



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 standard deviation indicates how tightly the scores are clustered around the mean in the set of data.
 - iii. "Natl Res MIN" - The minimum value among procedure counts in the nation.
 - iv. "Natl Res MED" - The median value among procedure counts in the nation.
 - vi. "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 - Adult Cases)

Reporting Period: Total Experience of Residents Completing Programs in 2010-2011

Residency Review Committee for Neurological Surgery

Report Date: October 5, 2011

Patient Age=Adult

[Page 1]

Number of Programs in the Nation: 88 Number of Residents in the Nation: 154

		Senior Clinical Year					Other Clinical Years					Total All Years				
		Natl Res AVE	Natl Res STD	Natl Res MIN	Natl Res MED	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MIN	Natl Res MED	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MIN	Natl Res MED	Natl Res MAX
RRC Area	RRC Procedure															
Cranial Procedures - Vascular	Aneurysm - craniotomy	22.3	16	0	20	69	17.1	19	0	12	147	39.4	28	0	33	216
	Aneurysm - endovascular	3.1	11	0	0	119	4.9	11	0	0	94	7.9	16	0	1	121
	AVM/other malformation - craniotomy	5.8	5	0	5	39	3.9	4	0	3	20	9.8	8	0	8	52
	AVM/other malformation - endovascular	0.6	3	0	0	32	1.6	5	0	0	53	2.2	6	0	0	53
	AVM/other malformation - stereotactic radiosurgery	0.3	1	0	0	12	0.9	3	0	0	20	1.2	3	0	0	21
	Hematoma non-traumatic	7.3	7	0	6	35	9.6	9	0	7	40	16.9	12	0	14	60
	Other - vascular (open or endovascular)	3.0	3	0	2	17	4.1	5	0	3	25	7.1	6	0	6	31
	TOTAL - Cranial Procedures - Vascular	42.4	30	0	35	231	42.1	37	0	34	215	84.4	50	14	72	298
Cranial Procedures - Tumor	Intra-axial and/or extra-axial - craniotomy	64.5	36	0	56	195	62.7	38	0	58	228	127.2	53	36	124	318
	Stereotactic biopsy	5.1	5	0	4	24	9.2	9	0	7	63	14.3	11	0	12	82
	Intra-axial and/or extra-axial - radiosurgery	1.8	6	0	0	54	8.9	25	0	1	174	10.7	25	0	2	183
	Parasellar/sellar tumor - transsphenoidal	13.9	12	0	12	73	14.3	13	0	10	72	28.2	18	5	24	108
	Other - tumor (open surgery, endoscopy, endovasc)	4.0	5	0	2	36	4.5	6	0	3	37	8.5	8	0	7	45
	TOTAL - Cranial Procedures- Tumor	89.3	46	0	79	236	99.6	58	0	99	282	188.9	73	57	183	417

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[Page 2]

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RRC Area	RRC Procedure															
Cranial Procedures - Functional	Epilepsy (therapeutic and/or diag) - craniotomy	5.0	6	0	3	38	6.7	9	0	5	87	11.7	13	0	8	114
	Epilepsy, diagnostic - stereotactic implantation	0.3	1	0	0	14	0.9	3	0	0	32	1.2	4	0	0	46
	Epilepsy, therapeutic - other (vagal stimulation)	0.9	2	0	0	9	3.8	5	0	2	27	4.7	6	0	3	32
	Movement disorder - stimulation/stereotactic lesion	5.2	9	0	1	44	17.1	21	0	11	146	22.3	24	0	16	158
	Pain - stimulation	0.3	1	0	0	5	1.0	2	0	0	11	1.3	2	0	0	12
	Percutaneous lesion creation	0.9	2	0	0	8	2.1	3	0	1	20	3.0	4	0	1	24
	Craniotomy/craniectomy	5.0	6	0	3	47	5.1	14	0	2	171	10.1	19	0	6	218
	Stereotactic radiosurgery (functional)	0.2	1	0	0	13	1.6	5	0	0	31	1.8	5	0	0	33
	Other (functional)	0.0	0	0	0	1	0.1	0	0	0	2	0.1	0	0	0	2
	TOTAL - Cranial Procedures- Functional		17.8	16	0	13	97	38.4	35	0	31	214	56.2	43	1	46
Cranial Procedures - Trauma	Depressed skull fracture/penetrating wound	2.8	3	0	2	13	4.5	6	0	3	50	7.3	6	0	6	50
	Hematoma	22.7	18	0	19	118	36.8	25	0	33	198	59.5	30	8	54	214
	Other (trauma)	1.1	2	0	1	24	1.9	3	0	1	24	3.1	4	0	2	26
	TOTAL - Cranial Procedures - Trauma	26.6	20	0	24	127	43.3	29	0	40	228	69.9	35	13	66	249

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[Page 3]

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RRC Area	RRC Procedure															
Cranial Procedures - Cranial Recon/Cranioplasty	Craniosynostosis	0.1	0	0	0	3	0.3	1	0	0	11	0.5	1	0	0	12
	Craniofacial reconstruction	0.4	1	0	0	7	0.4	1	0	0	4	0.8	1	0	0	9
	Cranioplasty	3.8	4	0	3	22	7.8	7	0	6	35	11.7	8	0	10	45
	TOTAL - Cranial Procedures - Cranial Recon/Cranioplasty	4.4	4	0	3	24	8.6	7	0	7	38	12.9	8	1	12	51
Cranial Procedures - Other	Infection/cyst/orbit/skull lesion/dural-CSF/Chiari	10.0	7	0	9	37	16.2	11	0	15	60	26.2	13	5	24	76
	TOTAL - Cranial Procedures - Other	10.0	7	0	9	37	16.2	11	0	15	60	26.2	13	5	24	76
Extracranial/Intracranial Occlusive Vascular Dis	Carotid endarterectomy	4.3	4	0	3	21	3.0	4	0	1	23	7.2	7	0	5	33
	Carotid angioplasty/stenting (endovascular)	0.8	5	0	0	59	1.2	4	0	0	24	2.0	6	0	0	59
	EC/IC bypass	1.5	3	0	0	29	1.3	6	0	0	61	2.8	9	0	1	85
	Other vascular -patch/bypass/ligation/other	0.5	1	0	0	12	0.3	1	0	0	5	0.8	2	0	0	12
	TOTAL - Extracranial/Intracranial Occlusive Vascular Dis	7.1	8	0	5	68	5.8	9	0	3	80	12.9	14	0	9	112

