



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 2011-2012

Residency Review Committee for Neurological Surgery

Report Date: October 23, 2012

Patient Age=Adult

[Page 1]

Number of Programs in the Nation: 87 Number of Residents in the Nation: 147

		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	17	0	18	71	16.7	15	0	12	76	39.0	23	3	37	131
	Aneurysm - endovascular	3.3	8	0	0	50	7.8	21	0	1	124	11.0	24	0	2	162
	AVM/other malformation - craniotomy	5.9	5	0	5	25	4.0	4	0	3	24	9.9	7	0	8	34
	AVM/other malformation - endovascular	0.8	2	0	0	16	2.3	7	0	0	64	3.1	8	0	0	64
	AVM/other malformation - stereotactic radiosurgery	0.2	1	0	0	4	1.1	4	0	0	36	1.3	4	0	0	36
	Hematoma non-traumatic	7.3	8	0	5	42	10.3	11	0	6	71	17.5	15	0	14	85
	Other - vascular (open or endovascular)	2.9	3	0	2	20	5.8	12	0	3	112	8.7	12	0	6	112
	TOTAL - Cranial Procedures - Vascular	42.6	30	0	37	152	47.9	46	0	39	283	90.5	56	8	77	285
	Cranial Procedures - Tumor	Intra-axial and/or extra-axial - craniotomy	69.0	37	0	65	171	69.5	46	0	65	244	138.6	55	40	133
Stereotactic biopsy		4.8	5	0	3	32	9.3	8	0	8	43	14.0	10	0	12	63
Intra-axial and/or extra-axial - radiosurgery		1.9	6	0	0	38	8.2	26	0	0	195	10.1	27	0	1	195
Parasellar/sellar tumor - transsphenoidal		15.8	14	0	12	81	15.8	14	0	12	61	31.5	19	3	27	109
Other - tumor (open surgery, endoscopy, endovasc)		4.0	5	0	2	24	4.6	6	0	3	37	8.6	8	0	6	42
TOTAL - Cranial Procedures- Tumor		95.5	50	0	87	218	107.3	68	0	97	340	202.8	72	55	195	468

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[Page 2]

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RRC Area	RRC Procedure															
Cranial Procedures - Functional	Epilepsy (therapeutic and/or diag) - craniotomy	4.8	6	0	3	31	6.9	9	0	5	63	11.8	11	0	9	63
	Epilepsy, diagnostic - stereotactic implantation	0.2	1	0	0	6	0.6	1	0	0	10	0.8	2	0	0	10
	Epilepsy, therapeutic - other (vagal stimulation)	1.1	2	0	0	10	2.8	4	0	1	19	3.9	5	0	2	23
	Movement disorder - stimulation/stereotactic lesion	6.0	10	0	3	79	18.1	22	0	11	182	24.1	25	0	16	199
	Pain - stimulation	0.2	1	0	0	3	0.7	1	0	0	7	0.9	2	0	0	9
	Percutaneous lesion creation	1.3	3	0	0	28	2.0	4	0	1	30	3.3	5	0	2	31
	Craniotomy/craniectomy	5.4	6	0	4	36	5.0	7	0	3	41	10.4	9	0	8	50
	Stereotactic radiosurgery (functional)	0.3	1	0	0	10	1.7	6	0	0	46	2.0	6	0	0	46
	Other (functional)	0.1	0	0	0	3	0.1	0	0	0	5	0.1	1	0	0	5
	TOTAL - Cranial Procedures- Functional	19.4	16	0	15	104	37.9	32	0	31	189	57.3	36	6	52	220
Cranial Procedures - Trauma	Depressed skull fracture/penetrating wound	2.3	2	0	2	14	4.0	5	0	2	31	6.3	6	0	5	40
	Hematoma	23.3	17	0	21	88	37.8	31	0	32	253	61.1	36	15	55	277
	Other (trauma)	0.9	1	0	0	9	2.4	4	0	1	37	3.3	5	0	2	41
	TOTAL - Cranial Procedures - Trauma	26.5	19	0	24	95	44.2	36	1	38	293	70.7	41	17	65	319

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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	2	0.2	1	0	0	3	0.3	1	0	0	5
	Craniofacial reconstruction	0.4	1	0	0	8	0.5	1	0	0	4	0.9	1	0	1	8
	Cranioplasty	4.5	5	0	3	29	8.9	8	0	7	48	13.3	10	0	11	65
	TOTAL - Cranial Procedures - Cranial Recon/Cranioplasty	5.0	5	0	3	29	9.6	8	0	8	48	14.6	10	1	12	65
Cranial Procedures - Other	Misc Procs (open, endoscopy, or endovascular)	10.6	8	0	9	33	15.9	10	0	15	52	26.5	11	5	26	59
	TOTAL - Cranial Procedures - Other	10.6	8	0	9	33	15.9	10	0	15	52	26.5	11	5	26	59
Extracranial/Intracranial Occlusive Vascular Dis	Carotid endarterectomy	4.6	5	0	3	23	3.3	5	0	2	30	8.0	7	0	6	40
	Carotid angioplasty/stenting (endovascular)	1.0	5	0	0	36	2.7	9	0	0	61	3.6	11	0	0	67
	EC/IC bypass	1.4	4	0	0	32	0.9	2	0	0	12	2.4	4	0	1	36
	Other vascular -patch/bypass/ligation/other	0.3	1	0	0	4	0.4	1	0	0	6	0.7	1	0	0	7
	TOTAL - Extracranial/Intracranial Occlusive Vascular Dis	7.4	10	0	5	58	7.3	11	0	4	75	14.6	16	0	10	79

