



# 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 2017-2018**  
**Residency Review Committee for Orthopaedic Surgery**  
**Report Date: September 6, 2018**

[PART 1 ]		Programs in the Nation: 154 Residents in the Nation: 729														
		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	1.6	2	0	1	12	1.5	2	0	1	11	0.2	1	0	0	8
	Excision	4.2	3	0	3	32	3.7	3	0	3	31	0.5	1	0	0	7
	Intro or Removal	0.4	1	0	0	9	0.4	1	0	0	9	0.0	0	0	0	2
	Repair/ Revisn/ Reconst	35.0	22	0	30	210	34.4	22	0	30	207	0.6	1	0	0	10
	Fracture and/or Dislocation	24.7	16	0	21	151	22.3	15	0	19	150	2.4	2	0	2	14
	Manipulation	5.6	6	0	4	59	5.0	6	0	4	59	0.5	1	0	0	7
	Arthrodesis	0.1	0	0	0	2	0.1	0	0	0	2	0.0	0	0	0	0
	Amputation	0.2	0	0	0	3	0.2	0	0	0	3	0.0	0	0	0	1
	Arthroscopy	78.9	42	10	71	454	77.1	41	10	68	446	1.8	3	0	1	25
	Other Procedures	0.1	1	0	0	8	0.1	0	0	0	8	0.0	0	0	0	1
	<b>TOTAL-Shoulder</b>	<b>150.9</b>	60	36	142	531	<b>144.8</b>	59	36	136	520	<b>6.1</b>	4	0	5	35
Humerus/Elbow	Incision	2.7	3	0	2	22	2.3	2	0	2	21	0.4	1	0	0	5
	Excision	5.1	3	0	5	26	4.4	3	0	4	21	0.7	1	0	0	6
	Intro or Removal	0.7	1	0	0	7	0.5	1	0	0	5	0.2	1	0	0	4
	Repair/ Revisn/ Reconst	12.9	7	0	12	46	12.0	7	0	11	44	1.0	1	0	1	14
	Fracture and/or Dislocation	56.5	20	18	54	162	27.1	13	5	24	85	29.4	13	5	28	103
	Manipulation	9.0	8	0	7	81	4.6	6	0	3	67	4.4	5	0	3	37
	Arthrodesis	0.0	0	0	0	2	0.0	0	0	0	2	0.0	0	0	0	1
	Amputation	0.4	1	0	0	5	0.4	1	0	0	5	0.0	0	0	0	2
	Arthroscopy	1.9	2	0	1	18	1.5	2	0	1	15	0.4	1	0	0	6
	Other Procedures	0.2	1	0	0	7	0.2	1	0	0	7	0.1	0	0	0	4
	<b>TOTAL-Humerus/Elbow</b>	<b>89.6</b>	27	34	87	203	<b>52.9</b>	19	8	51	150	<b>36.7</b>	15	7	35	110

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 2017-2018**  
**Residency Review Committee for Orthopaedic Surgery**  
**Report Date: September 6, 2018**