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[Page 4]

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RRC Area	RRC Procedure															
CSF Shunting	Initial	13.1	11	0	11	64	29.1	21	0	24	121	42.2	24	11	36	142
	Revision	8.6	7	0	7	50	20.4	14	0	17	55	29.0	15	4	27	69
	Third ventriculostomy	1.8	2	0	1	12	2.0	2	0	1	17	3.8	4	0	3	28
	Other (CSF shunting procedures)	0.1	0	0	0	4	0.9	2	0	0	20	1.0	2	0	0	20
	TOTAL - CSF Shunting	23.6	18	0	20	115	52.4	32	0	47	182	76.1	35	19	73	217
Spinal Procedures - Disc and/or Spondylosis	Cervical - discectomy/decompression	16.1	16	0	12	84	30.3	25	0	24	129	46.4	30	4	40	140
	Cervical - w/ instrumentation/fusion	23.9	19	0	20	83	38.7	31	0	32	140	62.6	39	4	58	170
	Thoracic - discectomy/decompression	2.2	2	0	2	13	3.2	3	0	3	14	5.4	4	0	5	17
	Thoracic - w/ instrumentation/fusion	2.4	3	0	1	15	2.9	4	0	2	30	5.3	6	0	4	45
	Lumbar/sacral - discectomy/decompression	34.2	26	0	28	167	73.9	56	0	61	349	108.1	63	27	95	468
	Lumbar/sacral - w/ instrumentation/fusion	22.8	20	0	19	106	37.4	35	0	28	174	60.2	45	3	46	224
	TOTAL - Spinal Procedures - Disc and/or Spondylosis	101.7	65	0	92	425	186.3	119	0	157	605	288.0	136	62	262	842

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[Page 5]

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RRC Area	RRC Procedure															
Spinal Procedures - Tumor/Vascular Lesion	Primary tumor resection	7.6	5	0	7	29	7.3	5	0	7	24	14.9	8	2	14	50
	Primary tumor - resection w/instrumentation/fusion	1.0	2	0	0	16	1.4	3	0	0	27	2.4	5	0	1	43
	Metastatic tumor resection	3.0	3	0	2	19	3.1	3	0	2	16	6.1	5	0	5	23
	Metastatic tumor resection w/instrumentation/fusion	1.8	3	0	1	16	2.4	4	0	1	27	4.1	5	0	2	27
	Vascular lesion	0.5	1	0	0	4	0.4	1	0	0	5	1.0	1	0	1	6
	Vascular lesion resection w/instrumentation/fusion	0.0	0	0	0	1	0.0	0	0	0	1	0.0	0	0	0	1
	Radiosurgery - tumor/vascular lesion	0.2	3	0	0	33	0.0	0	0	0	1	0.2	3	0	0	33
	Other tumor/vascular lesion (open or endovascular)	0.0	0	0	0	2	0.1	0	0	0	2	0.1	0	0	0	2
	TOTAL - Spinal Procedures - Tumor/Vascular Lesion	14.1	10	0	12	73	14.8	11	0	13	61	28.9	15	7	26	88

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[Page 6]

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RRC Area	RRC Procedure															
Spinal Procedures - Trauma	Cervical - operative decompression/reduction	1.3	3	0	0	24	1.3	2	0	1	9	2.7	3	0	2	26
	Cervical - with instrumentation/fusion	6.4	8	0	5	68	7.4	7	0	5	33	13.8	11	0	12	80
	Thoracic - operative decompression/reduction	0.9	2	0	0	13	0.6	1	0	0	12	1.5	2	0	1	13
	Thoracic - with instrumentation/fusion	3.5	4	0	2	26	3.9	5	0	3	29	7.3	7	0	6	43
	Lumbar/sacral - operative decompression/reduction	0.8	1	0	0	9	0.6	1	0	0	11	1.4	2	0	1	16
	Lumbar/sacral - with instrumentation/fusion	2.3	3	0	1	23	3.4	4	0	2	22	5.8	5	0	4	30
	TOTAL - Spinal Procedures- Trauma	15.2	15	0	12	119	17.2	16	0	15	92	32.5	23	1	27	135
	Spinal Procedures - Dysraphism	Spinal dysraphism	0.8	1	0	0	5	1.6	2	0	1	12	2.4	2	0	2
	TOTAL - Spinal Procedures - Dysraphism	0.8	1	0	0	5	1.6	2	0	1	12	2.4	2	0	2	12
Spinal Procedures - Spasticity/Pain	Pump implantation	2.0	3	0	1	16	7.8	10	0	4	53	9.7	11	0	6	60
	Rhizotomy	0.3	1	0	0	5	0.3	1	0	0	4	0.6	1	0	0	6
	Stimulation	2.3	4	0	1	34	8.0	11	0	4	55	10.3	13	0	6	65
	TOTAL - Spinal Procedures - Spasticity/Pain	4.5	7	0	2	48	16.1	19	0	9	75	20.7	22	0	13	116

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Main Table - Adult Cases)

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[Page 7]