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[Page 4]

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RRC Area	RRC Procedure															
CSF Shunting	Initial	13.8	11	0	11	54	26.7	15	0	26	81	40.5	18	3	38	97
	Revision	8.4	7	0	7	38	19.4	14	0	17	84	27.8	15	1	25	107
	Third ventriculostomy	2.0	3	0	1	20	2.4	3	0	2	18	4.4	4	0	4	25
	Other (CSF shunting procedures)	0.2	1	0	0	9	0.7	2	0	0	21	0.9	3	0	0	25
	TOTAL - CSF Shunting	24.4	18	0	21	76	49.3	28	0	46	160	73.7	31	4	71	236
Spinal Procedures - Disc and/or Spondylosis	Cervical - discectomy/decompression	18.5	18	0	13	86	32.6	28	0	24	136	51.0	35	4	41	196
	Cervical - w/ instrumentation/fusion	23.5	20	0	17	89	36.0	28	0	30	125	59.6	37	4	51	173
	Thoracic - discectomy/decompression	2.7	3	0	2	17	3.5	4	0	3	28	6.2	5	0	5	31
	Thoracic - w/ instrumentation/fusion	2.8	3	0	2	16	2.9	3	0	2	13	5.8	4	0	5	21
	Lumbar/sacral - discectomy/decompression	38.6	38	0	29	296	72.4	52	0	60	328	111.0	66	9	97	487
	Lumbar/sacral - w/ instrumentation/fusion	23.5	23	0	16	135	34.3	32	0	26	234	57.8	44	2	47	295
	TOTAL - Spinal Procedures - Disc and/or Spondylosis	109.6	80	0	96	513	181.8	116	1	165	536	291.4	143	44	269	866

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[Page 5]

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RRC Area	RRC Procedure															
Spinal Procedures - Tumor/Vascular Lesion	Primary tumor resection	7.3	6	0	6	31	7.0	6	0	6	29	14.3	8	2	13	39
	Primary tumor - resection w/instrumentation/fusion	0.7	2	0	0	17	1.2	3	0	1	31	2.0	4	0	1	31
	Metastatic tumor resection	3.6	5	0	2	42	3.1	4	0	2	18	6.7	7	0	5	42
	Metastatic tumor resection w/instrumentation/fusion	2.4	6	0	1	48	2.1	4	0	1	30	4.5	8	0	2	49
	Vascular lesion	0.7	1	0	0	6	0.5	1	0	0	4	1.2	1	0	1	7
	Vascular lesion resection w/instrumentation/fusion	0.0	0	0	0	1	0.0	0	0	0	0	0.0	0	0	0	1
	Radiosurgery - tumor/vascular lesion	0.0	0	0	0	1	0.1	1	0	0	5	0.1	1	0	0	5
	Other tumor/vascular lesion (open or endovascular)	0.0	0	0	0	1	0.1	0	0	0	2	0.1	0	0	0	2
	TOTAL - Spinal Procedures - Tumor/Vascular Lesion	14.7	14	0	12	101	14.1	12	0	11	81	28.9	18	4	25	104

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[Page 6]

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RRC Area	RRC Procedure															
Spinal Procedures - Trauma	Cervical - operative decompression/reduction	1.4	2	0	1	17	1.6	4	0	1	35	3.1	5	0	2	37
	Cervical - with instrumentation/fusion	5.9	7	0	4	63	5.6	6	0	4	39	11.5	10	0	9	65
	Thoracic - operative decompression/reduction	0.8	1	0	0	8	0.7	1	0	0	9	1.4	2	0	1	13
	Thoracic - with instrumentation/fusion	2.8	4	0	2	31	3.1	4	0	2	19	6.0	6	0	5	32
	Lumbar/sacral - operative decompression/reduction	0.7	1	0	0	8	0.7	1	0	0	7	1.4	2	0	1	11
	Lumbar/sacral - with instrumentation/fusion	2.6	5	0	1	50	2.8	3	0	2	18	5.4	6	0	4	50
	TOTAL - Spinal Procedures- Trauma	14.2	16	0	11	149	14.5	14	0	10	76	28.7	22	1	24	152
Spinal Procedures - Dysraphism	Spinal dysraphism	0.9	1	0	0	6	1.3	2	0	1	13	2.3	2	0	2	18
	TOTAL - Spinal Procedures - Dysraphism	0.9	1	0	0	6	1.3	2	0	1	13	2.3	2	0	2	18
Spinal Procedures - Spasticity/Pain	Pump implantation	2.6	4	0	1	26	8.5	11	0	5	71	11.1	12	0	7	79
	Rhizotomy	0.2	0	0	0	3	0.4	1	0	0	10	0.5	1	0	0	10
	Stimulation	3.0	5	0	1	27	8.6	11	0	4	83	11.6	13	0	7	100
	TOTAL - Spinal Procedures - Spasticity/Pain	5.8	8	0	2	43	17.4	21	0	11	164	23.3	24	1	17	189

