



## Accreditation Council for Graduate Medical Education

### Surgery Case Logs

#### National Data Report

**Prepared by:** Department of Applications and Data Analysis

- I. National Resident Statistics Main Table
  - A. The 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 role (surgeon, assistant, etc).
  - B. Descriptive statistics have been carefully chosen to provide the most useful information for judging performance at the 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 a set of data.
    - iii. "Natl Res MAX" - This statistics represents the maximum value seen among procedure counts.
- II. National Benchmark Table for Program Statistics

The table displays selected percentile and standard deviation benchmarks of program averages. For example, a score at the 10th percentile indicates that 10% of programs achieved averages less than the value while the remaining 90% achieved more than the value.

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.

**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 1 ]

Number of Programs in the Nation: 249    Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total		
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX
RRC Area	RRC Procedure									
SKIN/SOFT TIS	MAJ LYMPHADENECTOMIES	0.7	1	10	1.8	2	16	2.5	3	16
	MAJ EXC & REP/GRAFT FOR SKIN NEOPLASM	2.3	3	38	10.6	9	109	12.9	11	130
	SENTINEL LYMPH NODE BIOPSY FOR MELANOMA	0.8	1	11	2.8	3	28	3.7	4	29
	RAD EXCIS SOFT TIS TUMOR	0.8	1	12	2.2	3	28	3.1	3	35
	PILONIDAL CYSTECTOMY	0.8	1	9	4.8	3	23	5.6	4	25
	OTHER MAJOR SKIN/SOFT TIS	6.8	6	42	30.5	17	123	37.3	19	130
	Subtotal - SKIN/SOFT TIS	12.2	8	58	52.8	22	155	65.0	25	170
HEAD/NECK	RESECT LESION-LIPS	0.0	0	1	0.1	0	6	0.1	0	6
	RESECT LESION-TONGUE	0.0	0	2	0.2	1	10	0.2	1	10
	RESECT LESION-FLOOR MOUTH/BUCCAL MUC	0.0	0	1	0.1	0	3	0.1	0	3
	PAROTIDECTOMY	0.1	1	8	0.6	1	14	0.7	1	14
	RESECT OTHER SALIVARY GLND	0.0	0	2	0.1	0	4	0.1	0	4
	RADICAL NECK DISSECT	0.3	1	8	1.0	2	17	1.3	2	17
	RESECT MANDIBLE/MAXILLA	0.0	0	1	0.0	0	3	0.0	0	3
	TRACHEOSTOMY	2.5	3	28	11.2	8	79	13.7	10	81
	OTHER MAJOR HEAD/NECK	1.0	2	13	5.5	5	76	6.5	6	78
	Subtotal - HEAD/NECK	4.1	4	35	18.7	12	97	22.7	13	105
BREAST	BREAST BIOPSY	1.2	3	26	11.4	12	85	12.6	13	87
	SENTINEL LYMPH NODE BIOPSY (BREAST)	1.0	2	21	3.3	4	29	4.2	5	38
	SIMPLE MASTECTOMY	2.0	3	39	9.8	7	53	11.8	8	76
	MOD RAD MASTECTOMY	0.7	1	11	3.4	3	23	4.1	3	25
	RADICAL MASTECTOMY	0.1	0	13	0.2	1	20	0.2	1	33
	EXC BX/QUADRANT EXC W/WO AX SAMPLING	4.0	6	47	21.6	14	138	25.6	15	179
	BREAST RECONSTRUCTION	0.7	3	47	4.7	8	60	5.4	9	71
	OTHER MAJOR BREAST	0.5	1	10	2.3	2	16	2.8	3	23
	Subtotal - BREAST	10.1	12	102	56.6	25	205	66.7	28	263

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.

**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 2 ]

Number of Programs in the Nation: 249    Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total			
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	
RRC Area	RRC Procedure										
ALIM TR-ESOPHAGUS	ESOPHAGECTOMY	0.5	1	11	0.6	1	8	1.2	2	17	
	ESOPHAGO-GASTRECTOMY	0.3	1	7	0.6	1	8	0.9	1	9	
	ANTIREFLUX PROC-OPEN	0.3	1	6	0.4	2	29	0.7	2	29	
	ANTIREFLUX PROC-LAPAROSCOPIC	5.3	5	45	5.1	5	45	10.4	8	65	
	ESOPHAGEAL BYPASS PROCEDURE	0.0	0	2	0.0	0	2	0.1	0	3	
	REPAIR OF PERF-ESOPH DISEASE	0.0	0	1	0.0	0	3	0.1	0	3	
	OTHER OPS FOR ESOPHAGEAL STENOSIS	0.1	0	3	0.1	0	4	0.1	0	4	
	ESOPHAGEAL DIVERTICULECTOMY	0.1	0	2	0.1	0	3	0.2	0	3	
	OTHER MAJOR ESOPHAGUS	0.2	1	8	0.3	1	8	0.5	1	9	
	Subtotal - ALIM TR-ESOPHAGUS		6.8	6	63	7.3	6	54	14.1	9	74
ALIM TR-STOMACH	GASTROSTOMY (ALL TYPES)-OPEN	1.2	1	13	3.1	3	40	4.3	4	49	
	GASTROSTOMY (ALL TYPES)-LAPAROSCOPIC	0.8	1	13	3.3	4	24	4.0	4	29	
	GASTRIC RESECT, PARTIAL-OPEN	1.7	2	46	1.6	2	30	3.4	3	75	
	GASTRIC RESECT, PARTIAL-LAPAROSCOPIC	6.3	10	73	9.3	13	89	15.6	18	127	
	GASTRIC RESECT, TOTAL	0.6	1	7	0.4	1	8	1.0	1	9	
	VAGOTOMY, TRUN/SEL W/DRAINAGE/RES-OPEN	0.1	0	3	0.1	0	4	0.2	0	4	
	VAGOTOMY, TRUN/SEL W/DRAINAGE/RES-LAPAR	0.0	0	1	0.0	0	1	0.0	0	1	
	REPAIR PERF-GASTRIC DIS	1.2	1	9	1.9	2	11	3.0	2	15	
	PROX GAST VAGOTOMY, HIGHLY SELECT-OPEN	0.0	0	1	0.0	0	2	0.0	0	2	
	PROX GAST VAGOTOMY, HIGHLY SELECT-LAPAR	0.0	0	2	0.0	0	1	0.0	0	2	
	GASTRIC REDUC FOR MORBID OBESITY (ALL)	1.7	5	71	4.0	10	134	5.8	13	163	
	GASTRIC REDUC FOR MORBID OBESITY-LAP	2.7	6	98	1.9	4	45	4.6	8	143	
	OTHER MAJOR STOMACH [no open/close dist]	1.2	2	12	2.6	3	40	3.8	4	40	
	Subtotal - ALIM TR-STOMACH		17.5	14	126	28.1	20	188	45.6	27	238

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.