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RRC Area	RRC Procedure															
Spinal Procedures - Other	Vertebroplasty/kyphoplasty	1.2	3	0	0	29	2.9	5	0	1	33	4.1	6	0	2	35
	Non-neoplastic lesions/deformity/infection/other	8.0	6	0	7	36	14.1	9	0	13	47	22.1	11	3	20	56
	Non-neoplastic lesions - w/instrumentation/fusion	0.9	2	0	0	13	1.2	2	0	1	8	2.1	2	0	2	15
	TOTAL - Spinal Procedures - Other	10.2	8	0	9	57	18.1	12	0	17	52	28.3	13	3	26	64
Peripheral Nerve Procedures	Neurolysis/transposition	4.2	5	0	3	28	11.0	11	0	8	53	15.2	12	0	13	72
	Nerve repair	0.5	2	0	0	28	0.9	3	0	0	25	1.3	5	0	0	53
	Sympathectomy	0.0	0	0	0	2	0.2	1	0	0	3	0.3	1	0	0	4
	Nerve stimulation	0.6	2	0	0	10	1.9	4	0	1	24	2.5	4	0	1	25
	Peripheral nerve section/rhizotomy	0.1	0	0	0	4	0.5	1	0	0	7	0.6	1	0	0	9
	Excision tumor/neuroma/neurolytic agent/other	1.3	3	0	1	25	2.0	3	0	1	23	3.3	5	0	2	48
	TOTAL - Peripheral Nerve Procedures	6.7	9	0	5	81	16.5	15	0	11	97	23.2	19	1	18	178
Minor/Diagnostic Procedures	Muscle/nerve biopsy	1.0	2	0	0	10	3.6	5	0	2	20	4.6	6	0	3	24
	ICP monitoring	2.0	4	0	1	31	12.5	18	0	6	104	14.5	19	0	7	105
	Tongs/halo application	0.7	3	0	0	34	2.5	4	0	1	30	3.2	5	0	1	45
	Ventriculostomy	2.0	7	0	0	67	14.2	22	0	5	144	16.2	24	0	6	144
	Arteriography	9.0	43	0	0	478	23.3	61	0	1	390	32.3	76	0	2	485
	Injection/Aspiration/Biopsy/Punctures/Other	5.1	6	0	3	43	20.1	27	0	11	168	25.2	29	0	15	176
	TOTAL - Minor/Diagnostic Procedures	19.8	49	0	8	543	76.3	84	0	51	457	96.1	102	0	72	730

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Main Table - Adult Cases)

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Residency Review Committee for Neurological Surgery

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Patient Age=Adult

[Page 8]

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RRC Area	RRC Procedure															
No Operative Procedure	No procedure this hospitalization	1.1	8	0	0	84	5.1	31	0	0	273	6.2	35	0	0	308
	TOTAL - No Operative Procedure	1.1	8	0	0	84	5.1	31	0	0	273	6.2	35	0	0	308
Secondary Codes	Cranial - other	0.1	0	0	0	2	0.6	2	0	0	11	0.7	2	0	0	11
	Spinal	0.1	0	0	0	2	0.4	1	0	0	8	0.4	1	0	0	8
	Peripheral	0.0	0	0	0	1	0.0	0	0	0	0	0.0	0	0	0	1
	TOTAL - Secondary Codes	0.1	0	0	0	2	1.0	2	0	0	15	1.1	3	0	0	15
Unassigned	Unassigned	2.2	5	0	1	36	7.5	10	0	4	57	9.7	11	0	6	61
	TOTAL - Unassigned	2.2	5	0	1	36	7.5	10	0	4	57	9.7	11	0	6	61
Total Adult Cases	TOTAL - Adult Cases	397.7	190	0	369	1,400	667.1	315	2	674	1,582	1,064.7	322	399	1,075	1,992

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Main Table - Pediatric Cases)

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Residency Review Committee for Neurological Surgery

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Patient Age=Pediatric

[Page 9]

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RRC Area	RRC Procedure															
Cranial Procedures - Vascular	Aneurysm - craniotomy	0.3	1	0	0	4	0.3	1	0	0	4	0.6	1	0	0	4
	Aneurysm - endovascular	0.1	0	0	0	4	0.1	0	0	0	3	0.1	0	0	0	4
	AVM/other malformation - craniotomy	0.5	1	0	0	5	1.2	2	0	1	13	1.7	2	0	1	13
	AVM/other malformation - endovascular	0.1	1	0	0	6	0.2	1	0	0	9	0.3	1	0	0	9
	AVM/other malformation - stereotactic radiosurgery	0.0	0	0	0	1	0.0	0	0	0	3	0.1	0	0	0	3
	Hematoma non-traumatic	0.2	1	0	0	4	0.6	1	0	0	4	0.8	1	0	0	6
	Other - vascular (open or endovascular)	0.1	0	0	0	3	0.7	1	0	0	8	0.9	1	0	0	9
	TOTAL - Cranial Procedures - Vascular	1.3	2	0	1	12	3.1	3	0	2	17	4.4	4	0	4	19
	Cranial Procedures - Tumor	Intra-axial and/or extra-axial - craniotomy	3.4	5	0	2	30	10.4	10	0	8	71	13.8	10	1	11
Stereotactic biopsy		0.2	1	0	0	3	0.5	1	0	0	5	0.7	1	0	0	6
Intra-axial and/or extra-axial - radiosurgery		0.0	0	0	0	0	0.1	1	0	0	5	0.1	1	0	0	5
Parasellar/sellar tumor - transsphenoidal		0.4	1	0	0	5	0.9	2	0	0	12	1.4	2	0	1	14
Other - tumor (open surgery, endoscopy, endovasc)		0.3	1	0	0	13	0.8	2	0	0	14	1.1	2	0	0	17
TOTAL - Cranial Procedures- Tumor		4.3	6	0	2	38	12.8	12	0	10	74	17.1	12	2	13	74
Cranial Procedures - Functional	Epilepsy (therapeutic and/or diag) - craniotomy	1.5	4	0	0	27	4.3	6	0	2	40	5.8	8	0	3	67
	Epilepsy, diagnostic - sterotactic implantation	0.0	0	0	0	4	0.1	1	0	0	5	0.1	1	0	0	9
	Epilepsy, therapeutic - other (vagal stimulation)	0.4	2	0	0	16	2.2	3	0	1	24	2.6	4	0	2	24
	Movement disorder - stimulation/stereotactic lesion	0.1	1	0	0	4	0.6	1	0	0	11	0.8	1	0	0	11
	TOTAL - Cranial Procedures- Functional	2.1	5	0	0	32	7.2	8	0	5	49	9.3	10	0	7	81