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	17	2.7	4	0	1	24	3.8	6	0	2	32
	Non-neoplastic lesions/deformity/infection/other	8.6	9	0	7	71	12.9	9	0	12	56	21.5	13	3	20	93
	Non-neoplastic lesions - w/instrumentation/fusion	0.6	1	0	0	8	1.2	2	0	0	15	1.8	3	0	1	16
	TOTAL - Spinal Procedures - Other	10.3	10	0	8	71	16.7	12	0	15	64	27.1	16	4	24	105
Peripheral Nerve Procedures	Neurolysis/transposition	4.9	6	0	3	39	10.4	11	0	7	65	15.3	13	0	12	66
	Nerve repair	0.4	1	0	0	6	0.7	1	0	0	7	1.1	2	0	0	10
	Sympathectomy	0.1	0	0	0	4	0.1	0	0	0	3	0.2	1	0	0	4
	Nerve stimulation	0.8	2	0	0	9	2.0	4	0	0	23	2.8	4	0	1	25
	Peripheral nerve section/rhizotomy	0.1	0	0	0	4	0.4	1	0	0	12	0.5	1	0	0	12
	Excision tumor/neuroma/neurolytic agent/other	1.1	2	0	0	11	1.4	2	0	1	10	2.5	3	0	2	13
	TOTAL - Peripheral Nerve Procedures	7.3	7	0	5	39	15.0	13	0	13	72	22.3	14	1	21	82
Minor/Diagnostic Procedures	Muscle/nerve biopsy	1.5	3	0	0	15	3.8	6	0	1	33	5.3	7	0	2	33
	ICP monitoring	1.8	5	0	0	47	12.7	18	0	5	112	14.5	19	0	7	113
	Tongs/halo application	0.5	1	0	0	11	2.5	5	0	0	30	3.1	5	0	1	30
	Ventriculostomy	2.4	7	0	0	74	13.4	23	0	4	158	15.8	26	0	5	159
	Arteriography	6.8	19	0	0	117	25.9	65	0	1	437	32.7	73	0	2	437
	Injection/Aspiration/Biopsy/Punctures/Other	5.5	7	0	3	47	19.9	46	0	8	508	25.4	50	0	12	548
	TOTAL - Minor/Diagnostic Procedures	18.5	27	0	9	153	78.2	103	0	40	704	96.7	113	1	54	762

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

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Residency Review Committee for Neurological Surgery

Report Date: October 23, 2012

Patient Age=Adult

[Page 8]

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RRC Area	RRC Procedure															
No Operative Procedure	No procedure this hospitalization	0.6	8	0	0	92	5.4	42	0	0	484	6.0	43	0	0	484
	TOTAL - No Operative Procedure	0.6	8	0	0	92	5.4	42	0	0	484	6.0	43	0	0	484
Secondary Codes	Cranial - other	0.0	0	0	0	1	0.3	1	0	0	8	0.4	1	0	0	8
	Spinal	0.0	0	0	0	1	0.2	1	0	0	3	0.3	1	0	0	3
	Peripheral	0.0	0	0	0	0	0.0	0	0	0	1	0.0	0	0	0	1
	TOTAL - Secondary Codes	0.1	0	0	0	2	0.6	1	0	0	8	0.7	1	0	0	8
Unassigned	Unassigned	2.2	4	0	1	21	7.3	15	0	3	133	9.5	16	0	5	137
	TOTAL - Unassigned	2.2	4	0	1	21	7.3	15	0	3	133	9.5	16	0	5	137
Total Adult Cases	TOTAL - Adult Cases	415.6	203	0	401	1,027	671.8	351	3	667	1,953	1,087.4	334	246	1,068	1,980