[PART 2]		Programs in the Nation: 154					Residents in the Nation: 729									
		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	5.9	5	0	5	35	5.6	4	0	5	35	0.3	1	0	0	10
	Excision	11.0	7	0	10	39	9.9	6	0	8	37	1.1	1	0	1	8
	Intro or Removal	0.6	1	0	0	19	0.5	1	0	0	10	0.2	1	0	0	9
	Repair/ Revisn/ Reconst	13.8	9	0	12	78	12.4	8	0	11	73	1.5	2	0	1	19
	Fracture and/or Dislocation	53.2	25	3	49	203	42.3	21	3	39	154	10.9	10	0	9	88
	Manipulation	57.8	31	20	51	347	24.9	20	0	20	170	33.0	21	1	29	283
	Arthrodesis	1.9	2	0	1	14	1.8	2	0	1	13	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	3.8	5	0	3	41	3.7	5	0	2	41	0.2	0	0	0	3
	Other Procedures	0.1	1	0	0	9	0.1	1	0	0	9	0.0	0	0	0	2
	<b>TOTAL-Forearm/Wrist</b>	<b>148.7</b>	<b>50</b>	<b>62</b>	<b>140</b>	<b>432</b>	<b>101.5</b>	<b>41</b>	<b>22</b>	<b>96</b>	<b>319</b>	<b>47.3</b>	<b>23</b>	<b>11</b>	<b>43</b>	<b>286</b>
Hand/Fingers	Incision	26.9	15	1	24	124	24.7	15	0	21	122	2.2	2	0	2	14
	Excision	13.7	10	0	12	103	12.6	9	0	11	98	1.0	1	0	1	8
	Intro or Removal	0.8	2	0	0	31	0.8	2	0	0	29	0.1	0	0	0	3
	Repair/ Revisn/ Reconst	17.5	11	0	15	71	14.2	9	0	12	57	3.3	4	0	2	35
	Fracture and/or Dislocation	24.4	16	2	21	109	19.7	14	0	16	104	4.7	5	0	4	34
	Manipulation	9.6	15	0	5	187	6.9	13	0	3	183	2.7	4	0	1	25
	Arthrodesis	3.0	3	0	2	23	2.9	3	0	2	23	0.1	0	0	0	4
	Amputation	5.8	5	0	5	39	5.3	5	0	4	37	0.5	1	0	0	6
	Other Procedures	0.6	2	0	0	33	0.5	2	0	0	33	0.1	0	0	0	5
		<b>TOTAL-Hand/Fingers</b>	<b>102.2</b>	<b>46</b>	<b>22</b>	<b>94</b>	<b>303</b>	<b>87.5</b>	<b>42</b>	<b>14</b>	<b>80</b>	<b>273</b>	<b>14.7</b>	<b>9</b>	<b>0</b>	<b>14</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 2017-2018**  
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[PART 3 ]		Programs in the Nation: 154					Residents in the Nation: 729									
		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	6.3	5	0	5	27	3.8	3	0	3	21	2.5	3	0	2	19
	Excision	3.2	3	0	2	23	2.8	3	0	2	23	0.3	1	0	0	4
	Intro or Removal	2.8	3	0	2	28	2.0	2	0	1	21	0.9	1	0	0	13
	Repair/ Revisn/ Reconst	116.8	48	37	108	370	108.5	47	35	99	364	8.3	5	0	7	34
	Fracture and/or Dislocation	87.1	35	35	79	264	83.8	35	33	75	260	3.2	3	0	3	23
	Manipulation	8.2	7	0	7	47	7.3	6	0	6	43	0.8	1	0	0	6
	Arthrodesis	0.3	1	0	0	11	0.3	1	0	0	11	0.0	0	0	0	1
	Amputation	0.5	1	0	0	5	0.4	1	0	0	5	0.0	0	0	0	2
	Arthroscopy	9.2	12	0	5	109	8.2	11	0	4	109	1.1	2	0	0	15
	Other Procedures	1.0	1	0	0	9	0.7	1	0	0	7	0.3	1	0	0	9
	<b>TOTAL-Pelvis/Hip</b>	<b>235.3</b>	<b>69</b>	<b>107</b>	<b>225</b>	<b>541</b>	<b>217.9</b>	<b>68</b>	<b>97</b>	<b>208</b>	<b>519</b>	<b>17.4</b>	<b>9</b>	<b>2</b>	<b>16</b>	<b>58</b>
Femur/Knee	Incision	9.2	7	0	7	69	7.5	6	0	6	46	1.6	2	0	1	27
	Excision	10.9	7	0	9	41	8.8	6	0	7	39	2.1	2	0	2	16
	Intro or Removal	1.1	5	0	0	112	0.7	4	0	0	112	0.3	1	0	0	12
	Repair/ Revisn/ Reconst	159.3	57	46	150	449	147.7	56	37	138	445	11.6	8	0	10	53
	Fracture and/or Dislocation	67.2	27	18	62	197	57.5	25	14	53	177	9.6	6	0	9	39
	Manipulation	8.6	8	0	7	82	6.2	6	0	5	71	2.5	3	0	2	16
	Arthrodesis	0.4	1	0	0	5	0.4	1	0	0	5	0.0	0	0	0	2
	Amputation	3.5	4	0	3	35	3.3	3	0	2	34	0.2	0	0	0	3
	Arthroscopy	113.3	47	40	106	457	98.5	45	29	89	423	14.8	10	0	13	71
	Other Procedures	0.5	1	0	0	12	0.4	1	0	0	11	0.2	1	0	0	5
	<b>TOTAL-Femur/Knee</b>	<b>373.9</b>	<b>90</b>	<b>159</b>	<b>364</b>	<b>810</b>	<b>330.9</b>	<b>86</b>	<b>134</b>	<b>319</b>	<b>703</b>	<b>43.0</b>	<b>17</b>	<b>10</b>	<b>41</b>	<b>142</b>