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[Page 10]

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		Natl Res AVE	Natl Res STD	Natl Res MIN	Natl Res MED	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MIN	Natl Res MED	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MIN	Natl Res MED	Natl Res MAX
RRC Area	RRC Procedure															
Cranial Procedures - Trauma	TOTAL - Cranial Procedures - Trauma	2.2	3	0	1	21	6.7	6	0	6	40	8.8	7	0	8	51
Cranial Procedures - Cranial Recon/Cranioplasty	TOTAL - Cranial Procedures - Cranial Recon/Cranioplasty	1.9	4	0	0	39	9.0	9	0	7	59	10.9	10	0	9	59
Cranial Procedures - Other	TOTAL - Cranial Procedures - Other	1.9	4	0	1	25	9.1	8	0	8	48	11.1	8	0	9	49
CSF Shunting	Initial	2.4	5	0	1	28	16.0	13	0	12	62	18.4	13	0	15	62
	Revision	4.2	7	0	2	41	23.7	20	0	18	114	27.9	20	2	24	125
	Third ventriculostomy	0.9	2	0	0	15	2.0	2	0	1	12	2.9	3	0	2	19
	Other (CSF shunting procedures)	0.1	0	0	0	3	0.6	1	0	0	6	0.7	1	0	0	6
	TOTAL - CSF Shunting	7.6	12	0	3	72	42.3	32	0	35	156	49.9	32	4	45	165
Spinal Procedures - Dysraphism	TOTAL - Spinal Procedures - Dysraphism	1.8	3	0	0	21	7.4	8	0	6	44	9.2	8	0	7	46
Spinal Procedures - Spasticity/Pain	Pump implantation	0.4	1	0	0	9	2.9	4	0	2	22	3.3	4	0	2	23
	Rhizotomy	0.1	0	0	0	2	0.6	1	0	0	12	0.7	1	0	0	12
	TOTAL - Spinal Procedures - Spasticity/Pain	0.5	1	0	0	9	3.5	5	0	2	22	3.9	4	0	3	23
Spinal Procedures - Other	TOTAL - Spinal Procedures - Other	0.7	2	0	0	15	3.5	5	0	2	44	4.2	6	0	2	44
Total Pediatric Cases	TOTAL - Pediatric Cases	24.1	36	0	14	241	104.6	71	0	93	385	128.8	71	13	117	399

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Main Table - Index Cases)

Reporting Period: Total Experience of Residents Completing Programs in 2010-2011

Residency Review Committee for Neurological Surgery

Report Date: October 5, 2011

[Page 1]

Number of Programs in the Nation: 88 Number of Residents in the Nation: 154

	Senior Clinical Year					Other Clinical Years					Total All Years				
	Natl Res AVE	Natl Res STD	Natl Res MIN	Natl Res MED	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MIN	Natl Res MED	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MIN	Natl Res MED	Natl Res MAX
Adult Cases															
Aneurysms - Craniotomy and Endovascular	25.4	20	22	0	154	21.9	23	15	0	149	47.3	32	40	3	218
Brain Tumors (intra-axial and/or extra axial) - Craniotomy	64.5	36	56	0	195	62.7	38	58	0	228	127.2	53	124	36	318
Sellar/Parasellar tumors - Transsphenoidal approach (Endoscopic or Microsurgical)	13.9	12	12	0	73	14.3	13	10	0	72	28.2	18	24	5	108
Trauma - Total Cranial Procedures	26.6	20	24	0	127	43.3	29	40	0	228	69.9	35	66	13	249
Extracranial Vascular Disease -endarterectomy/endovascular	5.1	7	4	0	64	4.1	6	2	0	27	9.3	10	6	0	67
Disc Disease and/or Spondylosis/Trauma with Instrumentation - Lumbar Spine	31.0	25	27	0	132	47.7	40	38	0	237	78.6	50	67	10	288
Peripheral Nerve Disorders - All Types	6.7	9	5	0	81	16.5	15	11	0	97	23.2	19	18	1	178
Total - Adult Cases	173.2	78	165	0	519	210.5	106	204	0	528	383.7	116	380	137	692

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Main Table - Index Cases)

Reporting Period: Total Experience of Residents Completing Programs in 2010-2011

Residency Review Committee for Neurological Surgery

Report Date: October 5, 2011

[Page 2]

Number of Programs in the Nation: 88 Number of Residents in the Nation: 154

	Senior Clinical Year					Other Clinical Years					Total All Years				
	Natl Res AVE	Natl Res STD	Natl Res MIN	Natl Res MED	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MIN	Natl Res MED	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MIN	Natl Res MED	Natl Res MAX
Pediatric Cases															
Brain Tumors (intra-axial and/or extra axial) - Craniotomy	3.4	5	2	0	30	10.4	10	8	0	71	13.8	10	11	1	71
Dysraphism - Spinal Procedures (all types)	1.8	3	0	0	21	7.4	8	6	0	44	9.2	8	7	0	46
Total - Pediatric Cases	5.2	8	2	0	51	17.8	16	15	0	86	23.0	16	20	2	90