**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 3 ]

Number of Programs in the Nation: 249    Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total			
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	
RRC Area	RRC Procedure										
ALIM TR-SMALL INT	ENTEROLYSIS - OPEN	2.1	3	23	2.8	3	18	4.9	4	26	
	ENTEROLYSIS-LAPAROSCOPIC	1.8	3	41	2.5	3	51	4.2	5	67	
	ENTERECTOMY - OPEN	7.4	4	48	11.4	6	41	18.9	8	66	
	ENTERECTOMY-LAPAROSCOPIC	0.6	1	7	0.8	1	21	1.5	2	21	
	REPAIR PERF-DUODENAL DIS	0.2	0	3	0.2	0	3	0.3	1	4	
	REPAIR PERF-SMALL BOWEL DIS	1.0	1	10	1.8	2	10	2.8	2	13	
	ILEOSTOMY (NOT ASSOC W/COLECTOMY)-OPEN	0.8	1	9	1.7	2	19	2.4	2	25	
	ILEOSTOMY (NOT ASSOC W/COLECTOMY)-LAP	0.8	1	8	1.2	2	13	2.0	2	17	
	DIVERTICULECTOMY	0.1	0	2	0.3	1	5	0.4	1	5	
	OTHER MAJOR SMALL INT	1.1	1	9	2.0	2	20	3.0	3	28	
	Subtotal - ALIM TR-SMALL INT		15.8	7	61	24.6	10	92	40.4	13	116
ALIM TR-LARGE INT	APPENDECTOMY-OPEN	1.0	1	19	4.0	4	31	5.0	4	32	
	APPENDECTOMY-LAPAROSCOPIC	13.5	10	99	52.0	22	171	65.6	26	197	
	COLOSTOMY (ALL TYPES)	2.7	2	18	4.7	3	27	7.4	4	29	
	COLOSTOMY CLOSURE	1.7	2	16	3.1	3	19	4.8	5	28	
	COLECTOMY/PROCTECTOMY-OPEN	14.3	7	58	20.6	9	68	34.9	13	92	
	COLECTOMY/PROCTECTOMY-LAPAROSCOPIC	12.9	10	64	13.5	10	86	26.4	16	127	
	COLECTOMY W/ ILEOANAL PULL-THRU	0.1	0	7	0.2	1	6	0.3	1	8	
	COLECTOMY W/ CONTINENT RECONSTRUCT	0.1	0	5	0.2	1	7	0.3	1	7	
	ABDOMINO-PERINEAL RESECTION	1.3	2	16	1.4	2	14	2.7	3	21	
	TRANSANAL RECTAL TUMOR EXCISION	0.4	1	12	0.6	1	9	1.1	2	17	
	REPAIR PERF-COLON DIS	0.4	1	7	0.5	1	6	0.9	1	8	
	OTHER MAJOR LARGE INT	0.4	1	6	0.7	1	7	1.1	1	10	
	Subtotal - ALIM TR-LARGE INT		48.8	19	152	101.5	32	217	150.3	39	298

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.

**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 4 ]

Number of Programs in the Nation: 249    Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total		
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX
RRC Area	RRC Procedure									
ALIM TR-ANO-RECTAL	HEMORRHOIDECTOMY (ALL)	2.6	3	32	8.5	6	47	11.1	7	50
	SPHINCTEROTOMY/SPHINCTEROPLASTY	0.3	1	10	1.1	2	16	1.4	2	24
	DRAINAGE PROC FOR ANORECTAL ABSCESS	2.2	2	17	7.4	5	33	9.7	6	40
	REPAIR ANORECTAL FISTULA	0.5	1	26	0.9	1	15	1.4	2	31
	OTHER OPERATIONS FOR ANAL INCONTINENCE	0.0	0	2	0.1	0	3	0.1	0	3
	REPAIR RECTAL PROLAPSE	0.5	1	7	0.7	1	12	1.1	1	14
	OTHER MAJOR ANO-RECTAL	3.8	4	37	9.2	6	43	12.9	8	57
	Subtotal - ALIM TR-ANO-RECTAL	9.9	9	70	27.8	13	102	37.7	16	120
ABDOMEN-GENERAL	EXP LAP EXCLUSIVE OF TRAUMA-OPEN	7.3	6	63	15.6	10	77	22.9	13	95
	EXP LAP EXCLUSIVE OF TRAUMA-LAPAR	5.6	5	38	11.9	10	127	17.5	12	165
	DRAINAGE INTRA-ABDOMINAL ABSCESS	0.2	1	7	0.5	1	23	0.7	1	25
	MAJ RETROPERIT/PELVIC NODE DISSEC-OPEN	0.2	1	7	0.1	0	4	0.3	1	8
	OTHER MAJOR AB-GENERAL-LAP COMPLEX	0.4	1	16	0.6	1	17	1.0	2	18
	OTHER MAJOR AB-GENERAL	1.7	2	22	2.6	3	38	4.3	4	48
	Subtotal - ABDOMEN-GENERAL	15.4	10	112	31.3	17	168	46.7	22	202
ABDOMEN-LIVER	LOBECTOMY OR SEGMENTECTOMY	3.0	3	26	2.6	3	17	5.5	5	29
	WEDGE RESECTION/OPEN BIOPSY	0.7	1	9	1.0	1	10	1.7	2	15
	DRAINAGE LIVER ABSCESS	0.2	1	4	0.3	1	6	0.6	1	6
	OTHER MAJOR LIVER	0.9	2	18	1.2	2	19	2.1	2	24
	Subtotal - ABDOMEN-LIVER	4.8	4	37	5.1	4	30	9.9	6	42

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.

**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 5 ]

Number of Programs in the Nation: 249    Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total		
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX
RRC Area	RRC Procedure									
ABDOMEN-BILIARY	CHOLECYSTOSTOMY	0.1	0	5	0.1	1	12	0.3	1	17
	CHOLECYSTECTOMY W/WO OPER GRAMS-OPEN	2.8	3	38	5.7	4	25	8.4	5	45
	CHOLECYSTECTOMY W/WO OPER GRAMS-LAPAR	34.8	17	132	86.8	35	235	121.6	42	275
	COMMON BILE DUCT EXPLOR-OPEN	0.4	1	7	0.4	1	6	0.8	1	10
	COMMON BILE DUCT EXPLOR-LAPAR	0.3	1	9	0.5	1	10	0.7	1	11
	CHOLEDOCHOENTERIC ANASTOMOSIS	0.7	1	13	0.7	1	14	1.5	2	16
	SPHINCTEROPLASTY (ODDI)	0.0	0	2	0.0	0	3	0.1	0	3
	OTHER MAJOR BILIARY	0.2	1	8	0.2	1	9	0.4	1	9
	Subtotal - ABDOMEN-BILIARY		39.3	17	134	94.5	36	243	133.8	42
ABDOMEN-PANCREAS	DRAINAGE PANCREATIC ABSCESS	0.0	0	4	0.0	0	4	0.1	0	5
	RESECTION FOR PANCREATIC NECROSIS	0.3	1	7	0.4	1	11	0.6	1	11
	PANC RESECTION, DISTAL	1.7	2	18	1.0	1	11	2.8	3	18
	PANC RESECTION, WHIPPLE	3.4	4	32	1.7	2	19	5.1	5	34
	PANC RESECTION, TOTAL	0.2	1	7	0.1	0	6	0.3	1	7
	DRAINAGE PSEUDOCYST (ALL TYPES)	0.1	0	4	0.2	0	3	0.3	1	5
	PANCREATICOJEJUNOSTOMY	0.2	0	4	0.1	0	2	0.2	1	4
	OTHER MAJOR PANCREAS	0.3	1	6	0.3	1	5	0.6	1	7
	Subtotal - ABDOMEN-PANCREAS		6.2	6	47	3.8	3	29	10.0	7
ABDOMEN-SPLEEN	SPLENECTOMY FOR DISEASE-OPEN	0.6	1	6	0.7	1	7	1.3	1	9
	SPLENECTOMY FOR DISEASE-LAPAR	0.5	1	6	0.6	1	5	1.2	1	7
	Subtotal - ABDOMEN-SPLEEN		1.1	1	7	1.3	1	10	2.4	2
ABDOMEN-HERNIA	INGUINAL-FEMORAL (ALL)-OPEN	10.2	7	58	36.1	16	152	46.3	18	164
	INGUINAL-FEMORAL (ALL)-LAPAROS	15.1	12	73	25.0	15	97	40.1	21	147
	VENTRAL	13.2	8	62	36.6	14	111	49.9	17	136
	OTHER MAJOR HERNIAS	0.1	0	5	0.4	1	5	0.5	1	5
	Subtotal - ABDOMEN-HERNIA		38.7	18	142	98.1	32	279	136.8	36

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.