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

**ORTHOPAEDIC SURGERY : NATIONAL RESIDENT REPORT (Main Table)**  
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**Report Date: September 6, 2018**

[PART 4 ]		Programs in the Nation: 154 Residents in the Nation: 729														
		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	10.8	7	0	9	66	6.3	6	0	5	59	4.5	4	0	4	41
	Excision	6.4	4	0	5	51	4.6	4	0	4	50	1.8	2	0	1	13
	Intro or Removal	0.0	0	0	0	6	0.0	0	0	0	6	0.0	0	0	0	1
	Repair/ Revisn/ Reconst	30.3	16	2	28	119	21.5	13	1	19	94	8.8	8	0	7	101
	Fracture and/or Dislocation	98.3	34	37	93	266	87.2	32	31	82	255	11.1	7	1	10	65
	Manipulation	22.7	21	0	17	159	17.5	19	0	12	134	5.2	5	0	4	30
	Arthrodesis	4.5	3	0	4	20	4.4	3	0	4	20	0.1	0	0	0	3
	Amputation	6.8	6	0	5	39	6.4	6	0	5	39	0.4	1	0	0	5
	Arthroscopy	6.5	6	0	5	40	6.0	6	0	5	40	0.5	1	0	0	5
	Other Procedures	1.0	2	0	1	18	0.9	1	0	0	18	0.1	0	0	0	3
	<b>TOTAL-Leg/Ankle</b>	<b>187.3</b>	<b>54</b>	<b>74</b>	<b>181</b>	<b>452</b>	<b>154.8</b>	<b>50</b>	<b>50</b>	<b>148</b>	<b>397</b>	<b>32.5</b>	<b>13</b>	<b>4</b>	<b>31</b>	<b>143</b>
Foot/Toes	Incision	3.3	4	0	2	32	2.6	3	0	2	24	0.7	2	0	0	22
	Excision	8.5	6	0	7	48	6.4	5	0	5	43	2.1	2	0	2	13
	Intro or Removal	0.8	1	0	0	11	0.5	1	0	0	9	0.3	1	0	0	5
	Repair/ Revisn/ Reconst	21.7	15	0	18	177	15.6	13	0	12	136	6.1	6	0	5	57
	Fracture and/or Dislocation	19.8	12	1	17	127	17.7	12	0	15	120	2.1	2	0	1	25
	Manipulation	2.2	4	0	1	57	1.9	3	0	1	54	0.3	1	0	0	6
	Arthrodesis	13.9	9	1	12	59	12.7	8	0	11	58	1.2	2	0	1	16
	Amputation	5.5	6	0	4	39	5.1	6	0	3	38	0.4	1	0	0	5
	Arthroscopy	0.2	1	0	0	10	0.2	1	0	0	10	0.0	0	0	0	1
	Other Procedures	0.3	1	0	0	10	0.2	1	0	0	10	0.1	0	0	0	5
	<b>TOTAL-Foot/Toes</b>	<b>76.2</b>	<b>34</b>	<b>14</b>	<b>69</b>	<b>294</b>	<b>62.9</b>	<b>31</b>	<b>9</b>	<b>56</b>	<b>236</b>	<b>13.3</b>	<b>8</b>	<b>1</b>	<b>12</b>	<b>73</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 2017-2018**  
**Residency Review Committee for Orthopaedic Surgery**  
**Report Date: September 6, 2018**