	Senior Clinical Year					Other Clinical Years					Total All Years				
	Natl Res AVE	Natl Res STD	Natl Res MIN	Natl Res MED	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MIN	Natl Res MED	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MIN	Natl Res MED	Natl Res MAX
Adult and Pediatric Cases															
Epilepsy (Diagnostic and/or Therapeutic) - Craniotomy	6.5	9	3	0	54	11.0	13	8	0	127	17.5	19	13	0	181
Movement disorder - Stimulation/Stereotactic Lesion	5.4	9	1	0	44	17.7	21	13	0	147	23.1	25	17	0	159
Total - Adult and Pediatric Cases	11.8	14	7	0	81	28.7	27	23	0	155	40.6	33	34	0	189

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Percentiles Table - Adult Cases)

Reporting Period: Total Experience of Residents Completing Programs in 2010-2011

Residency Review Committee for Neurological Surgery

Report Date: October 5, 2011

Patient Age=Adult

[Page 1]

Programs in the Nation: 88 Residents in the Nation: 154

		Senior Clinical Year					Other Clinical Years					Total All Years				
		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															
Cranial Procedures - Vascular	Aneurysm - craniotomy	5	11	20	27	47	2	7	12	19	38	11	23	33	47	74
	Aneurysm - endovascular	0	0	0	0	8	0	0	0	3	15	0	0	1	6	25
	AVM/other malformation - craniotomy	1	3	5	7	12	0	1	3	5	9	2	6	8	10	20
	AVM/other malformation - endovascular	0	0	0	0	1	0	0	0	1	4	0	0	0	1	6
	AVM/other malformation - stereotactic radiosurgery	0	0	0	0	1	0	0	0	0	3	0	0	0	1	3
	Hematoma non-traumatic	1	3	6	9	17	1	4	7	12	22	4	9	14	20	36
	Other - vascular (open or endovascular)	0	1	2	4	6	0	1	3	5	10	1	3	6	9	14
	TOTAL - Cranial Procedures - Vascular	12	26	35	50	81	9	20	34	48	82	32	57	72	102	144
Cranial Procedures - Tumor	Intra-axial and/or extra-axial - craniotomy	30	46	56	75	105	18	41	58	77	106	67	94	124	150	191
	Stereotactic biopsy	0	2	4	6	12	1	4	7	11	20	4	7	12	18	26
	Intra-axial and/or extra-axial - radiosurgery	0	0	0	1	5	0	0	1	4	22	0	0	2	7	26
	Parasellar/sellar tumor - transsphenoidal	3	7	12	16	29	2	6	10	17	30	10	17	24	31	53
	Other - tumor (open surgery, endoscopy, endovasc)	0	1	2	4	10	0	1	3	5	12	1	4	7	10	17
	TOTAL - Cranial Procedures- Tumor	43	64	79	105	147	28	62	99	126	168	100	146	183	219	296

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Percentiles Table - Adult Cases)

Reporting Period: Total Experience of Residents Completing Programs in 2010-2011

Residency Review Committee for Neurological Surgery

Report Date: October 5, 2011

Patient Age=Adult

[Page 2]

Programs in the Nation: 88 Residents in the Nation: 154

		Senior Clinical Year					Other Clinical Years					Total All Years				
		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															
Cranial Procedures - Functional	Epilepsy (therapeutic and/or diag) - craniotomy	0	1	3	5	12	0	2	5	7	15	2	5	8	13	25
	Epilepsy, diagnostic - stereotactic implantation	0	0	0	0	1	0	0	0	1	2	0	0	0	1	3
	Epilepsy, therapeutic - other (vagal stimulation)	0	0	0	1	3	0	1	2	4	11	0	1	3	5	12
	Movement disorder - stimulation/stereotactic lesion	0	0	1	4	15	0	4	11	21	39	2	9	16	25	49
	Pain - stimulation	0	0	0	0	1	0	0	0	1	4	0	0	0	1	4
	Percutaneous lesion creation	0	0	0	1	3	0	0	1	2	6	0	0	1	4	8
	Craniotomy/craniectomy	0	1	3	6	12	0	1	2	5	11	1	4	6	11	21
	Stereotactic radiosurgery (functional)	0	0	0	0	0	0	0	0	0	3	0	0	0	1	3
	Other (functional)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL - Cranial Procedures- Functional		2	8	13	20	39	4	17	31	49	77	16	32	46	66
Cranial Procedures - Trauma	Depressed skull fracture/penetrating wound	0	1	2	4	7	0	2	3	5	9	1	4	6	9	14
	Hematoma	4	14	19	28	41	11	24	33	43	68	27	43	54	68	98
	Other (trauma)	0	0	1	1	3	0	0	1	2	5	0	1	2	3	8
	TOTAL - Cranial Procedures - Trauma	6	15	24	33	49	13	27	40	51	74	34	52	66	80	107

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Percentiles Table - Adult Cases)

Reporting Period: Total Experience of Residents Completing Programs in 2010-2011

Residency Review Committee for Neurological Surgery

Report Date: October 5, 2011

Patient Age=Adult

[Page 3]

