



# Accreditation Council for Graduate Medical Education

## Orthopaedic 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. Data is broken out by patient type (adult, pediatric, and all).

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.

v. "Natl Res MAX" - The maximum value seen among procedure counts in the nation.

#### II. National Benchmark Report 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 Table for Resident Minimums Statistics

The table summarizes national resident experience in 13 defined categories and 2 procedure groups, and compares these to RRC required minimums (Min Req'd).

The information on the following pages has been created using specialty specific categories. These data should not be used for comparison across specialties as the definition of the categories will vary among the specialties. In addition, care should be exercised when comparing data from year to year as the definition of certain categories may be revised from time to time.

**ORTHOPAEDIC SURGERY : NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Orthopaedic Surgery**  
**Report Date: September 26, 2019**

[PART 1 ]		Programs in the Nation: 154 Residents in the Nation: 725														
		All Patients (Primary)					Adult (Primary)					Pediatric (Primary)				
		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															
Shoulder	Incision	1.7	2	0	1	17	1.6	2	0	1	17	0.2	0	0	0	4
	Excision	4.1	3	0	3	41	3.5	3	0	3	40	0.6	1	0	0	8
	Intro or Removal	0.5	1	0	0	11	0.5	1	0	0	10	0.0	0	0	0	2
	Repair/ Revisn/ Reconst	35.4	22	0	32	144	34.7	22	0	31	142	0.7	1	0	0	12
	Fracture and/or Dislocation	25.2	18	0	21	231	22.8	17	0	19	231	2.5	3	0	2	19
	Manipulation	5.5	6	0	4	48	4.8	5	0	3	47	0.7	1	0	0	10
	Arthrodesis	0.1	0	0	0	2	0.1	0	0	0	2	0.0	0	0	0	1
	Amputation	0.2	0	0	0	4	0.2	0	0	0	4	0.0	0	0	0	1
	Arthroscopy	83.8	45	20	74	446	81.7	44	16	72	438	2.1	3	0	1	30
	Other Procedures	0.2	1	0	0	7	0.2	1	0	0	7	0.0	0	0	0	2
	<b>TOTAL-Shoulder</b>	<b>156.6</b>	65	43	147	582	<b>149.8</b>	63	39	139	565	<b>6.8</b>	5	0	6	37
Humerus/Elbow	Incision	3.0	3	0	2	26	2.5	3	0	2	24	0.4	1	0	0	4
	Excision	5.0	3	0	4	28	4.3	3	0	4	27	0.7	1	0	0	8
	Intro or Removal	0.7	2	0	0	19	0.5	1	0	0	17	0.2	1	0	0	7
	Repair/ Revisn/ Reconst	13.7	7	0	12	50	12.7	7	0	11	49	1.0	1	0	1	18
	Fracture and/or Dislocation	59.2	21	17	55	162	28.9	14	4	26	116	30.3	14	5	28	93
	Manipulation	10.2	11	0	7	98	5.4	7	0	3	77	4.9	6	0	3	89
	Arthrodesis	0.0	0	0	0	4	0.0	0	0	0	4	0.0	0	0	0	1
	Amputation	0.4	1	0	0	5	0.4	1	0	0	5	0.0	0	0	0	1
	Arthroscopy	2.1	3	0	1	31	1.7	2	0	1	25	0.4	1	0	0	8
	Other Procedures	0.2	1	0	0	18	0.1	1	0	0	12	0.1	0	0	0	6
	<b>TOTAL-Humerus/Elbow</b>	<b>94.5</b>	30	35	90	220	<b>56.6</b>	22	7	53	180	<b>38.0</b>	16	9	35	117

Statistics are based upon primary credit role procedures logged by residents.