**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 6 ]      Number of Programs in the Nation: 249      Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total			
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	
RRC Area	RRC Procedure										
VASC - ANEURYSM REPAIR	OPEN REPAIR INFRARENAL A-I ANEURYSM, RUPTURED	0.1	0	3	0.2	0	3	0.2	1	4	
	OPEN REPAIR INFRARENAL A-I ANEURYSM, ELECTIVE	0.2	1	7	0.5	1	12	0.8	1	13	
	ENDOVASCULAR REPAIR ABD AORTIC/ILIAC ANEURYSM	0.7	2	16	2.0	3	23	2.7	4	39	
	ENDOVASCULAR REPAIR OF ILIAC ARTERY	0.0	0	2	0.1	0	3	0.1	0	3	
	REPAIR SUPRARENAL AORTIC ANEURYSM	0.0	0	2	0.1	0	4	0.1	0	4	
	REPAIR THORACIC AORTIC ANEURYSM	0.0	0	2	0.0	0	6	0.0	0	6	
	ENDOVASCULAR REPAIR THORACIC AORTIC ANEURYSM	0.2	1	7	0.4	1	8	0.6	1	8	
	REPAIR THORACOABDOMINAL AORTIC ANEURYSM	0.0	0	5	0.1	0	6	0.2	0	6	
	REPAIR FEMORAL ANEURYSM	0.2	1	5	0.5	1	7	0.7	1	9	
	REPAIR POPLITEAL ANEURYSM	0.1	0	4	0.1	0	5	0.2	1	5	
	REPAIR OTHER ANEURYSM - DEF CAT CREDIT	0.0	0	2	0.1	0	3	0.1	0	3	
	Subtotal - VASC-ANEURYSM REPAIR		1.6	3	23	4.1	4	33	5.6	6	48
	VASC - CEREBROVASCULAR	CAROTID ENDARTERECTOMY	2.3	4	30	5.9	6	31	8.2	7	42
REOPERATIVE CAROTID SURGERY		0.0	0	2	0.0	0	2	0.0	0	3	
TRANSCATHETER PLACEMENT CAROTID ARTERY STENT		0.1	0	5	0.2	1	6	0.3	1	7	
EXCISE CAROTID BODY TUMOR		0.0	0	2	0.0	0	2	0.1	0	3	
VERTEBRAL BYPASS OR REIMPLANTATION /TRANSPOSITION		0.0	0	1	0.0	0	1	0.0	0	2	
DIRECT REPAIR AORTIC ARCH BRANCHES		0.0	0	1	0.0	0	1	0.0	0	2	
TRANSLUMINAL BALLOON ANGIOPLASTY - BRACHIOCEPHALIC		0.0	0	1	0.1	0	6	0.1	0	6	
TRANSCATHETER PLACE OF INTRAVASC STENT, NONCOR.		0.0	0	1	0.0	0	3	0.0	0	3	
CERVICAL BYPASS AORTIC ARCH BRANCHES		0.2	1	5	0.3	1	11	0.5	1	11	
EMBOLECTOMY/THROMBECTOMY BY NECK OR THORACIC INCIS		0.1	1	10	0.1	1	7	0.2	1	13	
OTHER MAJOR CEREBROVASCULAR - DEF CAT CREDIT		0.0	0	3	0.1	0	8	0.1	0	8	
Subtotal - VASC-CEREBROVASCULAR			2.7	4	34	6.8	6	35	9.5	8	49

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.

**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 7 ]      Number of Programs in the Nation: 249      Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total		
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX
RRC Area	RRC Procedure									
VASC - PERIPH OBSTRUCTIVE	AORTO-ILIO/FEMORAL ENDARTERECTOMY	0.1	1	7	0.3	1	6	0.4	1	7
	AORTO-ILIO/FEMORAL BYPASS, PROSTHETIC	0.3	1	8	0.5	1	9	0.8	1	14
	AORTO-ILIO/FEMORAL BYPASS, VEIN	0.0	0	3	0.1	0	5	0.1	0	5
	TRANSLUMINAL BALLOON ANGIOPLASTY AORTA OR ILIAC	0.3	1	15	1.1	2	28	1.4	2	32
	TRANSLUMINAL ATHERECTOMY AORTA OR ILIAC	0.0	0	5	0.1	0	8	0.1	0	8
	TRANSCATHETER PLACEMENT INTRAVASC STENT AORTA	0.1	0	9	0.2	1	8	0.3	1	9
	ILIO-ILIAC/FEMORAL ENDARTERECTOMY	0.1	0	5	0.3	1	26	0.4	1	27
	EXCISE INFECTED GRAFT, ABDOMEN OR CHEST	0.0	0	1	0.0	0	2	0.0	0	2
	REPAIR GRAFT-ENTERIC/AORTO-ENTERIC FISTULA	0.0	0	1	0.0	0	1	0.0	0	1
	FEMORAL, PROFUNDA ENDARTERECTOMY	0.6	1	11	1.4	2	15	2.0	3	19
	FEMORAL-POPLITEAL BYPASS, VEIN	0.6	1	9	1.6	2	17	2.2	3	24
	FEMORAL-POPLITEAL BYPASS, PROSTHETIC	0.4	1	8	1.1	2	16	1.4	2	18
	TRANSLUMINAL BALLOON ANGIOPLASTY FEMORAL-POPLITEAL	0.5	2	32	2.1	4	36	2.6	4	48
	TRANSLUMINAL ATHERECTOMY FEMORAL-POPLITEAL	0.1	0	7	0.3	1	21	0.4	1	21
	ENDARTERECTOMY, SUPERFICIAL FEMORAL, POPLITEAL	0.2	1	9	0.7	1	10	0.9	1	11
	INFRAPOPLITEAL BYPASS, VEIN	0.5	1	10	1.4	2	17	1.8	2	23
	INFRAPOPLITEAL BYPASS, PROSTHETIC	0.1	0	6	0.3	1	6	0.4	1	6
	TRANSLUMINAL BALLON ANGIOPLASTY, TIBIOPERONEAL	0.2	1	9	0.6	1	23	0.8	2	27
	TRANSLUMINAL ATHERECTOMY, TIBIOPERONEAL	0.0	0	11	0.1	1	12	0.2	1	12
	TRANSCATHETER PLACE OF INTRAVASCULAR STENT NON-COR	0.0	0	2	0.1	0	7	0.1	1	8
	EXCISE INFECTED GRAFT, PERIPHERAL	0.1	0	3	0.5	1	9	0.6	1	9
	REVISE ARTERIAL BYPASS	0.1	1	12	0.3	1	6	0.5	1	12
	ARTERIAL EMBOLECTOMY/THROMBECTOMY BY LEG INCISION	0.4	1	6	1.3	2	11	1.7	2	13
	GRAFT THROMBECTOMY	0.1	0	9	0.2	1	6	0.2	1	10
	ADJUNCTIVE VEIN CUFF OR AVF	0.0	0	7	0.0	0	3	0.0	0	7
	HARVEST ARM VEIN	0.0	0	2	0.1	0	4	0.1	0	4
	COMPOSITE LEG BYPASS GRAFT	0.0	0	2	0.0	0	2	0.0	0	4
	RE-DO LOWER EXTREMITY BYPASS	0.0	0	3	0.1	0	4	0.1	0	4
	OTHER MAJOR PERIPHERAL - DEF CAT CREDIT	0.0	0	1	0.0	0	2	0.0	0	2
	Subtotal - VASC-PERIPH OBST	5.0	8	68	14.8	12	106	19.8	15	155

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.