Programs in the Nation: 88 Residents in the Nation: 154

		Senior Clinical Year					Other Clinical Years					Total All Years				
		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															
Cranial Procedures - Cranial Recon/Cranioplasty	Craniosynostosis	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
	Craniofacial reconstruction	0	0	0	0	1	0	0	0	1	1	0	0	0	1	2
	Cranioplasty	0	1	3	5	9	1	3	6	11	16	3	6	10	15	21
	TOTAL - Cranial Procedures - Cranial Recon/Cranioplasty	0	2	3	5	10	1	4	7	12	17	3	8	12	17	23
Cranial Procedures - Other	Infection/cyst/orbit/skull lesion/dural-CSF/Chiari	3	6	9	12	18	5	10	15	20	31	12	18	24	30	46
	TOTAL - Cranial Procedures - Other	3	6	9	12	18	5	10	15	20	31	12	18	24	30	46
Extracranial/Intracranial Occlusive Vascular Dis	Carotid endarterectomy	0	1	3	6	10	0	0	1	3	8	0	3	5	9	17
	Carotid angioplasty/stenting (endovascular)	0	0	0	0	1	0	0	0	0	3	0	0	0	1	6
	EC/IC bypass	0	0	0	1	4	0	0	0	1	2	0	0	1	3	5
	Other vascular -patch/bypass/ligation/other	0	0	0	0	1	0	0	0	0	1	0	0	0	1	2
	TOTAL - Extracranial/Intracranial Occlusive Vascular Dis	0	3	5	8	16	0	1	3	6	13	2	6	9	13	27

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Percentiles Table - Adult Cases)

Reporting Period: Total Experience of Residents Completing Programs in 2010-2011

Residency Review Committee for Neurological Surgery

Report Date: October 5, 2011

Patient Age=Adult

[Page 4] Programs in the Nation: 88 Residents in the Nation: 154

		Senior Clinical Year					Other Clinical Years					Total All Years				
		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															
CSF Shunting	Initial	2	6	11	16	27	10	17	24	34	53	19	27	36	49	75
	Revision	2	4	7	10	16	5	12	17	24	42	12	19	27	36	49
	Third ventriculostomy	0	0	1	2	4	0	1	1	2	5	1	2	3	5	8
	Other (CSF shunting procedures)	0	0	0	0	0	0	0	0	1	2	0	0	0	1	3
	TOTAL - CSF Shunting	7	13	20	29	42	15	34	47	64	93	37	57	73	85	121
Spinal Procedures - Disc and/or Spondylosis	Cervical - discectomy/decompression	2	6	12	18	40	5	13	24	37	66	15	26	40	58	89
	Cervical - w/ instrumentation/fusion	3	11	20	29	55	6	16	32	53	80	13	37	58	81	119
	Thoracic - discectomy/decompression	0	1	2	3	5	0	1	3	4	7	1	3	5	7	10
	Thoracic - w/ instrumentation/fusion	0	0	1	3	6	0	1	2	3	6	1	2	4	6	11
	Lumbar/sacral - discectomy/decompression	9	18	28	41	66	15	45	61	87	136	48	69	95	122	185
	Lumbar/sacral - w/ instrumentation/fusion	2	10	19	27	50	6	16	28	45	85	18	32	46	72	119
	TOTAL - Spinal Procedures - Disc and/or Spondylosis	29	66	92	123	181	44	119	157	239	344	140	197	262	342	468

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Percentiles Table - Adult Cases)

Reporting Period: Total Experience of Residents Completing Programs in 2010-2011

Residency Review Committee for Neurological Surgery

Report Date: October 5, 2011

Patient Age=Adult

[Page 5]

Programs in the Nation: 88 Residents in the Nation: 154

		Senior Clinical Year					Other Clinical Years					Total All Years				
		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															
Spinal Procedures - Tumor/Vascular Lesion	Primary tumor resection	2	4	7	9	14	1	3	7	9	14	7	10	14	19	24
	Primary tumor - resection w/instrumentation/fusion	0	0	0	1	3	0	0	0	1	4	0	0	1	2	6
	Metastatic tumor resection	0	1	2	3	7	0	1	2	4	7	1	3	5	8	13
	Metastatic tumor resection w/instrumentation/fusion	0	0	1	2	5	0	0	1	2	7	0	1	2	5	10
	Vascular lesion	0	0	0	1	2	0	0	0	0	1	0	0	1	1	2
	Vascular lesion resection w/instrumentation/fusion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Radiosurgery - tumor/vascular lesion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Other tumor/vascular lesion (open or endovascular)	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
	TOTAL - Spinal Procedures - Tumor/Vascular Lesion		5	9	12	16	27	3	7	13	18	30	14	19	26	32

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Percentiles Table - Adult Cases)

Reporting Period: Total Experience of Residents Completing Programs in 2010-2011

Residency Review Committee for Neurological Surgery

Report Date: October 5, 2011

Patient Age=Adult

[Page 6]

Programs in the Nation: 88 Residents in the Nation: 154

		Senior Clinical Year					Other Clinical Years					Total All Years				
		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															
Spinal Procedures - Trauma	Cervical - operative decompression/reduction	0	0	0	1	4	0	0	1	2	4	0	1	2	3	6
	Cervical - with instrumentation/fusion	0	2	5	8	13	1	3	5	9	17	2	8	12	16	30
	Thoracic - operative decompression/reduction	0	0	0	1	2	0	0	0	1	2	0	0	1	1	4
	Thoracic - with instrumentation/fusion	0	1	2	4	9	0	1	3	5	9	1	4	6	8	14
	Lumbar/sacral - operative decompression/reduction	0	0	0	1	2	0	0	0	1	2	0	0	1	1	4
	Lumbar/sacral - with instrumentation/fusion	0	0	1	3	5	0	1	2	4	9	1	3	4	7	12
	TOTAL - Spinal Procedures- Trauma		2	6	12	19	32	2	8	15	19	36	7	21	27	38
Spinal Procedures - Dysraphism	Spinal dysraphism	0	0	0	1	2	0	0	1	2	4	0	1	2	3	6
	TOTAL - Spinal Procedures - Dysraphism	0	0	0	1	2	0	0	1	2	4	0	1	2	3	6
Spinal Procedures - Spasticity/Pain	Pump implantation	0	0	1	2	5	0	2	4	8	18	1	3	6	10	23
	Rhizotomy	0	0	0	0	1	0	0	0	1	0	0	0	0	2	
	Stimulation	0	0	1	2	6	0	1	4	9	22	0	3	6	11	26
	TOTAL - Spinal Procedures - Spasticity/Pain	0	1	2	5	11	1	5	9	18	45	3	7	13	23	49