**ORTHOPAEDIC SURGERY : NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Orthopaedic Surgery**  
**Report Date: September 26, 2019**

[PART 2]		Programs in the Nation: 154					Residents in the Nation: 725									
		All Patients (Primary)					Adult (Primary)					Pediatric (Primary)				
		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															
Forearm/Wrist	Incision	6.3	5	0	5	41	6.0	5	0	5	41	0.3	1	0	0	5
	Excision	11.2	7	0	10	65	10.0	7	0	9	64	1.2	1	0	1	10
	Intro or Removal	0.7	1	0	0	12	0.5	1	0	0	8	0.2	1	0	0	7
	Repair/ Revisn/ Reconst	14.0	9	0	12	60	12.5	9	0	11	59	1.5	2	0	1	11
	Fracture and/or Dislocation	51.8	24	3	49	179	41.9	21	3	39	167	9.9	9	0	8	115
	Manipulation	62.5	34	20	55	253	26.1	23	0	21	242	36.5	23	1	31	170
	Arthrodesis	1.8	2	0	1	14	1.7	2	0	1	14	0.1	0	0	0	3
	Amputation	0.4	1	0	0	6	0.4	1	0	0	6	0.0	0	0	0	2
	Arthroscopy	3.3	4	0	2	34	3.2	4	0	2	34	0.2	1	0	0	6
	Other Procedures	0.2	1	0	0	20	0.1	1	0	0	16	0.0	0	0	0	4
	<b>TOTAL-Forearm/Wrist</b>	<b>152.2</b>	<b>49</b>	<b>55</b>	<b>145</b>	<b>408</b>	<b>102.3</b>	<b>42</b>	<b>8</b>	<b>95</b>	<b>383</b>	<b>49.9</b>	<b>25</b>	<b>7</b>	<b>45</b>	<b>242</b>
Hand/Fingers	Incision	28.4	16	0	25	102	26.2	15	0	23	101	2.2	2	0	2	14
	Excision	13.2	8	0	11	60	12.2	8	0	11	58	1.0	2	0	1	21
	Intro or Removal	0.8	2	0	0	39	0.7	2	0	0	27	0.1	1	0	0	17
	Repair/ Revisn/ Reconst	17.2	11	0	15	88	14.1	10	0	12	85	3.1	4	0	2	23
	Fracture and/or Dislocation	24.1	15	0	21	116	19.4	14	0	17	113	4.7	4	0	4	25
	Manipulation	10.0	16	0	5	186	7.3	14	0	3	182	2.7	4	0	1	37
	Arthrodesis	3.0	3	0	2	37	2.9	3	0	2	37	0.1	0	0	0	4
	Amputation	6.1	6	0	4	78	5.5	6	0	4	78	0.6	1	0	0	14
	Other Procedures	0.7	2	0	0	30	0.5	2	0	0	30	0.1	0	0	0	4
		<b>TOTAL-Hand/Fingers</b>	<b>103.3</b>	<b>47</b>	<b>11</b>	<b>95</b>	<b>383</b>	<b>88.7</b>	<b>43</b>	<b>0</b>	<b>81</b>	<b>365</b>	<b>14.6</b>	<b>10</b>	<b>0</b>	<b>13</b>

Statistics are based upon primary credit role procedures logged by residents.

**ORTHOPAEDIC SURGERY : NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Orthopaedic Surgery**  
**Report Date: September 26, 2019**