**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 8 ]      Number of Programs in the Nation: 249      Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total		
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX
RRC Area	RRC Procedure									
VASC - ABDOMINAL OBSTRUCTIVE	CELIAC/SMA ENDARTERECTOMY, BYPASS	0.1	0	7	0.1	0	4	0.2	1	7
	RENAL ENDARTERECTOMY, BYPASS	0.0	0	2	0.0	0	2	0.0	0	2
	EMBOLECTOMY/THROMBECTOMY, RENAL	0.1	0	2	0.1	0	3	0.1	0	3
	TRANSLUMINAL BALLOON ANGIOPLASTY, RENAL	0.0	0	2	0.1	0	3	0.1	0	3
	TRANSLUMINAL ATHERECTOMY, RENAL	0.0	0	1	0.0	0	2	0.0	0	3
	TRANSCATHETER PLACE OF STENT, RENAL ARTERY	0.0	0	3	0.1	0	3	0.1	0	3
	Subtotal - VASC-ABDOMINAL OBSTRUCT		0.2	1	7	0.4	1	6	0.6	1
VASC - UPPER EXTREMITY	OPEN BRACHIAL ARTERY EXPOSURE	0.0	0	3	0.1	1	8	0.2	1	8
	ARM BYPASS,ENDARTERECTOMY,REPAIR	0.2	1	6	0.5	1	6	0.7	1	7
	TRANSCATH PLACE OF INTRAVASC STENT, NON	0.0	0	2	0.1	0	4	0.1	0	6
	THORACIC OUTLET DECOMPRESSION PROC	0.1	0	6	0.3	1	16	0.3	1	18
	EMBOLECTOMY/THROMBECTOMY, BY ARM INCISION	0.2	0	3	0.6	1	11	0.7	1	11
	Subtotal - VASC-UPPER EXTREMITY		0.5	1	10	1.5	2	19	2.0	2
VASC - EXTRA-ANATOMIC	AXILLO-FEMORAL BYPASS	0.2	0	5	0.4	1	10	0.6	1	10
	AXILLO-POPLITEAL-TIBIAL BYPASS	0.0	0	1	0.0	0	1	0.0	0	1
	FEMORAL-FEMORAL BYPASS	0.2	1	6	0.7	1	10	1.0	1	13
	Subtotal - VASC-EXTRA-ANATOMIC		0.4	1	8	1.2	2	15	1.6	2
VASC - THROMBOLYSIS/MECH	TRANSLUMINAL MECHANICAL THROMBECTOMY	0.1	0	6	0.3	1	8	0.3	1	8
	THROMBOLYSIS, TRANSARTERIAL, TRANSCATHETER	0.1	0	8	0.2	1	7	0.3	1	9
	EXCHANGE OF THROMBOLYSIS CATHETER	0.0	0	4	0.1	0	6	0.1	0	8
	Subtotal - VASC-THROMBOLYSIS/MECH THROMB		0.2	1	8	0.5	1	11	0.7	1
VASC - MISC ENDOVASC THERAP	ENDO PLACE OF ILIAC ARTERY OCCLUSION DEV	0.0	0	2	0.0	0	2	0.0	0	2
	TRANSCATHETER THERAPY, INFUSION NON	0.0	0	0	0.0	0	2	0.0	0	2
	TRANSCATHETER RETRIEVAL OF INTRAVASCULAR	0.0	0	0	0.0	0	3	0.0	0	3
	TRANSCATHETER ARTERIAL OCCLUSION OR	0.0	0	2	0.1	0	7	0.2	1	7
	Subtotal - VASC-MISC ENDOVASC THERA		0.1	0	3	0.2	1	8	0.2	1

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.

**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 9 ]

Number of Programs in the Nation: 249    Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total		
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX
RRC Area	RRC Procedure									
VASC - TRAUMA	EXPOSURE OF THORACIC VESSELS	0.0	0	2	0.0	0	1	0.0	0	2
	REPAIR THORACIC VESSELS	0.0	0	7	0.1	2	63	0.1	2	63
	EXPOSURE OF NECK VESSELS	0.0	0	3	0.0	0	1	0.0	0	3
	REPAIR NECK VESSELS	0.0	0	2	0.0	0	2	0.0	0	2
	EXPOSURE OF ABDOMINAL VESSELS	0.0	0	3	0.0	0	5	0.1	0	5
	REPAIR ABDOMINAL VESSELS	0.0	0	6	0.1	0	11	0.1	1	17
	EXPOSURE OF PERIPHERAL VESSELS	0.1	0	3	0.2	1	8	0.3	1	8
	REPAIR PERIPHERAL VESSELS	0.2	1	4	0.6	1	9	0.9	1	11
	FASCIOTOMY	0.2	1	5	1.0	1	11	1.2	1	12
	Subtotal - VASC-TRAUMA	0.7	1	9	2.1	3	65	2.8	3	65
VASC - VENOUS	PORTAL-SYSTEMIC SHUNT	0.0	0	1	0.0	0	2	0.0	0	2
	OPERATION FOR VARICOSE VEINS	0.3	1	9	2.3	3	27	2.6	4	27
	SCLEROTHERAPY, PERIPH VEIN	0.0	0	4	0.1	1	14	0.1	1	14
	EMBOLECTOMY/THROMBECTOMY, VENOUS	0.0	0	3	0.1	0	5	0.1	0	5
	ENDOLUMINAL ABLATION	0.2	1	20	1.5	4	47	1.7	4	50
	OPERATIONS FOR VENOUS ULCERATION	0.0	0	2	0.0	0	3	0.0	0	3
	VENOUS RECONSTRUCTION	0.1	0	7	0.1	1	14	0.2	1	14
	TRANSLUMINAL BALLOON ANGIOPLASTY, VENOUS	0.1	1	10	0.9	3	31	1.0	3	31
	TRANSLUMINAL MECHANICAL THROMBECTOMY, VENOUS	0.0	0	2	0.1	0	3	0.1	0	3
	THROMBOLYSIS, TRANSVENOUS, TRANSCATHETER	0.0	0	4	0.1	0	5	0.1	0	5
	EXCHANGE OF THROMBOLYSIS CATH	0.0	0	0	0.0	0	1	0.0	0	1
	INTERRUPTION OF IVC	0.2	1	14	1.7	3	31	1.9	3	31
	REPAIR A-V MALFORMATION	0.0	0	1	0.0	0	2	0.0	0	2
	Subtotal - VASC-VENOUS	1.0	2	24	6.9	8	57	7.9	8	62

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.