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Percentiles Table - Adult Cases)

Reporting Period: Total Experience of Residents Completing Programs in 2010-2011

Residency Review Committee for Neurological Surgery

Report Date: October 5, 2011

Patient Age=Adult

[Page 7]		Programs in the Nation: 88		Residents in the Nation: 154		Senior Clinical Year					Other Clinical Years					Total All Years				
		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																			
Spinal Procedures - Other	Vertebroplasty/kyphoplasty	0	0	0	1	3	0	0	1	3	7	0	0	2	5	10				
	Non-neoplastic lesions/deformity/infection/other	2	4	7	10	15	3	8	13	18	27	11	16	20	25	37				
	Non-neoplastic lesions - w/instrumentation/fusion	0	0	0	1	3	0	0	1	2	3	0	1	2	3	5				
	TOTAL - Spinal Procedures - Other	2	6	9	12	18	4	11	17	23	35	14	20	26	32	46				
Peripheral Nerve Procedures	Neurolysis/transposition	0	1	3	5	11	1	3	8	14	26	2	7	13	20	30				
	Nerve repair	0	0	0	0	1	0	0	0	0	3	0	0	0	1	3				
	Sympathectomy	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1				
	Nerve stimulation	0	0	0	0	1	0	0	1	2	5	0	0	1	3	6				
	Peripheral nerve section/rhizotomy	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2				
	Excision tumor/neuroma/neurolytic agent/other	0	0	1	1	3	0	0	1	2	5	0	1	2	4	7				
	TOTAL - Peripheral Nerve Procedures	0	2	5	7	14	2	8	11	20	37	4	13	18	30	44				
	Minor/Diagnostic Procedures	Muscle/nerve biopsy	0	0	0	1	3	0	0	2	4	11	0	1	3	5	15			
ICP monitoring		0	0	1	2	6	0	3	6	12	26	1	4	7	15	33				
Tongs/halo application		0	0	0	1	2	0	0	1	2	7	0	0	1	3	9				
Ventriculostomy		0	0	0	1	4	0	1	5	16	43	0	2	6	16	44				
Arteriography		0	0	0	0	21	0	0	1	6	66	0	0	2	19	80				
Injection/Aspiration/Biopsy/Punctures/Other		0	2	3	6	11	1	6	11	20	52	4	10	15	25	58				
TOTAL - Minor/Diagnostic Procedures		1	5	8	16	37	7	30	51	83	174	15	41	72	102	192				

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Percentiles Table - Adult Cases)

Reporting Period: Total Experience of Residents Completing Programs in 2010-2011

Residency Review Committee for Neurological Surgery

Report Date: October 5, 2011

Patient Age=Adult

		Senior Clinical Year					Other Clinical Years					Total All Years				
		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															
No Operative Procedure	No procedure this hospitalization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL - No Operative Procedure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Secondary Codes	Cranial - other	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
	Spinal	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
	Peripheral	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL - Secondary Codes	0	0	0	0	0	0	0	0	0	2	0	0	0	1	3
Unassigned	Unassigned	0	0	1	2	6	0	2	4	9	19	0	3	6	10	24
	TOTAL - Unassigned	0	0	1	2	6	0	2	4	9	19	0	3	6	10	24
Total Adult Cases	TOTAL - Adult Cases	223	310	369	448	604	237	508	674	813	1,078	648	906	1,075	1,198	1,489

[Page 8]

Programs in the Nation: 88 Residents in the Nation: 154

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Percentiles Table - Pediatric Cases)

Reporting Period: Total Experience of Residents Completing Programs in 2010-2011

Residency Review Committee for Neurological Surgery

Report Date: October 5, 2011

Patient Age=Pediatric

[Page 9]

Programs in the Nation: 88 Residents in the Nation: 154

		Senior Clinical Year					Other Clinical Years					Total All Years				
		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															
Cranial Procedures - Vascular	Aneurysm - craniotomy	0	0	0	0	1	0	0	0	0	1	0	0	0	1	2
	Aneurysm - endovascular	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AVM/other malformation - craniotomy	0	0	0	1	2	0	0	1	2	3	0	1	1	2	4
	AVM/other malformation - endovascular	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
	AVM/other malformation - stereotactic radiosurgery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Hematoma non-traumatic	0	0	0	0	1	0	0	0	1	2	0	0	0	1	2
	Other - vascular (open or endovascular)	0	0	0	0	1	0	0	0	1	2	0	0	0	1	2
	TOTAL - Cranial Procedures - Vascular	0	0	1	1	4	0	1	2	4	7	1	2	4	5	8
	Cranial Procedures - Tumor	Intra-axial and/or extra-axial - craniotomy	0	0	2	4	9	1	5	8	12	21	4	8	11	16
Stereotactic biopsy		0	0	0	0	1	0	0	0	0	2	0	0	0	1	3
Intra-axial and/or extra-axial - radiosurgery		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parasellar/sellar tumor - transsphenoidal		0	0	0	0	1	0	0	0	1	3	0	0	1	2	3
Other - tumor (open surgery, endoscopy, endovasc)		0	0	0	0	1	0	0	0	1	2	0	0	0	1	3
TOTAL - Cranial Procedures- Tumor		0	0	2	5	10	1	6	10	15	26	6	10	13	19	32
Cranial Procedures - Functional	Epilepsy (therapeutic and/or diag) - craniotomy	0	0	0	0	4	0	0	2	5	12	0	1	3	6	15
	Epilepsy, diagnostic - sterotactic implantation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Epilepsy, therapeutic - other (vagal stimulation)	0	0	0	0	1	0	0	1	2	5	0	0	2	3	7
	Movement disorder - stimulation/stereotactic lesion	0	0	0	0	0	0	0	0	1	2	0	0	0	1	2
	TOTAL - Cranial Procedures- Functional	0	0	0	1	6	0	2	5	9	17	1	3	7	11	24