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

Reporting Period: Total Experience of Residents Completing Programs in 2011-2012

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	0.1	0	0	0	3	0.2	1	0	0	2	0.4	1	0	0	3
	Aneurysm - endovascular	0.0	0	0	0	2	0.1	0	0	0	2	0.1	0	0	0	3
	AVM/other malformation - craniotomy	0.4	1	0	0	6	0.8	1	0	0	6	1.3	1	0	1	7
	AVM/other malformation - endovascular	0.1	0	0	0	4	0.3	1	0	0	11	0.4	1	0	0	11
	AVM/other malformation - stereotactic radiosurgery	0.0	0	0	0	0	0.2	1	0	0	5	0.2	1	0	0	5
	Hematoma non-traumatic	0.2	1	0	0	5	0.5	1	0	0	6	0.7	1	0	0	6
	Other - vascular (open or endovascular)	0.1	1	0	0	8	0.4	1	0	0	5	0.5	1	0	0	8
	TOTAL - Cranial Procedures - Vascular	1.0	2	0	0	10	2.5	3	0	2	20	3.5	3	0	3	21
Cranial Procedures - Tumor	Intra-axial and/or extra-axial - craniotomy	4.3	6	0	2	28	9.0	9	0	8	48	13.4	10	0	11	63
	Stereotactic biopsy	0.2	1	0	0	5	0.6	1	0	0	5	0.8	1	0	0	9
	Intra-axial and/or extra-axial - radiosurgery	0.0	0	0	0	0	0.1	1	0	0	9	0.1	1	0	0	9
	Parasellar/sellar tumor - transsphenoidal	0.6	1	0	0	9	0.7	1	0	0	5	1.3	1	0	1	9
	Other - tumor (open surgery, endoscopy, endovasc)	0.2	0	0	0	3	0.9	4	0	0	48	1.1	4	0	0	48
	TOTAL - Cranial Procedures- Tumor	5.3	7	0	2	37	11.4	11	0	9	54	16.7	12	0	14	74
Cranial Procedures - Functional	Epilepsy (therapeutic and/or diag) - craniotomy	1.3	3	0	0	20	3.7	7	0	1	63	5.0	7	0	3	63
	Epilepsy, diagnostic - stereotactic implantation	0.0	0	0	0	1	0.0	0	0	0	2	0.1	0	0	0	2
	Epilepsy, therapeutic - other (vagal stimulation)	0.4	1	0	0	10	1.8	4	0	0	25	2.2	4	0	1	35
	Movement disorder - stimulation/stereotactic lesion	0.1	1	0	0	4	0.6	1	0	0	10	0.8	2	0	0	10
	TOTAL - Cranial Procedures- Functional	1.8	4	0	0	20	6.2	9	0	3	65	8.0	9	0	5	65

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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	1.9	3	0	1	14	6.6	7	0	5	61	8.5	8	0	7	64
Cranial Procedures - Cranial Recon/Cranioplasty	TOTAL - Cranial Procedures - Cranial Recon/Cranioplasty	2.1	5	0	0	25	8.3	8	0	6	50	10.4	9	0	8	51
Cranial Procedures - Other	TOTAL - Cranial Procedures - Other	2.5	4	0	0	19	8.3	8	0	6	45	10.8	8	0	9	45
CSF Shunting	Initial	2.7	4	0	1	20	14.1	13	0	12	80	16.8	12	0	14	80
	Revision	4.3	6	0	2	30	20.9	19	0	16	108	25.2	19	0	21	112
	Third ventriculostomy	1.1	2	0	0	16	2.2	4	0	1	31	3.3	4	0	2	31
	Other (CSF shunting procedures)	0.1	0	0	0	2	0.5	1	0	0	10	0.6	2	0	0	10
	TOTAL - CSF Shunting	8.3	11	0	4	49	37.7	32	0	31	195	46.0	31	0	41	199
Spinal Procedures - Dysraphism	TOTAL - Spinal Procedures - Dysraphism	1.9	4	0	0	19	8.3	13	0	5	94	10.2	13	0	7	113
Spinal Procedures - Spasticity/Pain	Pump implantation	0.4	1	0	0	9	3.1	4	0	1	22	3.5	4	0	2	22
	Rhizotomy	0.1	0	0	0	3	0.5	2	0	0	16	0.6	2	0	0	16
	TOTAL - Spinal Procedures - Spasticity/Pain	0.5	1	0	0	11	3.6	5	0	2	24	4.1	5	0	3	24
Spinal Procedures - Other	TOTAL - Spinal Procedures - Other	0.6	1	0	0	6	2.6	5	0	1	51	3.2	5	0	2	51
Total Pediatric Cases	TOTAL - Pediatric Cases	26.1	34	0	11	165	95.4	77	0	86	421	121.4	77	1	113	459

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

Reporting Period: Total Experience of Residents Completing Programs in 2011-2012

Residency Review Committee for Neurological Surgery

Report Date: October 23, 2012

[Page 1]

Number of Programs in the Nation: 87 Number of Residents in the Nation: 147

	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	25.5	19	21	0	88	24.5	27	17	0	137	50.0	34	41	4	172
Brain Tumors (intra-axial and/or extra axial) - Craniotomy	69.0	37	65	0	171	69.5	46	65	0	244	138.6	55	133	40	361
Sellar/Parasellar tumors - Transsphenoidal approach (Endoscopic or Microsurgical)	15.8	14	12	0	81	15.8	14	12	0	61	31.5	19	27	3	109
Trauma - Total Cranial Procedures	26.5	19	24	0	95	44.2	36	38	1	293	70.7	41	65	17	319
Extracranial Vascular Disease -endarterectomy/endovascular	5.6	8	3	0	56	6.0	10	3	0	69	11.6	15	7	0	77
Disc Disease and/or Spondylosis/Trauma with Instrumentation - Lumbar Spine	31.8	27	25	0	140	43.2	36	34	0	252	75.0	50	61	6	317
Peripheral Nerve Disorders - All Types	7.3	7	5	0	39	15.0	13	13	0	72	22.3	14	21	1	82
Total - Adult Cases	181.5	84	172	0	385	218.2	114	217	2	572	399.7	117	392	95	776