**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 10 ]

Number of Programs in the Nation: 249    Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total		
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX
RRC Area	RRC Procedure									
VASC - ENDOVASCULAR DIAGNOSTIC	ARTERIOGRAPHY	1.2	4	42	5.0	8	103	6.2	9	103
	VENOGRAPHY	0.3	1	16	2.0	7	73	2.3	7	73
	ANGIOSCOPY	0.0	1	29	0.1	0	6	0.1	1	35
	INTRAVASCULAR ULTRASOUND	0.0	0	0	0.0	0	2	0.0	0	2
	Subtotal - VASC-ENDOVASC DIAG	1.5	4	42	7.1	11	103	8.6	13	103
VASC - MISCELLANEOUS VASCULAR	EXPLORATION OF ARTERY	0.4	1	12	1.5	3	45	1.8	3	46
	POSTOPERATIVE EXP. FOR BLEED, THROMB, INFECT	0.2	1	9	0.5	1	11	0.7	1	16
	MAJOR VASCULAR LIGATION	0.5	1	9	2.7	2	17	3.2	3	17
	INJECT PSEUDOANEURYSM	0.0	0	3	0.0	0	2	0.0	0	3
	SPINE EXPOSURE	0.2	2	52	0.3	1	24	0.5	3	56
	SYMPATHECTOMY	0.0	0	5	0.0	0	5	0.1	0	6
	LYMPHATIC PROCEDURE	0.0	0	2	0.0	0	2	0.1	0	2
	OTHER MISCELLANEOUS VASCULAR PROCEDURE	0.1	0	7	0.4	2	38	0.5	2	42
	Subtotal - VASC-MISCELLANEOUS	1.4	3	60	5.6	5	47	7.0	6	76
VASC - VASCULAR ACCESS	A-V FISTULA	2.8	5	93	13.5	10	121	16.3	12	134
	A-V GRAFT	1.2	2	29	5.4	6	66	6.5	7	67
	PERCUTANEOUS-OTHER ACCESS	0.3	2	27	2.0	5	61	2.3	6	86
	REVISION, A-V ACCESS	1.1	2	20	5.6	6	38	6.8	7	41
	Subtotal - VASC-VASC ACCESS	5.4	8	103	26.5	18	170	31.9	21	257

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.

**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 11 ]

Number of Programs in the Nation: 249    Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total		
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX
RRC Area	RRC Procedure									
VASC - AMPUTATIONS	AMPUTATION, DIGIT	0.2	1	9	2.3	3	21	2.5	3	24
	AMPUTATION, TRANSMETATARSAL	0.4	1	8	2.5	3	27	2.9	4	31
	AMPUTATION, BELOW KNEE	0.9	2	13	5.0	4	23	5.9	4	28
	AMPUTATION, ABOVE KNEE	0.5	1	7	3.6	3	24	4.1	3	28
	AMPUTATION, UPPER EXTREMITY	0.0	0	2	0.1	0	5	0.1	0	5
	AMPUTATION CLOSURE, REVISION	0.1	0	5	0.6	1	11	0.7	1	12
	Subtotal - VASC-AMPUTATIONS		2.3	3	23	14.0	10	79	16.3	11
ENDOCRINE	THYROIDECTOMY, PARTIAL OR TOTAL	6.0	6	52	13.8	11	82	19.8	13	119
	PARATHYROIDECTOMY	3.1	4	40	6.5	6	41	9.7	8	80
	ADRENALECTOMY	1.3	2	13	0.9	1	12	2.2	2	17
	PANCREATIC ENDOCRINE PROC	0.9	2	19	0.6	1	14	1.5	2	21
	OTHER MAJOR ENDOCRINE	0.0	0	2	0.0	0	3	0.1	0	3
	Subtotal - ENDOCRINE		11.2	11	95	22.0	16	137	33.2	20
HAND	SOFT TISSUE REPAIR/GRAFT	0.0	0	1	0.0	0	2	0.0	0	2
	TENDON REPAIR/TRANSFER	0.1	0	8	0.3	1	10	0.4	1	17
	NERVE REPAIR	0.0	0	5	0.2	1	5	0.2	1	5
	VASCULAR REPAIR	0.0	0	1	0.0	0	1	0.0	0	2
	REPLANTATION	0.0	0	1	0.0	0	2	0.0	0	2
	OTHER MAJOR HAND	0.2	1	30	1.7	4	47	1.8	4	50
	Subtotal - HAND		0.3	2	41	2.2	4	50	2.5	5

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.

**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 12 ]

Number of Programs in the Nation: 249    Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total		
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX
RRC Area	RRC Procedure									
THORACIC	EXPLOR THORACOTOMY-OPEN	1.0	2	35	3.6	4	76	4.6	4	76
	EXPLOR THORACOTOMY W/WO BX-THORACOS	0.8	2	20	4.0	4	38	4.7	5	48
	PLEURODESIS-THORACOSCOPIC	0.7	1	13	2.9	3	21	3.5	3	24
	REPAIR DIAPH HERNIA	0.2	1	9	0.4	1	12	0.6	1	12
	EXCISION MEDIASTINAL TUMOR	0.2	1	13	0.8	2	22	1.0	2	26
	PNEUMONECTOMY	0.0	0	2	0.3	1	5	0.3	1	5
	LOBECTOMY/SEGMENTAL RESECT LUNG-OPEN	0.6	1	18	2.3	3	23	2.8	3	30
	LOBECTOMY/SEGMENTAL RESECT LUNG-THORACOS	1.0	3	28	3.4	4	31	4.4	5	48
	WEDGE RESECTION LUNG-OPEN	0.0	0	7	0.3	1	8	0.3	1	8
	WEDGE RESECTION LUNG-THORACOSCOPIC	1.0	2	22	3.9	5	33	4.9	5	35
	THORACIC OUTLET DECOMPRESS PROC	0.1	0	10	0.2	1	16	0.2	1	16
	OPEN DRAINAGE OF EMPYEMA	0.0	0	3	0.1	0	3	0.1	0	3
	PERICARDIECTOMY	0.2	1	8	0.8	1	13	1.1	2	14
	PERICARD WINDOW FOR DRAINAGE-THORACOSCOPI	0.1	0	5	0.4	1	6	0.6	1	10
	PACEMAKER INSERTION	0.0	0	6	0.5	2	16	0.6	2	16
	CARDIAC PROCEDURES	0.7	4	94	2.6	7	137	3.3	9	140
	SYMPATHECTOMY, THORACOLUMBAR-THORACOSCOPI	0.0	0	4	0.2	1	7	0.2	1	8
	ESOPHAGOMYOTOMY (HELLER)-THORACOSCOPIC	0.0	0	9	0.0	0	2	0.1	0	9
	OTHER MAJOR THORACIC	1.0	2	26	4.9	5	65	5.8	6	65
	Subtotal - THORACIC	7.7	12	123	31.5	20	271	39.1	25	274

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.

**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 13 ]

Number of Programs in the Nation: 249    Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total		
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX
RRC Area	RRC Procedure									
PEDIATRIC	HERNIORRHAPHY, INGUINAL/UMBILICAL	0.8	2	26	13.0	8	91	13.9	9	93
	REP BRANCHIAL CLEFT ANOM/THYRO DUCT CYST	0.0	0	3	0.4	1	5	0.4	1	6
	REPAIR DEFORMITY CHEST WALL	0.0	0	5	0.6	1	18	0.6	1	18
	REPAIR DIAPHRAGMATIC HERNIA	0.0	0	5	0.2	1	4	0.3	1	5
	ANTIREFLUX PROCEDURE-OPEN (PEDS)	0.0	0	1	0.0	0	2	0.0	0	2
	ANTIREFLUX PROCEDURE-LAPAROSCOPIC (PEDS)	0.1	0	4	0.7	2	21	0.8	2	21
	REP ESOPH ATRESIA/TRACHEO-ESOPH FIST	0.0	0	3	0.2	0	5	0.2	1	5
	REP INTESTINAL ATRESIA/STENOSIS	0.1	0	6	1.0	1	12	1.1	1	12
	REPAIR PYLORIC STENOSIS	0.1	1	5	1.8	2	17	1.9	2	17
	OPERATION FOR MALROTATION/INTUSSUSCEPT	0.1	0	4	0.8	1	9	0.9	1	9
	PROC FOR MECONIUM ILEUS/NEC ENTEROCOLIT	0.0	0	2	0.2	1	5	0.3	1	5
	DEFIN OP FOR HIRSCHSPRUNGS/IMPERF ANUS	0.1	0	6	0.5	1	5	0.5	1	6
	EXC WILMs TUMOR/NEUROBLASTOMA	0.0	0	3	0.1	0	4	0.2	0	5
	REP OMPHALOCELE/GASTROSCHISIS	0.1	0	4	0.7	1	6	0.7	1	6
	REPAIR OF EXSTROPHY	0.0	0	0	0.0	0	2	0.0	0	2
	REPAIR EPI- AND HYPO-SPADIAS	0.0	0	6	0.3	1	13	0.3	1	13
	ORCHIOPEXY	0.1	0	7	1.3	2	19	1.4	2	19
	OTHER MAJOR PEDIATRIC	0.1	1	7	1.6	2	19	1.7	2	19
	Subtotal - PEDIATRIC	1.8	4	37	23.3	13	131	25.1	14	133

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.