[PART 3]		Programs in the Nation: 154					Residents in the Nation: 725									
		All Patients (Primary)					Adult (Primary)					Pediatric (Primary)				
		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															
Pelvis/Hip	Incision	6.5	5	0	6	28	4.0	4	0	3	28	2.5	3	0	2	21
	Excision	3.0	3	0	2	19	2.7	3	0	2	16	0.3	1	0	0	7
	Intro or Removal	2.6	3	0	2	18	1.8	2	0	1	17	0.8	1	0	0	10
	Repair/ Revisn/ Reconst	118.3	52	36	108	401	110.4	51	33	100	398	7.8	6	0	7	48
	Fracture and/or Dislocation	93.2	37	35	86	249	89.8	36	28	83	233	3.5	3	0	3	18
	Manipulation	8.7	8	0	7	71	7.7	7	0	6	69	1.0	2	0	1	21
	Arthrodesis	0.2	1	0	0	6	0.2	1	0	0	6	0.0	0	0	0	1
	Amputation	0.5	1	0	0	6	0.5	1	0	0	6	0.0	0	0	0	2
	Arthroscopy	9.8	14	0	6	173	8.7	13	0	5	164	1.1	2	0	0	22
	Other Procedures	1.1	2	0	0	21	0.9	2	0	0	17	0.2	1	0	0	18
	<b>TOTAL-Pelvis/Hip</b>	<b>243.9</b>	<b>76</b>	<b>93</b>	<b>230</b>	<b>553</b>	<b>226.7</b>	<b>74</b>	<b>88</b>	<b>215</b>	<b>522</b>	<b>17.2</b>	<b>10</b>	<b>1</b>	<b>15</b>	<b>64</b>
Femur/Knee	Incision	9.6	8	0	8	51	8.0	7	0	6	45	1.5	3	0	1	48
	Excision	10.8	7	0	9	42	8.7	7	0	7	38	2.1	2	0	2	18
	Intro or Removal	1.1	4	0	0	82	0.7	3	0	0	81	0.4	1	0	0	11
	Repair/ Revisn/ Reconst	163.3	63	52	150	511	151.4	62	36	139	508	11.9	8	0	10	45
	Fracture and/or Dislocation	71.0	27	15	66	207	61.3	25	14	57	198	9.7	6	0	9	34
	Manipulation	10.1	10	0	7	81	7.2	8	0	5	66	2.9	3	0	2	36
	Arthrodesis	0.4	1	0	0	5	0.3	1	0	0	5	0.0	0	0	0	2
	Amputation	3.5	3	0	3	23	3.3	3	0	2	23	0.2	1	0	0	4
	Arthroscopy	117.1	52	41	107	382	100.6	49	26	90	371	16.5	13	0	14	78
	Other Procedures	0.7	3	0	0	55	0.5	2	0	0	41	0.2	1	0	0	14
	<b>TOTAL-Femur/Knee</b>	<b>387.5</b>	<b>102</b>	<b>147</b>	<b>372</b>	<b>817</b>	<b>342.0</b>	<b>96</b>	<b>138</b>	<b>325</b>	<b>749</b>	<b>45.5</b>	<b>20</b>	<b>3</b>	<b>43</b>	<b>161</b>

Statistics are based upon primary credit role procedures logged by residents.

**ORTHOPAEDIC SURGERY : NATIONAL RESIDENT REPORT (Main Table)**  
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**Residency Review Committee for Orthopaedic Surgery**  
**Report Date: September 26, 2019**

[PART 4 ]		Programs in the Nation: 154					Residents in the Nation: 725									
		All Patients (Primary)					Adult (Primary)					Pediatric (Primary)				
		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															
Leg/Ankle	Incision	11.6	8	0	10	65	7.2	7	0	5	60	4.4	4	0	4	32
	Excision	6.2	5	0	5	51	4.5	4	0	4	46	1.7	2	0	1	15
	Intro or Removal	0.1	0	0	0	4	0.0	0	0	0	4	0.0	0	0	0	3
	Repair/ Revisn/ Reconst	31.5	17	2	28	153	23.0	15	1	20	134	8.5	7	0	7	47
	Fracture and/or Dislocation	102.6	36	29	99	328	91.3	34	21	87	315	11.3	7	0	10	70
	Manipulation	24.2	23	0	17	171	18.8	21	0	12	170	5.4	6	0	4	75
	Arthrodesis	4.4	3	0	4	22	4.3	3	0	4	22	0.1	0	0	0	3
	Amputation	7.0	6	0	6	50	6.6	6	0	5	50	0.4	1	0	0	5
	Arthroscopy	6.5	6	0	5	38	6.0	6	0	4	38	0.6	1	0	0	7
	Other Procedures	1.2	3	0	1	59	1.0	2	0	0	52	0.2	1	0	0	7
	<b>TOTAL-Leg/Ankle</b>	<b>195.3</b>	<b>60</b>	<b>63</b>	<b>189</b>	<b>527</b>	<b>162.6</b>	<b>56</b>	<b>42</b>	<b>156</b>	<b>484</b>	<b>32.6</b>	<b>13</b>	<b>1</b>	<b>31</b>	<b>112</b>
Foot/Toes	Incision	3.3	4	0	2	36	2.6	3	0	2	32	0.7	2	0	0	26
	Excision	8.8	6	0	8	44	6.7	5	0	6	42	2.1	2	0	2	18
	Intro or Removal	0.8	2	0	0	21	0.5	1	0	0	21	0.3	1	0	0	5
	Repair/ Revisn/ Reconst	22.5	16	0	19	115	16.7	14	0	13	110	5.7	5	0	5	33
	Fracture and/or Dislocation	20.2	12	0	18	134	18.0	11	0	16	109	2.2	2	0	2	25
	Manipulation	2.6	4	0	1	57	2.2	4	0	1	57	0.4	1	0	0	8
	Arthrodesis	15.5	10	0	13	69	14.4	10	0	12	68	1.2	2	0	1	15
	Amputation	5.7	6	0	3	36	5.3	6	0	3	34	0.4	1	0	0	5
	Arthroscopy	0.2	1	0	0	7	0.2	1	0	0	7	0.0	0	0	0	1
	Other Procedures	0.3	1	0	0	11	0.2	1	0	0	11	0.1	1	0	0	7
	<b>TOTAL-Foot/Toes</b>	<b>79.9</b>	<b>37</b>	<b>8</b>	<b>74</b>	<b>240</b>	<b>66.8</b>	<b>34</b>	<b>3</b>	<b>60</b>	<b>215</b>	<b>13.1</b>	<b>8</b>	<b>0</b>	<b>12</b>	<b>59</b>