[PART 5 ]		Programs in the Nation: 154					Residents in the Nation: 729									
		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	0.9	3	0	0	47	0.7	3	0	0	44	0.1	1	0	0	6
	Excision	7.2	11	0	5	153	6.0	9	0	4	127	1.2	2	0	1	28
	Intro or Removal	85.1	49	0	78	355	69.6	45	0	61	336	15.5	9	0	14	80
	Repair/ Revisn/ Reconst	0.0	0	0	0	3	0.0	0	0	0	3	0.0	0	0	0	1
	Fracture and/or Dislocation	0.1	1	0	0	10	0.1	1	0	0	10	0.0	0	0	0	1
	Arthroscopy	0.2	1	0	0	20	0.2	1	0	0	20	0.0	0	0	0	4
	Other Procedures	43.1	57	0	21	437	20.6	35	0	6	281	22.5	31	0	11	360
	TOTAL-Other Musclskel	136.6	83	0	120	526	97.2	64	0	80	388	39.4	32	0	32	373
Spine	Excision	0.9	3	0	0	37	0.5	2	0	0	32	0.4	1	0	0	19
	Fracture / Dislocation	3.7	9	0	1	85	3.4	9	0	0	77	0.3	1	0	0	8
	Decompression	26.2	22	0	21	272	25.8	22	0	20	267	0.4	1	0	0	24
	Osteotomy	0.1	0	0	0	4	0.1	0	0	0	4	0.0	0	0	0	3
	Arthrodesis/Anterior	12.1	12	0	9	112	12.0	12	0	9	112	0.2	1	0	0	5
	Arthrodesis/Posterior	18.5	16	0	14	134	17.3	15	0	13	105	1.2	4	0	0	96
	Arthrodesis/Deformity	11.6	11	0	9	84	3.6	5	0	2	40	8.1	8	0	6	61
	Exploration	0.4	1	0	0	8	0.3	1	0	0	7	0.1	0	0	0	7
	Instrumentation	8.1	12	0	5	127	5.4	10	0	2	124	2.7	5	0	1	68
	Other Procedures	1.1	2	0	0	21	0.5	1	0	0	20	0.6	1	0	0	12
TOTAL - Spine	82.8	53	17	70	523	68.9	51	10	57	499	13.9	13	0	11	141	

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[PART 6 ]		Programs in the Nation: 154					Residents in the Nation: 729									
		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	47.0	39	0	38	363	40.7	35	0	32	343	6.3	6	0	5	39
	Repair (Closure)	5.1	6	0	3	52	4.3	6	0	2	51	0.8	1	0	0	9
	Skin Grafts	3.1	4	0	2	49	2.9	4	0	2	48	0.2	1	0	0	7
	Flaps	1.3	2	0	1	30	1.2	2	0	1	30	0.1	0	0	0	3
	Other Procedures	0.3	1	0	0	10	0.2	1	0	0	9	0.1	0	0	0	5
	TOTAL-Integumentary		56.9	43	0	47	388	49.5	39	0	40	363	7.4	6	0	6
Nervous System	Incision/Excision	0.9	1	0	1	10	0.9	1	0	1	8	0.0	0	0	0	2
	Neuroplasty	11.2	8	0	9	58	10.9	8	0	9	58	0.3	1	0	0	5
	Transection or Avulsion	0.2	1	0	0	7	0.2	1	0	0	6	0.0	0	0	0	7
	Neurorrhaphy	2.8	3	0	2	29	2.5	3	0	2	29	0.3	1	0	0	17
	Carpal Tunnel	46.3	26	11	40	197	46.0	26	11	40	196	0.3	1	0	0	5
	Other Procedures	0.1	0	0	0	8	0.0	0	0	0	3	0.0	0	0	0	8
	TOTAL-Nervous System		61.5	32	14	54	240	60.5	32	14	53	238	1.0	2	0	0
Oncology Cases	TOTAL-Oncology Cases	39.0	23	10	34	137	33.5	21	3	29	125	5.6	5	0	4	46
Microsurgeries	TOTAL-Microsurgeries	15.8	28	0	7	318	14.7	27	0	7	310	1.1	3	0	0	50
Reductions	Closed Reductions	120.7	76	26	102	733	71.7	61	3	54	620	49.0	29	4	44	308
	Open Simple Reductions	339.1	104	130	321	924	288.0	94	110	271	791	51.1	24	11	46	163
	Open Complex Reductions	50.9	25	5	46	206	47.3	24	2	43	197	3.6	3	0	3	19
Total Procedures	TOTAL-Credit Procedures	1,701.9	350	873	1,669	3,200	1,429.2	326	638	1,396	2,696	272.7	68	200	254	722