**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 14 ]

Number of Programs in the Nation: 249    Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total		
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX
RRC Area	RRC Procedure									
GENITO-URINARY	HYDROCELECTOMY	0.0	0	7	0.4	1	9	0.4	1	9
	CYSTOSTOMY	0.0	0	2	0.1	0	11	0.1	0	11
	CYSECTOMY	0.0	0	1	0.1	0	3	0.1	0	3
	NEPHRECTOMY (W/ DONOR NEPH SEE TRANSPLT)	0.4	1	12	1.2	2	11	1.6	2	14
	ILEAL URINARY CONDUIT	0.0	0	2	0.0	0	2	0.1	0	2
	OTHER MAJOR GENITO-URINARY	0.2	0	5	0.8	1	24	1.0	2	24
	OTHER MAJOR GENITO-URINARY - LAP BASIC	0.2	1	6	0.5	1	11	0.6	1	12
	OTHER MAJOR GENITO-URINARY - LAP COMPLEX	0.0	0	3	0.1	0	6	0.1	0	6
	Subtotal - GENITO-URINARY	0.8	1	13	3.1	3	31	3.9	4	32
GYNECOLOGY	HYSTERECTOMY (ALL)	0.1	0	7	0.3	1	17	0.4	1	17
	SALPINGO-OOPHORECTOMY	0.1	0	3	0.3	1	7	0.4	1	8
	OTHER MAJOR GYNECOLOGY	0.1	1	11	0.7	2	48	0.9	2	48
	OTHER MAJOR GYNECOLOGY - LAPAROSCOPIC	0.0	0	7	0.2	1	26	0.2	1	31
	Subtotal - GYNECOLOGY	0.4	1	13	1.5	4	51	1.9	4	51
PLASTIC	REPAIR CLEFT LIP/CLEFT PALATE	0.0	0	4	0.1	1	10	0.1	1	10
	MAJOR RECONSTRUCTIVE PROC	0.6	1	22	3.2	4	61	3.8	5	61
	SKIN-GRAFTING, NONBURN (ALL)	0.5	1	14	3.7	5	102	4.2	5	102
	COMPOSITE TISSUE TRANSFER	0.8	2	22	1.9	3	31	2.7	4	32
	BURN DEBRIDEMENT AND/OR GRAFTING	0.3	1	34	7.3	12	119	7.6	12	121
	REDUCTION AND STABILIZATION OF MAXILLOFACIAL FRACTURES	0.0	0	6	0.4	2	23	0.5	2	23
	OTHER MAJOR PLASTIC	0.9	2	32	5.7	7	113	6.7	8	145
	Subtotal - PLASTIC	3.2	5	61	22.4	20	198	25.6	21	250

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.

**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 15 ]

Number of Programs in the Nation: 249    Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total		
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX
RRC Area	RRC Procedure									
NERVOUS SYSTEM	CRANIAL DECOMPRESSION/EXPLORATION	0.0	0	1	0.0	0	4	0.0	0	4
	OTHER MAJOR NERVOUS SYSTEM	0.0	0	1	0.0	0	2	0.0	0	2
	Subtotal - NERVOUS SYSTEM	0.0	0	1	0.0	0	4	0.0	0	4
ORTHOPAEDICS	OPEN OPERATIONS ON BONE OR JOINTS	0.0	0	2	0.0	0	0	0.0	0	2
	ARTHROSCOPY	0.0	0	2	0.1	0	6	0.1	1	6
	OPEN REDUCTION OF OPEN/CLOSED FRACTURE	0.0	0	15	0.2	1	10	0.2	1	15
	CLOSED REDUCTION OF FRACTURE	0.1	1	16	0.3	1	19	0.3	2	24
	OTHER MAJOR ORTHOPAEDICS	0.1	0	7	0.5	1	15	0.6	1	15
	Subtotal - ORTHOPAEDICS	0.2	1	32	1.0	2	30	1.2	3	44
ORGAN TRANSPLANT	LIVER TRANSPLANT	0.2	1	21	1.0	2	17	1.2	2	21
	RENAL TRANSPLANT	0.9	3	47	5.4	6	61	6.3	7	61
	PANCREAS TRANSPLANT	0.0	0	2	0.2	1	7	0.2	1	9
	DONOR NEPHRECTOMY	0.3	1	27	1.4	3	36	1.7	3	58
	DONOR HEPATECTOMY	0.1	1	12	1.2	2	26	1.4	3	26
	EN BLOC ABD ORGAN RETRIEVAL	0.0	0	6	0.2	1	7	0.2	1	7
	OTHER MAJOR ORGAN TRANSPLANT	0.0	0	3	0.3	1	11	0.3	1	11
	Subtotal - ORGAN TRANSPLANT	1.6	5	59	9.6	10	88	11.3	12	127

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.



**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 16 ]

Number of Programs in the Nation: 249    Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total		
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX
RRC Area	RRC Procedure									
TRAUMA	DRAINAGE SUB/EXTRADURAL HEMATOMA	0.0	0	4	0.1	1	8	0.2	1	8
	ESOPH TRAUMA-CLOSURE/RESECT/EXCLUSION	0.0	0	2	0.0	0	2	0.1	0	4
	GASTRIC TRAUMA-CLOSURE/RESECT/EXCLUSION	0.2	0	4	0.3	1	8	0.5	1	8
	DUODENAL TRAUMA-CLOSURE/RESECT/EXCLUSION	0.0	0	2	0.0	0	2	0.1	0	2
	SM BOWEL TRAUMA-CLOSURE/RESECT/EXCLUSION	0.5	1	9	1.2	2	24	1.7	2	25
	COLON TRAUMA-CLOSURE/RESECT/EXCLUSION	0.6	1	10	1.4	2	17	2.0	2	19
	NECK EXPLOR FOR TRAUMA	0.3	1	6	0.9	1	8	1.2	1	9
	EXPLOR THORACOTOMY - OPEN	0.8	1	13	1.9	2	14	2.7	3	23
	EXPLOR THORACOTOMY - THORACOSCOPIC	0.1	0	7	0.4	1	12	0.5	1	12
	EXPLOR LAPAROTOMY - OPEN	2.0	3	23	6.2	5	53	8.1	6	53
	EXPLOR LAPAROTOMY - LAPAROSCOPIC	0.3	1	11	0.8	1	9	1.1	2	16
	SPLENECTOMY/SPLENORRHAPHY-OPEN	0.6	1	8	1.4	2	19	1.9	2	19
	REPAIR/DRAINAGE HEPATIC LACS-OPEN	0.4	1	6	0.8	1	10	1.2	2	13
	HEPATIC RESECTION FOR INJURY	0.1	0	2	0.1	0	6	0.2	1	6
	DRAINAGE PANCREATIC INJURY	0.0	0	2	0.0	0	3	0.1	0	4
	RESECTION OF PANCREATIC INJURY	0.1	0	3	0.2	0	4	0.2	1	5
	CLOSED REDUCT OF FRACTURE	0.0	0	2	0.0	0	2	0.0	0	4
	DEBRIDE/SUTURE MAJOR WOUNDS	0.5	1	23	2.1	3	47	2.6	4	53
	REPAIR BLADDER INJURY	0.1	0	3	0.2	1	3	0.4	1	4
	REPAIR URETERAL INJURY	0.0	0	2	0.0	0	1	0.0	0	2
	REPAIR/RESECT FOR KIDNEY TRAUMA	0.1	0	3	0.2	1	5	0.3	1	5
	REP THORAC AORTA, INNOMINATE, SUBCLAVIAN	0.0	0	2	0.0	0	3	0.1	0	3
	REPAIR OF CAROTID OR OTHER MAJOR NECK VESSELS	0.0	0	1	0.0	0	2	0.0	0	2
	REPAIR OF ABDOMINAL AORTA OR VENA CAVA	0.0	0	2	0.1	0	3	0.1	0	3
	REP PERIPHERAL VESSELS	0.1	0	5	0.3	1	7	0.5	1	10
	FASCIOTOMY FOR INJURY	0.2	1	6	0.6	1	8	0.8	1	11
	REPAIR OTHER MAJOR VASC INJURY (TR1)	0.1	0	2	0.1	0	4	0.2	1	5
	MANAGEMENT CARDIAC INJURY	0.1	0	2	0.1	0	3	0.2	1	3
	OTHER MAJOR TRAUMA	0.8	1	9	2.6	3	35	3.3	4	38
	Subtotal - TRAUMA	8.0	8	72	22.1	15	109	30.1	18	135