Statistics are based upon primary credit role procedures logged by residents.

**ORTHOPAEDIC SURGERY : NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Orthopaedic Surgery**  
**Report Date: September 26, 2019**

[PART 5 ]		Programs in the Nation: 154					Residents in the Nation: 725									
		All Patients (Primary)					Adult (Primary)					Pediatric (Primary)				
		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															
Other Musculoskeletal	Incision	0.8	2	0	0	32	0.7	2	0	0	27	0.1	1	0	0	7
	Excision	7.9	14	0	4	189	6.6	12	0	4	165	1.3	2	0	1	24
	Intro or Removal	87.7	56	0	80	423	72.3	52	0	63	414	15.4	10	0	14	57
	Repair/ Revisn/ Reconst	0.0	0	0	0	2	0.0	0	0	0	2	0.0	0	0	0	0
	Fracture and/or Dislocation	0.1	0	0	0	7	0.1	0	0	0	7	0.0	0	0	0	1
	Arthroscopy	0.3	1	0	0	15	0.2	1	0	0	12	0.0	0	0	0	6
	Other Procedures	42.6	62	0	21	468	20.7	42	0	6	356	21.9	29	0	11	308
	TOTAL-Other Musclskel	139.3	94	0	116	766	100.6	76	0	82	566	38.8	31	0	32	334
Spine	Excision	1.1	4	0	0	43	0.6	2	0	0	43	0.5	2	0	0	23
	Fracture / Dislocation	4.7	11	0	1	98	4.3	11	0	1	96	0.4	1	0	0	15
	Decompression	29.0	22	1	23	194	28.5	22	1	23	193	0.5	1	0	0	14
	Osteotomy	0.1	0	0	0	7	0.1	0	0	0	7	0.0	0	0	0	3
	Arthrodesis/Anterior	12.9	14	0	9	207	12.7	14	0	9	202	0.2	1	0	0	16
	Arthrodesis/Posterior	20.7	18	0	16	142	19.6	17	0	15	137	1.1	3	0	0	41
	Arthrodesis/Deformity	13.3	12	0	10	120	4.9	7	0	3	67	8.4	8	0	7	60
	Exploration	0.5	1	0	0	11	0.4	1	0	0	8	0.1	1	0	0	8
	Instrumentation	7.9	11	0	4	89	5.2	9	0	2	89	2.8	4	0	1	54
	Other Procedures	1.1	3	0	0	47	0.5	2	0	0	44	0.6	2	0	0	17
TOTAL - Spine	91.3	59	18	76	440	76.8	55	3	62	403	14.5	12	0	11	115	

Statistics are based upon primary credit role procedures logged by residents.

**ORTHOPAEDIC SURGERY : NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Orthopaedic Surgery**  
**Report Date: September 26, 2019**