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 2017-2018

Residency Review Committee for Orthopaedic Surgery

Report Date: September 6, 2018

[PART 1 ]		Programs in the Nation: 154					Residents in the Nation: 729									
		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	9	0	2	3	5	8	0	0	0	1	2
	Intro or Removal	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	Repair/ Revisn/ Reconst	13	21	30	42	62	12	21	30	41	61	0	0	0	1	2
	Fracture and/or Dislocation	10	16	21	28	43	8	14	19	26	39	0	1	2	3	6
	Manipulation	1	2	4	6	12	0	2	4	6	11	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	36	55	71	91	126	35	54	68	89	122	0	0	1	2	5
	Other Procedures	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL-Shoulder		86	116	142	169	222	81	112	136	162	212	2	3	5	8	11
Humerus/Elbow	Incision	0	1	2	3	6	0	1	2	3	5	0	0	0	0	1
	Excision	1	3	5	6	10	1	2	4	6	9	0	0	0	1	2
	Intro or Removal	0	0	0	1	2	0	0	0	1	1	0	0	0	0	1
	Repair/ Revisn/ Reconst	5	9	12	16	21	4	8	11	15	19	0	0	1	1	3
	Fracture and/or Dislocation	32	45	54	65	83	13	19	24	31	44	14	22	28	34	48
	Manipulation	2	4	7	10	19	0	1	3	5	11	0	2	3	5	10
	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	0	0	1	3	5	0	0	1	2	4	0	0	0	0	1
	Other Procedures	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
TOTAL-Humerus/Elbow		59	73	87	100	124	30	41	51	61	79	21	28	35	41	56

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 2017-2018**  
**Residency Review Committee for Orthopaedic Surgery**  
**Report Date: September 6, 2018**

[PART 2 ]		Programs in the Nation: 154					Residents in the Nation: 729									
		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	7	11	1	3	5	7	11	0	0	0	0	1
	Excision	4	7	10	13	20	3	6	8	12	19	0	0	1	1	3
	Intro or Removal	0	0	0	1	2	0	0	0	0	1	0	0	0	0	1
	Repair/ Revisn/ Reconst	4	9	12	17	26	3	7	11	15	23	0	0	1	2	4
	Fracture and/or Dislocation	27	38	49	60	83	19	30	39	49	67	3	6	9	12	20
	Manipulation	26	39	51	68	96	6	13	20	30	50	12	20	29	39	61
	Arthrodesis	0	1	1	2	4	0	1	1	2	4	0	0	0	0	0
	Amputation	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
	Arthroscopy	0	1	3	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	93	120	140	165	211	56	77	96	116	157	23	34	43	55	76
Hand/Fingers	Incision	11	18	24	32	46	10	16	21	29	44	0	1	2	3	5
	Excision	4	8	12	16	25	3	8	11	15	23	0	0	1	1	3
	Intro or Removal	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0
	Repair/ Revisn/ Reconst	6	10	15	21	32	4	8	12	17	26	0	1	2	4	8
	Fracture and/or Dislocation	9	15	21	29	44	7	11	16	23	37	0	2	4	6	10
	Manipulation	0	2	5	10	23	0	1	3	6	19	0	0	1	3	7
	Arthrodesis	0	1	2	4	6	0	1	2	4	6	0	0	0	0	0
	Amputation	1	3	5	7	12	1	2	4	6	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	53	74	94	118	165	43	61	80	100	149	5	9	14	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 2017-2018**  
**Residency Review Committee for Orthopaedic Surgery**  
**Report Date: September 6, 2018**