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Percentiles Table - Pediatric Cases)

Reporting Period: Total Experience of Residents Completing Programs in 2010-2011

Residency Review Committee for Neurological Surgery

Report Date: October 5, 2011

Patient Age=Pediatric

[Page 10]

Programs in the Nation: 88 Residents in the Nation: 154

		Senior Clinical Year					Other Clinical Years					Total All Years				
		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															
Cranial Procedures - Trauma	TOTAL - Cranial Procedures - Trauma	0	0	1	3	6	1	3	6	8	14	2	5	8	11	17
Cranial Procedures - Cranial Recon/Cranioplasty	TOTAL - Cranial Procedures - Cranial Recon/Cranioplasty	0	0	0	1	5	1	4	7	10	18	3	5	9	12	21
Cranial Procedures - Other	TOTAL - Cranial Procedures - Other	0	0	1	2	5	1	4	8	11	20	3	6	9	13	23
CSF Shunting	Initial	0	0	1	2	7	3	8	12	20	34	6	10	15	21	38
	Revision	0	0	2	5	11	5	12	18	32	47	8	15	24	35	52
	Third ventriculostomy	0	0	0	1	2	0	0	1	3	5	0	1	2	3	6
	Other (CSF shunting procedures)	0	0	0	0	0	0	0	0	1	2	0	0	0	1	2
	TOTAL - CSF Shunting	0	0	3	8	19	11	24	35	54	89	16	28	45	60	97
Spinal Procedures - Dysraphism	TOTAL - Spinal Procedures - Dysraphism	0	0	0	2	6	1	3	6	9	15	2	5	7	11	17
Spinal Procedures - Spasticity/Pain	Pump implantation	0	0	0	0	1	0	1	2	3	7	0	1	2	3	8
	Rhizotomy	0	0	0	0	0	0	0	0	0	2	0	0	0	1	2
	TOTAL - Spinal Procedures - Spasticity/Pain	0	0	0	0	1	0	1	2	4	9	0	1	3	5	10
Spinal Procedures - Other	TOTAL - Spinal Procedures - Other	0	0	0	1	2	0	1	2	4	8	0	1	2	5	9
Total Pediatric Cases	TOTAL - Pediatric Cases	0	3	14	28	56	23	61	93	129	206	50	83	117	154	220

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Percentiles Table - Index Cases)

Reporting Period: Total Experience of Residents Completing Programs in 2010-2011

Residency Review Committee for Neurological Surgery

Report Date: October 5, 2011

[Page 1]

Programs in the Nation: 88 Residents in the Nation: 154

	Senior Clinical Year					Other Clinical Years					Total All Years				
	Resident Percentiles					Resident Percentiles					Resident Percentiles				
	10	30	50	70	90	10	30	50	70	90	10	30	50	70	90
Adult Cases															
Aneurysms - Craniotomy and Endovascular	5	13	22	30	52	2	9	15	24	45	12	29	40	59	84
Brain Tumors (intra-axial and/or extra axial) - Craniotomy	30	46	56	75	105	18	41	58	77	106	67	94	124	150	191
Sellar/Parasellar tumors - Transsphenoidal approach (Endoscopic or Microsurgical)	3	7	12	16	29	2	6	10	17	30	10	17	24	31	53
Trauma - Total Cranial Procedures	6	15	24	33	49	13	27	40	51	74	34	52	66	80	107
Extracranial Vascular Disease -endarterectomy/endovascular	0	2	4	6	10	0	1	2	5	12	1	4	6	11	22
Disc Disease and/or Spondylosis/Trauma with Instrumentation - Lumbar Spine	4	16	27	38	62	10	23	38	57	95	28	47	67	94	138
Peripheral Nerve Disorders - All Types	0	2	5	7	14	2	8	11	20	37	4	13	18	30	44
Total - Adult Cases	95	138	165	197	255	75	155	204	250	349	217	318	380	441	536

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Percentiles Table - Index Cases)

Reporting Period: Total Experience of Residents Completing Programs in 2010-2011

Residency Review Committee for Neurological Surgery

Report Date: October 5, 2011

[Page 2]

Programs in the Nation: 88 Residents in the Nation: 154

	Senior Clinical Year					Other Clinical Years					Total All Years				
	Resident Percentiles					Resident Percentiles					Resident Percentiles				
	10	30	50	70	90	10	30	50	70	90	10	30	50	70	90
Pediatric Cases															
Brain Tumors (intra-axial and/or extra axial) - Craniotomy	0	0	2	4	9	1	5	8	12	21	4	8	11	16	28
Dysraphism - Spinal Procedures (all types)	0	0	0	2	6	1	3	6	9	15	2	5	7	11	17
Total - Pediatric Cases	0	0	2	6	13	2	10	15	21	30	8	14	20	24	42

	Senior Clinical Year					Other Clinical Years					Total All Years				
	Resident Percentiles					Resident Percentiles					Resident Percentiles				
	10	30	50	70	90	10	30	50	70	90	10	30	50	70	90
Adult and Pediatric Cases															
Epilepsy (Diagnostic and/or Therapeutic) - Craniotomy	0	2	3	6	20	1	5	8	13	22	3	8	13	21	35
Movement disorder - Stimulation/Stereotactic Lesion	0	0	1	5	15	0	4	13	21	41	2	10	17	26	50
Total - Adult and Pediatric Cases	0	3	7	13	30	3	14	23	34	58	11	22	34	44	83