[PART 6 ]		Programs in the Nation: 154					Residents in the Nation: 725									
		All Patients (Primary)					Adult (Primary)					Pediatric (Primary)				
		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															
Integumentary System	Incision/Excision	47.7	38	0	39	229	41.4	34	0	34	212	6.3	6	0	5	42
	Repair (Closure)	5.1	6	0	3	45	4.2	6	0	2	40	0.8	2	0	0	11
	Skin Grafts	3.1	4	0	2	37	2.9	4	0	2	34	0.2	1	0	0	9
	Flaps	1.4	3	0	1	19	1.4	2	0	0	19	0.1	0	0	0	3
	Other Procedures	0.3	2	0	0	35	0.3	2	0	0	35	0.1	0	0	0	5
	TOTAL-Integumentary	57.7	43	0	49	244	50.2	39	0	43	222	7.5	7	0	6	43
Nervous System	Incision/Excision	1.0	1	0	0	9	0.9	1	0	0	9	0.0	0	0	0	2
	Neuroplasty	11.9	9	0	10	65	11.4	9	0	10	65	0.5	1	0	0	11
	Transection or Avulsion	0.2	1	0	0	14	0.2	1	0	0	9	0.0	0	0	0	5
	Neurorrhaphy	2.9	3	0	2	21	2.6	3	0	2	21	0.3	1	0	0	10
	Carpal Tunnel	46.5	24	11	41	144	46.1	24	10	40	144	0.4	1	0	0	10
	Other Procedures	0.1	0	0	0	5	0.0	0	0	0	4	0.0	0	0	0	5
	TOTAL-Nervous System	62.5	30	13	56	179	61.3	30	13	55	179	1.2	2	0	1	21
Oncology Cases	TOTAL-Oncology Cases	42.4	26	10	36	214	36.4	24	0	31	202	6.1	6	0	4	43
Microsurgeries	TOTAL-Microsurgeries	21.5	42	0	9	459	19.7	39	0	9	411	1.8	5	0	0	53
Total Procedures	TOTAL-Credit Procedures	1,764.1	382	870	1,709	3,318	1,484.4	352	662	1,429	2,900	279.7	73	200	261	770
Reductions	Closed Reductions	131.3	86	29	111	782	77.3	72	0	59	768	54.0	32	2	47	301
	Open Simple Reductions	350.8	99	112	339	719	298.6	89	97	285	670	52.2	23	5	48	163
	Open Complex Reductions	53.4	25	4	49	162	49.7	24	4	45	152	3.7	3	0	3	19

Statistics are based upon primary credit role procedures logged by residents.

# ORTHOPAEDIC SURGERY : NATIONAL RESIDENT STATISTICS REPORT (Benchmarks Table)

Reporting Period: Total Experience of Residents Completing Programs in 2018-2019

Residency Review Committee for Orthopaedic Surgery

Report Date: September 26, 2019

[PART 1 ]		Programs in the Nation: 154					Residents in the Nation: 725									
		All Patients (Primary)					Adult (Primary)					Pediatric (Primary)				
		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															
Shoulder	Incision	0	0	1	2	4	0	0	1	2	4	0	0	0	0	1
	Excision	1	2	3	5	8	0	2	3	4	7	0	0	0	1	2
	Intro or Removal	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0
	Repair/ Revisn/ Reconst	11	22	32	43	63	11	21	31	42	63	0	0	0	1	2
	Fracture and/or Dislocation	10	16	21	29	44	8	14	19	27	40	0	1	2	3	6
	Manipulation	1	2	4	6	12	1	2	3	6	10	0	0	0	1	2
	Arthrodesis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Amputation	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	Arthroscopy	37	57	74	96	134	36	55	72	94	133	0	0	1	2	6
	Other Procedures	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
TOTAL-Shoulder		87	119	147	177	234	82	113	139	171	225	2	4	6	8	13
Humerus/Elbow	Incision	0	1	2	4	6	0	1	2	3	6	0	0	0	1	1
	Excision	1	3	4	6	9	1	3	4	5	8	0	0	0	1	2
	Intro or Removal	0	0	0	1	2	0	0	0	0	1	0	0	0	0	1
	Repair/ Revisn/ Reconst	5	10	12	16	23	5	9	11	15	21	0	0	1	1	3
	Fracture and/or Dislocation	36	46	55	68	88	15	21	26	33	46	14	22	28	35	48
	Manipulation	1	4	7	11	22	0	1	3	6	13	0	2	3	6	11
	Arthrodesis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Amputation	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
	Arthroscopy	0	1	1	2	5	0	0	1	2	5	0	0	0	0	1
	Other Procedures	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
TOTAL-Humerus/Elbow		62	77	90	105	132	33	44	53	64	84	20	28	35	44	59

Statistics are based upon primary credit role procedures logged by residents.