[PART 3]		Programs in the Nation: 154					Residents in the Nation: 729									
		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	5	8	13	0	2	3	5	8	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	4	7	0	0	1	2	6	0	0	0	1	3
	Repair/ Revisn/ Reconst	65	89	108	132	179	57	82	99	123	168	2	5	7	10	15
	Fracture and/or Dislocation	52	66	79	96	134	49	63	75	93	131	0	2	3	4	7
	Manipulation	2	4	7	10	17	1	3	6	9	15	0	0	0	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	1	0	0	0	0	0
	Arthroscopy	0	2	5	9	23	0	1	4	8	22	0	0	0	1	4
	Other Procedures	0	0	0	1	3	0	0	0	1	2	0	0	0	0	1
	TOTAL-Pelvis/Hip		157	195	225	263	331	140	176	208	243	314	7	12	16	21
Femur/Knee	Incision	2	5	7	12	18	1	4	6	10	15	0	0	1	2	4
	Excision	3	6	9	14	21	2	5	7	11	18	0	1	2	3	5
	Intro or Removal	0	0	0	1	3	0	0	0	0	2	0	0	0	0	1
	Repair/ Revisn/ Reconst	95	123	150	182	233	83	113	138	169	222	4	7	10	14	22
	Fracture and/or Dislocation	38	50	62	76	105	31	42	53	66	92	3	6	9	12	17
	Manipulation	2	4	7	10	18	1	3	5	7	13	0	1	2	3	6
	Arthrodesis	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	Amputation	0	1	3	4	7	0	1	2	4	7	0	0	0	0	1
	Arthroscopy	64	85	106	129	168	53	72	89	112	152	4	8	13	18	28
	Other Procedures	0	0	0	0	2	0	0	0	0	1	0	0	0	0	1
	TOTAL-Femur/Knee		270	322	364	411	484	233	283	319	368	436	22	33	41	50

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 2017-2018

Residency Review Committee for Orthopaedic Surgery

Report Date: September 6, 2018

[PART 4 ]		Programs in the Nation: 154					Residents in the Nation: 729									
		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	6	9	13	19	1	3	5	8	13	1	2	4	6	10
	Excision	2	4	5	8	13	1	2	4	6	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	14	21	28	35	50	8	14	19	25	38	2	5	7	10	17
	Fracture and/or Dislocation	61	79	93	108	143	52	69	82	96	129	4	7	10	13	19
	Manipulation	3	10	17	27	50	1	5	12	22	42	0	2	4	6	12
	Arthrodesis	1	3	4	5	9	1	2	4	5	9	0	0	0	0	0
	Amputation	1	3	5	8	14	1	3	5	8	14	0	0	0	0	2
	Arthroscopy	1	3	5	8	14	1	3	5	7	13	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		127	155	181	207	251	99	126	148	175	216	19	26	31	37
Foot/Toes	Incision	0	1	2	3	9	0	1	2	3	7	0	0	0	1	2
	Excision	2	5	7	10	16	1	3	5	8	12	0	1	2	3	5
	Intro or Removal	0	0	0	1	2	0	0	0	1	2	0	0	0	0	1
	Repair/ Revisn/ Reconst	7	13	18	26	41	3	8	12	18	32	1	3	5	7	12
	Fracture and/or Dislocation	8	13	17	23	34	7	11	15	21	31	0	1	1	2	5
	Manipulation	0	0	1	2	5	0	0	1	2	5	0	0	0	0	1
	Arthrodesis	5	8	12	16	25	4	7	11	15	24	0	0	1	1	3
	Amputation	0	2	4	6	13	0	1	3	6	13	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	56	69	89	119	30	45	56	73	102	6	9	12	16

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 2017-2018**  
**Residency Review Committee for Orthopaedic Surgery**  
**Report Date: September 6, 2018**