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

Reporting Period: Total Experience of Residents Completing Programs in 2011-2012

Residency Review Committee for Neurological Surgery

Report Date: October 23, 2012

[Page 2]

Number of Programs in the Nation: 87 Number of Residents in the Nation: 147

	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	4.3	6	2	0	28	9.0	9	8	0	48	13.4	10	11	0	63
Dysraphism - Spinal Procedures (all types)	1.9	4	0	0	19	8.3	13	5	0	94	10.2	13	7	0	113
Total - Pediatric Cases	6.3	9	2	0	47	17.3	19	14	0	112	23.5	20	19	0	159

	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	6.1	7	4	0	39	10.6	13	7	0	74	16.7	14	14	0	75
Movement disorder - Stimulation/Stereotactic Lesion	6.1	10	3	0	81	18.7	23	11	0	182	24.9	26	16	0	199
Total - Adult and Pediatric Cases	12.2	13	8	0	89	29.4	28	22	0	184	41.6	30	38	0	212

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

Reporting Period: Total Experience of Residents Completing Programs in 2011-2012

Residency Review Committee for Neurological Surgery

Report Date: October 23, 2012

Patient Age=Adult

[Page 1]

Programs in the Nation: 87 Residents in the Nation: 147

		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	3	11	18	28	46	2	7	12	23	38	12	25	37	47	72
	Aneurysm - endovascular	0	0	0	1	8	0	0	1	4	15	0	0	2	7	30
	AVM/other malformation - craniotomy	1	3	5	7	13	0	1	3	5	9	3	6	8	12	20
	AVM/other malformation - endovascular	0	0	0	0	2	0	0	0	1	5	0	0	0	2	7
	AVM/other malformation - stereotactic radiosurgery	0	0	0	0	1	0	0	0	0	2	0	0	0	1	3
	Hematoma non-traumatic	0	2	5	9	17	1	3	6	13	24	3	8	14	21	38
	Other - vascular (open or endovascular)	0	1	2	4	7	0	1	3	5	11	1	3	6	9	16
	TOTAL - Cranial Procedures - Vascular		10	26	37	51	81	6	22	39	54	101	37	58	77	101
Cranial Procedures - Tumor	Intra-axial and/or extra-axial - craniotomy	28	46	65	83	118	20	38	65	84	131	73	108	133	154	223
	Stereotactic biopsy	0	1	3	6	11	1	5	8	11	21	4	8	12	17	26
	Intra-axial and/or extra-axial - radiosurgery	0	0	0	0	7	0	0	0	3	25	0	0	1	6	31
	Parasellar/sellar tumor - transsphenoidal	3	8	12	19	32	1	7	12	20	36	13	22	27	35	57
	Other - tumor (open surgery, endoscopy, endovasc)	0	1	2	4	12	0	1	3	5	10	1	3	6	10	19
	TOTAL - Cranial Procedures- Tumor		37	69	87	116	172	30	63	97	136	198	118	162	195	231

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

Reporting Period: Total Experience of Residents Completing Programs in 2011-2012

Residency Review Committee for Neurological Surgery

Report Date: October 23, 2012

Patient Age=Adult

[Page 2]

Programs in the Nation: 87 Residents in the Nation: 147

		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	13	0	1	5	7	18	1	5	9	15	27
	Epilepsy, diagnostic - stereotactic implantation	0	0	0	0	1	0	0	0	0	2	0	0	0	1	2
	Epilepsy, therapeutic - other (vagal stimulation)	0	0	0	1	4	0	0	1	3	8	0	1	2	5	10
	Movement disorder - stimulation/stereotactic lesion	0	1	3	6	18	1	5	11	21	46	3	10	16	28	55
	Pain - stimulation	0	0	0	0	1	0	0	0	1	2	0	0	0	1	3
	Percutaneous lesion creation	0	0	0	1	4	0	0	1	2	7	0	0	2	3	9
	Craniotomy/craniectomy	0	2	4	7	11	0	1	3	6	12	2	6	8	11	22
	Stereotactic radiosurgery (functional)	0	0	0	0	1	0	0	0	0	5	0	0	0	1	7
	Other (functional)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL - Cranial Procedures- Functional		4	9	15	25	39	4	17	31	50	85	18	34	52	68
Cranial Procedures - Trauma	Depressed skull fracture/penetrating wound	0	1	2	3	5	0	1	2	5	9	1	3	5	7	13
	Hematoma	3	13	21	27	45	9	21	32	46	72	26	41	55	71	98
	Other (trauma)	0	0	0	1	3	0	0	1	2	5	0	1	2	3	7
	TOTAL - Cranial Procedures - Trauma	4	16	24	33	54	11	24	38	53	82	31	47	65	80	113