# ORTHOPAEDIC SURGERY : NATIONAL RESIDENT STATISTICS REPORT (Benchmarks Table)

Reporting Period: Total Experience of Residents Completing Programs in 2018-2019

Residency Review Committee for Orthopaedic Surgery

Report Date: September 26, 2019

[PART 2 ]		Programs in the Nation: 154					Residents in the Nation: 725									
		All Patients (Primary)					Adult (Primary)					Pediatric (Primary)				
		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															
Forearm/Wrist	Incision	1	3	5	8	12	1	3	5	7	12	0	0	0	0	1
	Excision	4	7	10	13	20	3	6	9	12	19	0	0	1	2	3
	Intro or Removal	0	0	0	1	2	0	0	0	0	2	0	0	0	0	1
	Repair/ Revisn/ Reconst	4	8	12	17	26	3	7	11	15	24	0	0	1	2	4
	Fracture and/or Dislocation	27	37	49	59	82	19	30	39	48	68	2	5	8	12	19
	Manipulation	29	43	55	70	105	5	13	21	31	51	14	23	31	42	64
	Arthrodesis	0	1	1	2	4	0	0	1	2	4	0	0	0	0	1
	Amputation	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	Arthroscopy	0	1	2	4	8	0	1	2	4	8	0	0	0	0	1
	Other Procedures	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL-Forearm/Wrist		99	123	145	170	215	55	78	95	120	154	25	37	45	56	78
Hand/Fingers	Incision	12	19	25	34	48	10	18	23	31	46	0	1	2	3	5
	Excision	4	8	11	16	23	4	7	11	15	22	0	0	1	1	3
	Intro or Removal	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0
	Repair/ Revisn/ Reconst	6	11	15	20	31	5	9	12	17	25	0	1	2	4	8
	Fracture and/or Dislocation	9	15	21	28	43	7	12	17	22	36	0	2	4	6	10
	Manipulation	0	2	5	11	24	0	1	3	7	18	0	0	1	3	7
	Arthrodesis	0	1	2	4	6	0	1	2	4	6	0	0	0	0	0
	Amputation	1	3	4	7	13	1	2	4	7	11	0	0	0	1	2
	Other Procedures	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
	TOTAL-Hand/Fingers		54	76	95	119	158	45	65	81	101	138	4	8	13	18

Statistics are based upon primary credit role procedures logged by residents.

# ORTHOPAEDIC SURGERY : NATIONAL RESIDENT STATISTICS REPORT (Benchmarks Table)

Reporting Period: Total Experience of Residents Completing Programs in 2018-2019

Residency Review Committee for Orthopaedic Surgery

Report Date: September 26, 2019

[PART 3]		Programs in the Nation: 154					Residents in the Nation: 725									
		All Patients (Primary)					Adult (Primary)					Pediatric (Primary)				
		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															
Pelvis/Hip	Incision	1	3	6	8	13	0	2	3	5	9	0	1	2	3	6
	Excision	0	1	2	4	7	0	1	2	4	6	0	0	0	0	1
	Intro or Removal	0	1	2	3	6	0	0	1	2	5	0	0	0	1	2
	Repair/ Revisn/ Reconst	66	89	108	131	184	58	81	100	123	176	2	4	7	9	15
	Fracture and/or Dislocation	53	69	86	106	144	50	67	83	102	139	0	2	3	4	7
	Manipulation	1	4	7	10	17	1	3	6	9	16	0	0	1	1	2
	Arthrodesis	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	Amputation	0	0	0	1	2	0	0	0	1	2	0	0	0	0	0
	Arthroscopy	0	2	6	11	23	0	1	5	10	22	0	0	0	1	3
	Other Procedures	0	0	0	1	3	0	0	0	1	2	0	0	0	0	1
	TOTAL-Pelvis/Hip		157	200	230	272	347	142	183	215	253	327	7	11	15	20
Femur/Knee	Incision	1	5	8	12	19	1	4	6	10	18	0	0	1	2	4
	Excision	3	6	9	13	21	2	4	7	10	18	0	1	2	3	5
	Intro or Removal	0	0	0	1	3	0	0	0	1	2	0	0	0	0	1
	Repair/ Revisn/ Reconst	97	127	150	185	241	87	115	139	173	227	3	7	10	15	22
	Fracture and/or Dislocation	40	54	66	82	112	34	46	57	71	96	3	6	9	12	17
	Manipulation	2	5	7	11	22	1	3	5	8	16	0	1	2	3	7
	Arthrodesis	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	Amputation	0	1	3	4	8	0	1	2	4	7	0	0	0	0	1
	Arthroscopy	63	86	107	132	187	51	72	90	114	163	4	9	14	20	32
	Other Procedures	0	0	0	0	2	0	0	0	0	1	0	0	0	0	1
	TOTAL-Femur/Knee		276	329	372	425	522	238	285	325	375	471	24	35	43	53

Statistics are based upon primary credit role procedures logged by residents.