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.

**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 17 ]      Number of Programs in the Nation: 249      Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total		
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX
RRC Area	RRC Procedure									
ENDOSCOPY (NOT FOR MAJOR CREDIT)	LARYNGOSCOPY	0.1	1	24	0.4	1	22	0.5	2	24
	BRONCHOSCOPY	0.5	2	34	6.5	7	66	7.0	8	67
	SCLEROTHERAPY/BANDING ESOPH VARICES	0.0	0	1	0.0	0	6	0.0	0	6
	ESOPHAGO-GASTRO-DUODENOSCOPY	7.2	9	81	34.9	20	169	42.1	21	177
	PERCUTAN ENDO GASTROSTOMY (PEG)	1.9	3	34	9.6	9	62	11.5	11	72
	ERCP W/WO PAPILOTOMY	0.1	0	8	0.3	1	15	0.3	1	18
	SIGMOIDOSCOPY, RIGID/FLEXIBLE	0.6	2	19	2.4	3	29	3.0	4	39
	FLEXIBLE COLONOSCOPY W/WO BX/POLYPECT	14.1	18	140	56.5	33	226	70.6	31	300
	CHOLEDOCHOSCOPY	0.0	0	3	0.0	0	3	0.0	0	3
	CYSTO/URETHROSCOPY	0.0	1	14	0.8	3	45	0.8	3	45
	OTHER ENDOSCOPY	0.3	1	15	1.3	3	78	1.5	3	78
	Subtotal - ENDOSCOPY (NOT MAJOR CRED)	24.7	25	195	112.8	50	366	137.5	49	453
MISCELLANEOUS (NOT FOR MAJOR CREDIT)	REMOVE SKIN MOLES, SMALL TUMORS, ETC	0.5	1	17	5.4	7	52	5.9	7	53
	REMOVAL SUBCUT SMALL TUMORS, CYSTS, FBs	0.2	1	6	2.5	3	26	2.8	3	26
	REPAIR MINOR WOUNDS AND GRAFTS	0.1	0	5	1.3	3	54	1.4	3	54
	BANDING/INCISION THROMBOSED HEMORRHOID	0.1	0	5	0.4	1	11	0.5	1	11
	ENDORECTAL ULTRASOUND [MISCELLANEOUS]	0.0	0	1	0.0	0	4	0.0	0	4
	OTHER PROCEDURES	4.7	6	62	55.8	47	890	60.5	49	890
		Subtotal - MISC (NOT MAJOR CRED)	5.6	7	72	65.4	51	894	71.0	54

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.

**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 18 ]      Number of Programs in the Nation: 249      Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total		
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX
RRC Area	RRC Procedure									
PATIENT CARE (NOT FOR MAJOR CREDIT)	NON-OPERATIVE TRAUMA	9.8	17	136	43.2	43	430	53.0	43	430
	TEAM LEADER ASSMT AND RESUSCITATION	6.1	8	75	9.0	11	140	15.1	12	206
	Subtotal - PATIENT CARE (NOT MAJOR CRED)	15.9	21	165	52.2	46	442	68.1	45	442
SURGICAL CRITICAL CARE PAT MGMNT	VENTILATORY MANAGEMENT	5.2	8	84	20.7	24	491	25.9	23	491
	BLEED (NON-TRAUMA) > 3 UNITS	1.8	3	34	5.1	6	63	7.0	6	63
	HEMODYNAMIC INSTABILITY	4.3	7	47	13.3	13	97	17.6	12	97
	ORGAN DYSFUNCTION	4.2	7	76	13.6	18	222	17.7	18	222
	DYSRHYTHMIAS	1.4	3	31	5.7	9	147	7.1	9	147
	INVASIVE LINE MANAGE/MONITORING	3.9	7	49	16.3	24	503	20.2	24	503
	PARENTERAL/ENTERAL NUTRITION	2.8	5	38	11.4	21	455	14.2	21	455
	Subtotal - CRITCARE PAT MAN (NOT MAJ CRED)	23.6	33	272	86.1	99	1,935	109.7	94	1,935
CRITICAL CARE (NOT FOR MAJOR CREDIT)	CRITICAL CARE OTHER	0.0	0	4	1.1	3	33	1.1	3	33
OPHTHALMOLOGY (NOT FOR MAJOR CREDIT)	OPHTHALMOLOGY	0.0	0	1	0.0	0	4	0.0	0	4

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.

**SURGERY: NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 23, 2019**

[PAGE 19 ]

Number of Programs in the Nation: 249    Number of Residents in the Nation: 1,219

		Surgeon Chief			Surgeon Junior			Surgeon Total		
		Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX	Natl Res AVE	Natl Res STD	Natl Res MAX
RRC Area	RRC Procedure									
OTOLARYNGOLOGY (NOT FOR MAJOR CREDIT)	OTOLARYNGOLOGY	0.0	0	3	0.3	1	11	0.3	1	12
UROLOGY (NOT FOR MAJOR CREDIT)	UROLOGY	0.1	1	13	2.9	5	56	2.9	5	56
NEUROSURGERY (NOT FOR MAJOR CREDIT)	NEUROSURGERY	0.1	1	26	0.9	2	39	1.1	3	43
GYNECOLOGY (NOT FOR MAJOR CREDIT)	GYNECOLOGY	0.0	0	2	0.4	1	13	0.4	1	13
RADIOLOGY (NOT FOR MAJOR CREDIT)	RADIOLOGY	0.1	0	9	0.7	2	19	0.7	2	27
ULTRASOUND (NOT FOR MAJOR CREDIT)	MISCELLANEOUS ULTRASOUND	0.0	0	2	0.1	1	15	0.1	1	15
TRAUMA (NOT FOR MAJOR CREDIT)	OTHER TRAUMA	0.0	0	1	0.0	0	3	0.0	0	3
TOTAL FOR CREDIT	Major Operations	288.6	69	749	781.9	142	1,434	1,070.5	150	1,753
Non-Tracked Codes	Non-Tracked	1.8	4	43	15.3	14	124	17.2	16	126

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.