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

Reporting Period: Total Experience of Residents Completing Programs in 2011-2012

Residency Review Committee for Neurological Surgery

Report Date: October 23, 2012

Patient Age=Adult

[Page 3]

Programs in the Nation: 87 Residents in the Nation: 147

		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	1
	Craniofacial reconstruction	0	0	0	0	2	0	0	0	1	2	0	0	1	1	3
	Cranioplasty	0	1	3	6	12	1	4	7	11	19	4	7	11	15	26
	TOTAL - Cranial Procedures - Cranial Recon/Cranioplasty	0	1	3	7	12	1	5	8	11	22	5	8	12	17	28
Cranial Procedures - Other	Misc Procs (open, endoscopy, or endovascular)	2	6	9	13	21	4	9	15	21	31	12	20	26	32	41
	TOTAL - Cranial Procedures - Other	2	6	9	13	21	4	9	15	21	31	12	20	26	32	41
Extracranial/Intracranial Occlusive Vascular Dis	Carotid endarterectomy	0	1	3	6	13	0	0	2	4	8	0	3	6	10	17
	Carotid angioplasty/stenting (endovascular)	0	0	0	0	1	0	0	0	0	5	0	0	0	1	6
	EC/IC bypass	0	0	0	1	3	0	0	0	1	3	0	0	1	2	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	2	5	8	17	0	1	4	7	19	1	6	10	15	32

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

Reporting Period: Total Experience of Residents Completing Programs in 2011-2012

Residency Review Committee for Neurological Surgery

Report Date: October 23, 2012

Patient Age=Adult

[Page 4] Programs in the Nation: 87 Residents in the Nation: 147

		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	17	30	8	18	26	32	46	19	30	38	48	64
	Revision	1	4	7	9	19	5	12	17	23	39	12	19	25	31	48
	Third ventriculostomy	0	0	1	3	4	0	1	2	3	6	1	2	4	5	9
	Other (CSF shunting procedures)	0	0	0	0	1	0	0	0	0	2	0	0	0	1	2
	TOTAL - CSF Shunting	4	15	21	28	49	14	33	46	59	79	40	57	71	84	111
Spinal Procedures - Disc and/or Spondylosis	Cervical - discectomy/decompression	2	6	13	22	44	4	16	24	38	64	19	30	41	54	101
	Cervical - w/ instrumentation/fusion	3	10	17	32	49	3	17	30	48	76	16	35	51	82	113
	Thoracic - discectomy/decompression	0	1	2	3	6	0	1	3	5	8	2	4	5	7	11
	Thoracic - w/ instrumentation/fusion	0	1	2	3	8	0	1	2	4	7	1	3	5	7	12
	Lumbar/sacral - discectomy/decompression	5	19	29	42	86	14	42	60	92	130	48	74	97	135	178
	Lumbar/sacral - w/ instrumentation/fusion	2	9	16	26	56	3	15	26	41	77	15	31	47	71	118
	TOTAL - Spinal Procedures - Disc and/or Spondylosis	21	62	96	131	223	48	113	165	231	329	137	211	269	344	478

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

Reporting Period: Total Experience of Residents Completing Programs in 2011-2012

Residency Review Committee for Neurological Surgery

Report Date: October 23, 2012

Patient Age=Adult

[Page 5]

Programs in the Nation: 87 Residents in the Nation: 147

		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	1	4	6	9	15	1	4	6	9	15	6	10	13	18	26
	Primary tumor - resection w/instrumentation/fusion	0	0	0	1	2	0	0	1	1	3	0	1	1	2	4
	Metastatic tumor resection	0	1	2	4	9	0	1	2	4	9	1	3	5	7	13
	Metastatic tumor resection w/instrumentation/fusion	0	0	1	2	5	0	0	1	2	5	0	1	2	5	9
	Vascular lesion	0	0	0	1	2	0	0	0	1	2	0	0	1	2	3
	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	0	0	0	0	0	1
	TOTAL - Spinal Procedures - Tumor/Vascular Lesion		3	7	12	16	30	2	7	11	17	28	11	20	25	31

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Percentiles Table - Adult Cases)
Reporting Period: Total Experience of Residents Completing Programs in 2011-2012
Residency Review Committee for Neurological Surgery
Report Date: October 23, 2012

Patient Age=Adult

[Page 6]

