	14	27	51	0	0	0	0	1
	TOTAL - Ped VP Shunt	2	8	19	31	55	1	7	14	27	51	0	0	0	0	1
TOTAL - Pediatric	TOTAL - Pediatric	7	19	40	65	95	5	18	36	57	105	0	0	0	0	2
Craniotomy for Epilepsy (Adult and Ped)	Craniotomy for epilepsy	1	5	8	12	19	1	4	8	11	19	0	0	0	0	1
	TOTAL - Epilepsy	1	5	8	12	19	1	4	8	11	19	0	0	0	0	1

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

NEUROLOGICAL SURGERY : NATIONAL RESIDENT REPORT (Percentiles Table)

Reporting Period: Total Experience of Residents Completing Programs in 2015-2016

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Programs in the Nation: 94 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	9	19	41	0	2	4	6	13	0	0	0	0	0
	Ext ventricular drain placmnt	2	7	11	17	40	1	5	9	15	25	0	0	0	0	0
	VP shunt tap/programming	1	5	11	19	53	0	4	8	12	23	0	0	0	0	0
	Cervical spine traction	0	1	3	5	10	0	1	4	5	9	0	0	0	0	0
	Stereotactic frame placmnt	1	4	6	10	19	0	0	3	6	11	0	0	0	0	0
	CVP line placement	0	0	4	8	12	0	2	6	10	14	0	0	0	0	0
	Airway management	0	0	3	8	12	0	1	6	10	13	0	0	0	0	0
	Arterial line placement	0	0	2	8	12	0	3	9	11	16	0	0	0	0	0
	Arteriography	0	8	19	27	61	0	4	15	26	107	0	0	0	0	2
	TOTAL - Critical Care		27	66	95	131	208	21	48	71	104	223	0	0	0	0
TOTAL - Tracked Procedures	TOTAL - Credit Procedures	282	478	628	783	1,114	231	572	760	923	1,234	0	0	4	11	56
Additional Procedures	Craniofacial	0	2	4	7	13	0	1	3	6	12	0	0	0	0	0
	Tumor resection: primary/metast	1	4	6	10	17	1	4	9	16	24	0	0	0	0	1
	Spinal vascular lesion resectio	0	1	3	4	7	0	1	2	4	8	0	0	0	0	0
	Reconstructive secondary proc	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0
	Miscellaneous/unclassified	4	10	15	20	37	2	6	11	20	30	0	0	0	0	0
TOTAL - Additional Procs		11	23	33	42	65	7	20	34	46	65	0	0	0	0	2
Non-Tracked Procedures	Non-Tracked Procedures	0	2	5	9	20	0	2	5	8	19	0	0	0	0	1

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