[PART 5 ]		Programs in the Nation: 154					Residents in the Nation: 729									
		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	0	2	0	0	0	0	0
	Excision	1	3	5	7	15	0	2	4	6	13	0	0	1	1	3
	Intro or Removal	30	57	78	101	150	21	44	61	83	129	5	10	14	19	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	10	21	45	115	0	2	6	17	58	2	6	11	23	60
	TOTAL-Other Musclskel	55	87	120	157	251	31	59	80	114	188	11	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	2	8	0	0	0	2	7	0	0	0	0	1
	Decompression	7	13	21	30	52	7	13	20	29	52	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	14	25	2	5	9	14	24	0	0	0	0	1
	Arthrodesis/Posterior	5	10	14	21	37	4	9	13	20	35	0	0	0	1	3
	Arthrodesis/Deformity	1	5	9	14	26	0	1	2	4	10	0	3	6	9	18
	Exploration	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	Instrumentation	0	2	5	9	18	0	1	2	5	13	0	0	1	3	7
	Other Procedures	0	0	0	1	3	0	0	0	0	1	0	0	0	0	2
TOTAL - Spine	37	53	70	92	139	27	40	57	77	125	3	7	11	16	27	

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 2017-2018

Residency Review Committee for Orthopaedic Surgery

Report Date: September 6, 2018

[PART 6 ]		Programs in the Nation: 154					Residents in the Nation: 729									
		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	9	22	38	59	98	6	18	32	51	86	1	3	5	8	14
	Repair (Closure)	0	1	3	6	13	0	1	2	5	11	0	0	0	1	2
	Skin Grafts	0	1	2	4	7	0	1	2	3	7	0	0	0	0	1
	Flaps	0	0	1	2	4	0	0	1	1	3	0	0	0	0	0
	Other Procedures	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	TOTAL-Integumentary		12	30	47	69	112	10	25	40	61	101	1	3	6	9
Nervous System	Incision/Excision	0	0	1	1	2	0	0	1	1	2	0	0	0	0	0
	Neuroplasty	3	6	9	13	22	3	6	9	13	21	0	0	0	0	1
	Transection or Avulsion	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	Neurorrhaphy	0	1	2	3	6	0	1	2	3	6	0	0	0	0	1
	Carpal Tunnel	20	30	40	54	80	19	29	40	53	80	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		28	42	54	71	102	28	41	53	71	101	0	0	0	1	3
Oncology Cases	TOTAL-Oncology Cases	15	24	34	47	69	12	20	29	40	61	1	2	4	7	12
Microsurgeries	TOTAL-Microsurgeries	0	3	7	13	37	0	3	7	12	35	0	0	0	1	3
Reductions	Closed Reductions	51	79	102	133	217	18	36	54	84	147	20	32	44	59	85
	Open Simple Reductions	229	279	321	374	467	185	234	271	317	402	26	37	46	59	80
	Open Complex Reductions	24	35	46	60	84	22	32	43	55	80	1	2	3	4	7
Total Procedures	TOTAL-Credit Procedures	1,299	1,489	1,669	1,862	2,146	1,051	1,228	1,396	1,580	1,860	208	231	254	291	354

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 2017-2018**  
**Residency Review Committee for Orthopaedic Surgery**  
**Report Date: September 6, 2018**

[PART 1 ]	Programs in the Nation: 154		Residents in the Nation: 729
	Natl Res AVE	Natl Prog AVE	Min Req'd
<b>Defined Categories and Procedure Groups</b>			
Knee Arthroscopy	83.9	86.1	30
Shoulder Arthroscopy	78.9	80.6	20
ACL Reconstruction	30.0	30.4	10
Total Hip Arthroplasty	98.9	96.8	30
Total Knee Arthroplasty	126.0	126.6	30
Hip Fractures	64.8	68.0	30
Carpal Tunnel Release	46.3	48.6	10
Spine Decompression/Fusion	44.7	44.4	15
Ankle Fracture Fixation	59.0	60.6	15
Closed Reduction Forearm/Wrist	57.7	58.3	20
Ankle/Hind/Mid Foot Arthro	13.9	14.0	5
Supracondylar Humerus Perc	20.4	20.8	5
Femur/Tibia Intramedullary Fix	59.3	61.2	25
Oncology Procedures	39.0	39.2	10
Pediatric Procedures	272.7	273.9	200

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