Programs in the Nation: 87 Residents in the Nation: 147

		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	1	1	4	0	0	1	2	5	0	1	2	3	7
	Cervical - with instrumentation/fusion	0	2	4	7	14	0	2	4	7	13	2	5	9	13	24
	Thoracic - operative decompression/reduction	0	0	0	1	2	0	0	0	1	2	0	0	1	2	4
	Thoracic - with instrumentation/fusion	0	1	2	3	6	0	1	2	3	9	1	3	5	7	13
	Lumbar/sacral - operative decompression/reduction	0	0	0	1	2	0	0	0	1	2	0	0	1	2	3
	Lumbar/sacral - with instrumentation/fusion	0	1	1	3	6	0	1	2	3	8	0	2	4	7	12
	TOTAL - Spinal Procedures- Trauma		2	6	11	16	27	1	5	10	18	35	7	15	24	33
Spinal Procedures - Dysraphism	Spinal dysraphism	0	0	0	1	3	0	0	1	2	3	0	1	2	3	5
	TOTAL - Spinal Procedures - Dysraphism	0	0	0	1	3	0	0	1	2	3	0	1	2	3	5
Spinal Procedures - Spasticity/Pain	Pump implantation	0	0	1	3	8	0	2	5	10	21	1	4	7	13	26
	Rhizotomy	0	0	0	0	1	0	0	0	0	1	0	0	0	0	2
	Stimulation	0	0	1	3	9	0	2	4	9	23	1	4	7	14	30
	TOTAL - Spinal Procedures - Spasticity/Pain	0	1	2	5	18	1	6	11	19	39	3	9	17	29	51

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

Reporting Period: Total Experience of Residents Completing Programs in 2011-2012

Residency Review Committee for Neurological Surgery

Report Date: October 23, 2012

Patient Age=Adult

[Page 7]		Programs in the Nation: 87		Residents in the Nation: 147		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	6	0	1	2	4	10				
	Non-neoplastic lesions/deformity/infection/other	1	4	7	10	16	2	8	12	15	26	7	14	20	26	36				
	Non-neoplastic lesions - w/instrumentation/fusion	0	0	0	1	2	0	0	0	1	3	0	0	1	2	5				
	TOTAL - Spinal Procedures - Other	1	4	8	12	25	3	10	15	20	32	9	17	24	32	47				
Peripheral Nerve Procedures	Neurolysis/transposition	0	1	3	6	11	0	3	7	13	23	2	7	12	20	32				
	Nerve repair	0	0	0	0	1	0	0	0	1	2	0	0	0	1	4				
	Sympathectomy	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1				
	Nerve stimulation	0	0	0	0	3	0	0	0	2	6	0	0	1	3	7				
	Peripheral nerve section/rhizotomy	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2				
	Excision tumor/neuroma/neurolytic agent/other	0	0	0	1	3	0	0	1	2	4	0	1	2	3	5				
	TOTAL - Peripheral Nerve Procedures	0	3	5	9	17	2	6	13	20	31	6	13	21	27	42				
Minor/Diagnostic Procedures	Muscle/nerve biopsy	0	0	0	1	5	0	0	1	3	12	0	1	2	7	15				
	ICP monitoring	0	0	0	1	5	0	2	5	14	34	1	3	7	16	36				
	Tongs/halo application	0	0	0	0	2	0	0	0	2	6	0	0	1	3	9				
	Ventriculostomy	0	0	0	2	6	0	1	4	11	40	0	2	5	14	46				
	Arteriography	0	0	0	1	17	0	0	1	7	85	0	0	2	15	114				
	Injection/Aspiration/Biopsy/Punctures/Other	0	2	3	6	14	0	4	8	16	42	3	7	12	27	50				
	TOTAL - Minor/Diagnostic Procedures	1	4	9	17	44	5	20	40	81	203	12	33	54	90	248				

NEUROLOGICAL SURGERY: NATIONAL RESIDENT REPORT (Percentiles Table - Adult Cases)
Reporting Period: Total Experience of Residents Completing Programs in 2011-2012
Residency Review Committee for Neurological Surgery
Report Date: October 23, 2012

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	1	0	0	0	0	1
	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	2
Unassigned	Unassigned	0	0	1	2	6	0	1	3	6	17	0	2	5	10	22
	TOTAL - Unassigned	0	0	1	2	6	0	1	3	6	17	0	2	5	10	22
Total Adult Cases	TOTAL - Adult Cases	173	317	401	489	716	231	504	667	811	1,085	672	910	1,068	1,273	1,535

[Page 8]

Programs in the Nation: 87 Residents in the Nation: 147

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

Reporting Period: Total Experience of Residents Completing Programs in 2011-2012

Residency Review Committee for Neurological Surgery

Report Date: October 23, 2012

Patient Age=Pediatric

[Page 9]