# ORTHOPAEDIC SURGERY : NATIONAL RESIDENT STATISTICS REPORT (Benchmarks Table)

Reporting Period: Total Experience of Residents Completing Programs in 2018-2019

Residency Review Committee for Orthopaedic Surgery

Report Date: September 26, 2019

[PART 4 ]		Programs in the Nation: 154					Residents in the Nation: 725									
		All Patients (Primary)					Adult (Primary)					Pediatric (Primary)				
		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															
Leg/Ankle	Incision	3	7	10	14	21	1	3	5	8	15	1	2	4	5	10
	Excision	1	3	5	8	12	1	2	4	5	9	0	1	1	2	4
	Intro or Removal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Repair/ Revisn/ Reconst	13	21	28	37	54	8	14	20	27	40	2	4	7	10	17
	Fracture and/or Dislocation	63	83	99	116	147	54	72	87	103	132	4	7	10	14	19
	Manipulation	3	10	17	30	52	1	6	12	23	42	0	2	4	6	12
	Arthrodesis	1	2	4	5	9	1	2	4	5	8	0	0	0	0	0
	Amputation	1	3	6	9	15	1	3	5	8	14	0	0	0	0	1
	Arthroscopy	1	3	5	8	14	1	2	4	7	14	0	0	0	1	2
	Other Procedures	0	0	1	1	3	0	0	0	1	2	0	0	0	0	1
	TOTAL-Leg/Ankle	130	164	189	217	270	103	134	156	179	229	17	26	31	37	48
Foot/Toes	Incision	0	1	2	4	8	0	1	2	3	7	0	0	0	1	2
	Excision	3	5	8	11	16	1	4	6	8	13	0	1	2	3	5
	Intro or Removal	0	0	0	1	2	0	0	0	0	2	0	0	0	0	1
	Repair/ Revisn/ Reconst	6	13	19	27	42	4	8	13	20	34	1	3	5	7	12
	Fracture and/or Dislocation	8	13	18	23	36	7	11	16	21	33	0	1	2	3	5
	Manipulation	0	0	1	3	6	0	0	1	2	6	0	0	0	0	1
	Arthrodesis	6	9	13	18	27	5	8	12	17	26	0	0	1	1	3
	Amputation	0	2	3	7	14	0	1	3	7	14	0	0	0	0	1
	Arthroscopy	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	Other Procedures	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	TOTAL-Foot/Toes	40	59	74	92	125	29	47	60	78	108	4	8	12	16	23

Statistics are based upon primary credit role procedures logged by residents.

**ORTHOPAEDIC SURGERY : NATIONAL RESIDENT STATISTICS REPORT (Benchmarks Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Orthopaedic Surgery**  
**Report Date: September 26, 2019**

[PART 5 ]		Programs in the Nation: 154					Residents in the Nation: 725									
		All Patients (Primary)					Adult (Primary)					Pediatric (Primary)				
		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															
Other Musculoskeletal	Incision	0	0	0	1	2	0	0	0	1	2	0	0	0	0	0
	Excision	1	3	4	8	17	0	2	4	6	13	0	0	1	1	3
	Intro or Removal	30	61	80	102	145	21	47	63	83	123	3	9	14	20	28
	Repair/ Revisn/ Reconst	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Fracture and/or Dislocation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Arthroscopy	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	Other Procedures	4	11	21	41	104	0	2	6	16	55	1	6	11	22	55
	TOTAL-Other Musclskel	52	90	116	153	244	30	60	82	114	186	10	22	32	44	76
Spine	Excision	0	0	0	1	2	0	0	0	0	1	0	0	0	0	1
	Fracture / Dislocation	0	0	1	3	11	0	0	1	2	10	0	0	0	0	1
	Decompression	8	15	23	35	57	8	15	23	34	56	0	0	0	0	1
	Osteotomy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Arthrodesis/Anterior	2	6	9	15	28	2	6	9	15	28	0	0	0	0	1
	Arthrodesis/Posterior	5	11	16	23	44	5	10	15	22	41	0	0	0	1	3
	Arthrodesis/Deformity	2	6	10	16	27	0	1	3	5	12	1	3	7	10	19
	Exploration	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
	Instrumentation	0	2	4	8	20	0	1	2	5	13	0	0	1	3	8
	Other Procedures	0	0	0	1	3	0	0	0	0	1	0	0	0	0	2
TOTAL - Spine	40	56	76	101	161	29	45	62	87	143	3	8	11	17	30	