# SURGERY: NATIONAL PROGRAM STATISTICS REPORT (Benchmarks Table)

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

Residency Review Committee for Surgery

Report Date: September 23, 2019

[PAGE 1 ]

Number of Programs in the Nation: 249    Number of Residents in the Nation: 1,219

	Surgeon Chief					Surgeon Junior					Teach Assist					First Assist					Surgeon Total				
	Percentiles					Percentiles					Percentiles					Percentiles					Percentiles				
	10	30	50	70	90	10	30	50	70	90	10	30	50	70	90	10	30	50	70	90	10	30	50	70	90
SKIN/SOFT TIS	6	9	11	14	20	36	43	50	58	75	1	3	4	5	7	0	0	1	2	4	44	53	62	72	91
HEAD/NECK	1	2	3	5	9	9	13	17	22	32	0	0	1	1	3	0	0	0	1	2	11	16	21	28	39
BREAST	2	4	8	13	22	38	45	55	65	86	0	0	1	1	3	0	0	1	3	8	46	53	62	74	97
ALIM TR-ESOPHAGUS	2	4	6	8	14	3	5	7	8	12	0	0	0	0	0	0	0	0	1	2	7	9	13	16	22
ALIM TR-STOMACH	6	10	14	21	33	12	18	23	32	49	0	1	1	1	2	0	0	1	2	5	22	32	40	52	76
ALIM TR-SMALL INT	10	13	15	18	22	16	21	24	27	35	0	1	1	2	3	0	0	1	1	3	30	36	40	43	51
ALIM TR-LARGE INT	31	40	48	56	68	68	86	101	111	137	4	6	8	11	16	0	2	3	6	13	108	132	147	162	191
ALIM TR-ANO-RECTAL	3	6	9	12	17	16	21	26	31	41	0	1	1	2	3	0	0	0	1	3	24	30	35	41	52
ABDOMEN-GENERAL	7	11	14	18	24	18	24	29	34	49	1	1	2	2	4	0	1	1	2	5	27	36	43	54	69
ABDOMEN-LIVER	1	3	4	5	8	2	3	5	6	10	0	0	0	0	0	0	0	0	0	1	5	7	9	10	16
ABDOMEN-BILIARY	23	32	39	47	58	59	76	90	110	139	3	6	8	10	17	0	1	3	6	13	95	110	129	150	194
ABDOMEN-PANCREAS	1	3	4	7	12	1	2	3	5	7	0	0	0	0	0	0	0	0	1	1	4	6	8	11	18
ABDOMEN-SPLEEN	0	1	1	1	2	0	1	1	2	3	0	0	0	0	0	0	0	0	0	1	1	2	2	3	4
ABDOMEN-HERNIA	24	31	38	44	57	66	83	96	111	137	2	4	5	6	9	0	1	3	5	13	104	119	135	150	179
VASC - ANEURYSM REPAIR	0	0	1	2	5	1	2	4	5	9	0	0	0	0	0	0	0	0	1	2	2	3	5	7	12
VASC - CEREBROVASCULAR	0	1	2	4	8	2	4	6	9	14	0	0	0	0	0	0	0	0	1	2	3	5	9	13	20
VASC - PERIPH OBSTRUCTIVE	0	1	4	7	13	7	10	13	18	27	0	0	0	0	1	0	0	1	1	3	9	13	18	24	37
VASC - ABDOMINAL OBSTRUCTIVE	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
VASC - UPPER EXTREMITY	0	0	0	1	2	1	1	1	2	3	0	0	0	0	0	0	0	0	0	0	1	1	2	3	4
VASC - EXTRA-ANATOMIC	0	0	0	1	1	0	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3
VASC - THROMBOLYSIS/MECH THROMB	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
VASC - MISC ENDOVASC THERAP	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
VASC - TRAUMA	0	0	1	1	2	1	1	2	2	4	0	0	0	0	0	0	0	0	0	0	1	2	2	3	5
VASC - VENOUS	0	0	1	1	3	2	3	6	9	15	0	0	0	0	0	0	0	0	0	1	2	4	7	10	16
VASC - ENDOVASCULAR DIAGNOSTIC	0	0	0	1	5	1	2	4	8	18	0	0	0	0	0	0	0	0	0	1	1	3	5	10	24
VASC - MISCELLANEOUS VASCULAR	0	1	1	2	3	3	4	5	6	9	0	0	0	0	0	0	0	0	0	1	4	5	7	8	11
VASC - VASCULAR ACCESS	0	1	4	7	15	12	17	23	31	45	0	0	0	0	1	0	0	0	1	3	16	21	28	36	60
VASC - AMPUTATIONS	0	1	2	3	6	5	9	12	17	25	0	0	1	1	3	0	0	0	1	1	6	10	14	21	28
ENDOCRINE	3	7	9	13	20	8	14	18	25	37	0	0	0	0	1	0	0	1	2	4	17	22	28	36	52
HAND	0	0	0	0	1	0	1	1	2	6	0	0	0	0	0	0	0	0	0	1	0	1	1	3	7
THORACIC	1	3	5	10	20	17	23	29	35	51	0	0	0	0	1	0	0	1	4	8	23	29	36	42	64

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.

# SURGERY: NATIONAL PROGRAM STATISTICS REPORT (Benchmarks Table)

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

Residency Review Committee for Surgery

Report Date: September 23, 2019

[PAGE 1 ]

Number of Programs in the Nation: 249    Number of Residents in the Nation: 1,219

	Surgeon Chief					Surgeon Junior					Teach Assist					First Assist					Surgeon Total				
	Percentiles					Percentiles					Percentiles					Percentiles					Percentiles				
	10	30	50	70	90	10	30	50	70	90	10	30	50	70	90	10	30	50	70	90	10	30	50	70	90
PEDIATRIC	0	0	1	2	5	14	17	21	26	38	0	0	0	0	1	0	0	0	1	3	15	19	22	27	40
GENITO-URINARY	0	0	1	1	2	1	2	3	4	7	0	0	0	0	0	0	0	0	0	1	1	2	3	5	8
GYNECOLOGY	0	0	0	0	1	0	1	1	1	3	0	0	0	0	0	0	0	0	0	0	0	1	1	2	4
PLASTIC	1	2	2	4	6	10	14	18	25	40	0	0	1	1	2	0	0	0	1	4	12	16	22	27	44
NERVOUS SYSTEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORTHOPAEDICS	0	0	0	0	0	0	0	1	1	3	0	0	0	0	0	0	0	0	0	1	0	0	1	1	3
ORGAN TRANSPLANT	0	0	0	1	5	2	5	7	11	19	0	0	0	0	0	0	0	0	1	3	2	5	8	14	22
TRAUMA	2	4	6	9	18	11	15	19	25	38	0	1	1	2	4	0	0	1	1	3	16	21	26	33	52
ENDOSCOPY (NOT FOR MAJOR CREDIT)	6	12	19	33	50	65	94	109	131	166	0	0	1	1	3	0	0	1	1	4	101	113	129	147	196
MISCELLANEOUS (NOT FOR MAJOR CREDIT)	1	3	4	7	12	32	43	61	77	109	0	1	1	2	4	0	0	1	3	6	33	48	66	85	122
PATIENT CARE (NOT FOR MAJOR CREDIT)	1	7	12	21	34	20	37	47	60	86	0	0	0	0	1	0	0	0	0	0	46	51	59	71	97
SURGICAL CRITICAL CARE PAT MGMNT	2	9	17	29	54	36	56	74	98	141	0	0	0	0	1	0	0	0	0	0	64	82	99	117	154
TOTAL FOR CREDIT	232	260	283	308	356	657	720	770	833	919	30	34	39	46	57	3	15	30	51	108	931	1,007	1,054	1,116	1,229

Statistics are based upon primary credit procedures logged in the indicated roles, except Surgical Critical Care Patient Management, which includes all procedures.