Programs in the Nation: 87 Residents in the Nation: 147

		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	0	1
	Aneurysm - endovascular	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AVM/other malformation - craniotomy	0	0	0	0	1	0	0	0	1	3	0	0	1	2	3
	AVM/other malformation - endovascular	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	AVM/other malformation - stereotactic radiosurgery	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
	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	0	0	0	0	0	1	0	0	0	0	1
	TOTAL - Cranial Procedures - Vascular	0	0	0	1	3	0	1	2	3	7	0	2	3	4	8
	Cranial Procedures - Tumor	Intra-axial and/or extra-axial - craniotomy	0	0	2	5	12	0	3	8	11	18	4	8	11	17
Stereotactic biopsy		0	0	0	0	1	0	0	0	1	2	0	0	0	1	2
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	2	0	0	0	1	2	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	2
TOTAL - Cranial Procedures- Tumor		0	0	2	6	17	0	4	9	15	23	5	10	14	20	30
Cranial Procedures - Functional		Epilepsy (therapeutic and/or diag) - craniotomy	0	0	0	1	4	0	0	1	4	10	0	1	3	5
	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	0	2	6	0	0	1	2	6
	Movement disorder - stimulation/stereotactic lesion	0	0	0	0	0	0	0	0	0	2	0	0	0	1	3
	TOTAL - Cranial Procedures- Functional	0	0	0	1	5	0	1	3	6	15	0	3	5	9	18

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

Reporting Period: Total Experience of Residents Completing Programs in 2011-2012

Residency Review Committee for Neurological Surgery

Report Date: October 23, 2012

Patient Age=Pediatric

[Page 10] Programs in the Nation: 87 Residents in the Nation: 147

		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	2	5	1	2	5	8	14	1	4	7	10	16
Cranial Procedures - Cranial Recon/Cranioplasty	TOTAL - Cranial Procedures - Cranial Recon/Cranioplasty	0	0	0	1	5	0	3	6	10	19	2	5	8	11	23
Cranial Procedures - Other	TOTAL - Cranial Procedures - Other	0	0	0	3	8	0	3	6	11	18	2	6	9	13	21
CSF Shunting	Initial	0	0	1	3	8	0	6	12	17	29	4	10	14	20	35
	Revision	0	0	2	5	13	1	7	16	28	49	4	13	21	32	53
	Third ventriculostomy	0	0	0	1	4	0	0	1	2	5	0	1	2	4	8
	Other (CSF shunting procedures)	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
	TOTAL - CSF Shunting	0	1	4	10	24	3	19	31	48	80	12	25	41	56	87
Spinal Procedures - Dysraphism	TOTAL - Spinal Procedures - Dysraphism	0	0	0	2	6	0	2	5	9	16	2	4	7	11	19
Spinal Procedures - Spasticity/Pain	Pump implantation	0	0	0	0	2	0	0	1	3	10	0	1	2	4	10
	Rhizotomy	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
	TOTAL - Spinal Procedures - Spasticity/Pain	0	0	0	0	2	0	0	2	4	12	0	1	3	5	12
Spinal Procedures - Other	TOTAL - Spinal Procedures - Other	0	0	0	1	2	0	0	1	3	7	0	1	2	3	7
Total Pediatric Cases	TOTAL - Pediatric Cases	0	4	11	27	79	12	48	86	120	208	41	81	113	138	219

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

Reporting Period: Total Experience of Residents Completing Programs in 2011-2012

Residency Review Committee for Neurological Surgery

Report Date: October 23, 2012

[Page 1]

Programs in the Nation: 87 Residents in the Nation: 147

	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	3	13	21	32	54	2	9	17	28	56	17	29	41	56	98
Brain Tumors (intra-axial and/or extra axial) - Craniotomy	28	46	65	83	118	20	38	65	84	131	73	108	133	154	223
Sellar/Parasellar tumors - Transsphenoidal approach (Endoscopic or Microsurgical)	3	8	12	19	32	1	7	12	20	36	13	22	27	35	57
Trauma - Total Cranial Procedures	4	16	24	33	54	11	24	38	53	82	31	47	65	80	113
Extracranial Vascular Disease -endarterectomy/endovascular	0	1	3	6	13	0	1	3	5	14	1	4	7	12	22
Disc Disease and/or Spondylosis/Trauma with Instrumentation - Lumbar Spine	4	16	25	38	72	6	20	34	52	92	26	45	61	96	137
Peripheral Nerve Disorders - All Types	0	3	5	9	17	2	6	13	20	31	6	13	21	27	42
Total - Adult Cases	80	144	172	219	302	62	166	217	270	362	248	344	392	472	541

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

Reporting Period: Total Experience of Residents Completing Programs in 2011-2012

Residency Review Committee for Neurological Surgery

Report Date: October 23, 2012

[Page 2]

Programs in the Nation: 87 Residents in the Nation: 147

	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	5	12	0	3	8	11	18	4	8	11	17	26
Dysraphism - Spinal Procedures (all types)	0	0	0	2	6	0	2	5	9	16	2	4	7	11	19
Total - Pediatric Cases	0	0	2	7	21	0	5	14	21	35	5	14	19	27	41

	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	4	7	17	0	3	7	12	26	2	8	14	20	35
Movement disorder - Stimulation/Stereotactic Lesion	0	1	3	6	18	1	5	11	22	47	4	10	16	30	56
Total - Adult and Pediatric Cases	1	4	8	16	28	2	13	22	36	65	11	24	38	48	80