Statistics are based upon primary credit role procedures logged by residents.

# ORTHOPAEDIC SURGERY : NATIONAL RESIDENT STATISTICS REPORT (Benchmarks Table)

Reporting Period: Total Experience of Residents Completing Programs in 2018-2019

Residency Review Committee for Orthopaedic Surgery

Report Date: September 26, 2019

[PART 6 ]		Programs in the Nation: 154					Residents in the Nation: 725									
		All Patients (Primary)					Adult (Primary)					Pediatric (Primary)				
		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															
Integumentary System	Incision/Excision	7	23	39	62	95	5	18	34	53	86	0	3	5	8	14
	Repair (Closure)	0	1	3	6	13	0	1	2	4	12	0	0	0	1	3
	Skin Grafts	0	1	2	4	8	0	0	2	3	7	0	0	0	0	1
	Flaps	0	0	1	1	4	0	0	0	1	4	0	0	0	0	0
	Other Procedures	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	TOTAL-Integumentary		10	29	49	74	112	8	24	43	65	100	1	3	6	9
Nervous System	Incision/Excision	0	0	0	1	3	0	0	0	1	3	0	0	0	0	0
	Neuroplasty	3	7	10	14	22	3	6	10	14	22	0	0	0	1	2
	Transection or Avulsion	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	Neurorrhaphy	0	1	2	3	7	0	1	2	3	6	0	0	0	0	1
	Carpal Tunnel	20	31	41	54	81	20	31	40	54	81	0	0	0	0	1
	Other Procedures	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL-Nervous System		31	43	56	73	103	30	42	55	72	98	0	0	1	1
Oncology Cases	TOTAL-Oncology Cases	18	27	36	48	75	14	23	31	41	66	1	3	4	7	13
Microsurgeries	TOTAL-Microsurgeries	1	5	9	17	53	1	4	9	15	48	0	0	0	1	4
Total Procedures	TOTAL-Credit Procedures	1,346	1,545	1,709	1,927	2,276	1,099	1,286	1,429	1,627	1,943	210	234	261	296	370
Reductions	Closed Reductions	56	82	111	147	226	18	37	59	90	157	22	36	47	63	95
	Open Simple Reductions	241	290	339	392	486	198	244	285	336	410	28	38	48	60	82
	Open Complex Reductions	25	38	49	63	87	23	35	45	59	82	1	2	3	5	7

Statistics are based upon primary credit role procedures logged by residents.

**ORTHOPAEDIC SURGERY : NATIONAL REPORT (Minimums Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Orthopaedic Surgery**  
**Report Date: September 26, 2019**

[PART 1 ]	Programs in the Nation: 154		Residents in the Nation: 725
	Natl Res AVE	Natl Prog AVE	Min Req'd
<b>Defined Categories and Procedure Groups</b>			
Knee Arthroscopy	86.5	88.7	30
Shoulder Arthroscopy	83.8	86.6	20
ACL Reconstruction	31.3	31.4	10
Total Hip Arthroplasty	101.3	100.1	30
Total Knee Arthroplasty	129.3	131.0	30
Hip Fractures	69.1	72.3	30
Carpal Tunnel Release	46.5	48.7	10
Spine Decompression/Fusion	50.7	51.1	15
Ankle Fracture Fixation	60.8	62.5	15
Closed Reduction Forearm/Wrist	62.4	62.4	20
Ankle/Hind/Mid Foot Arthro	15.1	15.3	5
Supracondylar Humerus Perc	20.9	21.4	5
Femur/Tibia Intramedullary Fix	61.3	63.3	25
Oncology Procedures	42.4	42.5	10
Pediatric Procedures	279.7	284.0	200

Statistics are based upon primary credit role procedures logged by residents.