



## Accreditation Council for Graduate Medical Education

### Vascular Surgery - Integrated 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 are broken out by role (surgeon, assistant, etc), indicating the resident's procedures with primary credit. Procedures with secondary credit are also shown.
  - 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 MIN" - The minimum number of procedures performed nationally.
    - ii. "Natl Res MAX" - The greatest number of procedures performed nationally.
  - C. The Defined Categories Table follows the main table.

**VASCULAR SURGERY - INTEGRATED : NATIONAL RESIDENT REPORT (Main Table)**

Reporting Period: Total Experience of Residents Completing Programs in 2013-2014

Residency Review Committee for Surgery

Report Date: October 16, 2014

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Number of Programs in the Nation: 16 Number of Residents in the Nation: 19

		Surgeon Chief			Surgeon Junior			Teach Assist			First Assist			Secondary Procedures			
		Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	
Area	RRC Procedure																
ANEURYSM REPAIR	OPEN REPAIR INFRARENAL A-I ANEURYSM,	1.3	0	6	0.8	0	5	0.0	0	0	0.0	0	0	0.2	0	2	
	OPEN REPAIR INFRARENAL A-I ANEURYSM, ELECTIVE	5.9	0	18	3.9	0	14	0.0	0	0	0.9	0	6	0.3	0	4	
	ENDOVASCULAR REPAIR ABD AORTIC/ILIAC	30.7	0	81	21.5	0	92	0.6	0	6	2.5	0	16	20.5	0	56	
	ENDOVASCULAR REPAIR OF ILIAC ARTERY	1.2	0	6	0.7	0	5	0.0	0	0	0.0	0	0	1.1	0	7	
	REPAIR SUPRARENAL AORTIC ANEURYSM	1.2	0	9	0.8	0	4	0.0	0	0	0.2	0	2	0.1	0	1	
	REPAIR THORACIC AORTIC ANEURYSM	0.1	0	2	0.4	0	3	0.0	0	0	0.1	0	1	0.0	0	0	
	ENDOVASCULAR REPAIR THORACIC AORTIC	6.3	1	13	4.7	0	29	0.1	0	1	0.4	0	2	2.4	0	7	
	REPAIR THORACOABDOMINAL AORTIC ANEURYSM	1.3	0	17	0.8	0	6	0.0	0	0	0.2	0	2	0.0	0	0	
	REPAIR FEMORAL ANEURYSM	2.2	0	6	2.8	0	14	0.1	0	1	0.0	0	0	1.0	0	4	
	REPAIR POPLITEAL ANEURYSM	1.6	0	6	1.8	0	7	0.0	0	0	0.2	0	1	0.1	0	1	
	REPAIR OTHER ANEURYSM - DEF CAT CREDIT	0.3	0	2	0.1	0	2	0.0	0	0	0.0	0	0	0.1	0	2	
	REPAIR OTHER ANEURYSM	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
	Subtotal - ANEURYSM REPAIR		52.2	1	113	38.4	1	151	0.7	0	6	4.3	0	25	25.7	0	66
	CEREBROVASCULAR	CAROTID ENDARTERECTOMY	28.7	0	76	21.4	1	44	0.6	0	10	2.9	0	13	0.8	0	4
REOPERATIVE CAROTID SURGERY		0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.6	0	3	
TRANSCATHETER PLACEMENT CAROTID ARTERY		5.4	0	22	4.7	0	19	0.2	0	4	0.6	0	4	0.1	0	1	
EXCISE CAROTID BODY TUMOR		0.6	0	2	0.2	0	2	0.0	0	0	0.0	0	0	0.0	0	0	
VERTEBRAL BYPASS OR REIMPLANTATION		0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	1	0.0	0	0	
DIRECT REPAIR AORTIC ARCH BRANCHES		0.3	0	1	0.3	0	1	0.0	0	0	0.1	0	1	0.2	0	1	
TRANSLUMINAL BALLOON		1.3	0	6	1.5	0	7	0.1	0	1	0.0	0	0	1.6	0	14	
TRANSLUMINAL ATHERECTOMY - BRACHIOCEPHALIC		0.1	0	1	0.1	0	1	0.0	0	0	0.1	0	1	0.1	0	1	
TRANSCATHETER PLACE OF INTRAVASC STENT,		1.3	0	6	0.8	0	5	0.0	0	0	0.1	0	1	0.2	0	2	
CERVICAL BYPASS AORTIC ARCH BRANCHES		2.9	0	7	1.8	0	6	0.0	0	0	0.2	0	1	0.7	0	5	
EMBOLECTOMY/THROMBECTOMY BY NECK OR		0.3	0	2	0.4	0	7	0.0	0	0	0.0	0	0	0.1	0	1	
OTHER MAJOR CEREBROVASCULAR - DEF CAT		0.3	0	2	0.4	0	2	0.0	0	0	0.0	0	0	0.0	0	0	
OTHER CEREBROVASCULAR		0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
Subtotal - CEREBROVASCULAR			41.1	0	93	31.6	2	66	0.9	0	10	3.8	0	15	4.3	0	18

Statistics for each role (surgeon chief, surgeon junior, teaching assistant, and first assistant) include only procedures for primary credit. Secondary procedures are shown separately and include all roles.

# VASCULAR SURGERY - INTEGRATED : NATIONAL RESIDENT REPORT (Main Table)

Reporting Period: Total Experience of Residents Completing Programs in 2013-2014

Residency Review Committee for Surgery

Report Date: October 16, 2014

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Number of Programs in the Nation: 16    Number of Residents in the Nation: 19

Area	RRC Procedure	Surgeon Chief			Surgeon Junior			Teach Assist			First Assist			Secondary Procedures		
		Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX
PERIPH	AORTO-ILIO/FEMORAL ENDARTERECTOMY	4.2	0	20	3.1	0	19	0.0	0	0	0.3	0	3	3.9	0	36
	AORTO-ILIO/FEMORAL BYPASS, PROSTHETIC	5.0	0	18	5.1	0	18	0.1	0	1	1.1	0	7	1.2	0	6
	AORTO-ILIO/FEMORAL BYPASS, VEIN	0.5	0	4	0.7	0	8	0.0	0	0	0.0	0	0	0.2	0	2
	TRANSLUMINAL BALLOON ANGIOPLASTY AORTA OR	6.5	0	28	6.7	1	33	0.3	0	5	0.0	0	0	16.0	0	69
	TRANSLUMINAL ATHERECTOMY AORTA OR ILIAC	0.3	0	2	0.1	0	1	0.0	0	0	0.0	0	0	0.3	0	3
	TRANSCATHETER PLACEMENT INTRAVASC STENT	3.5	0	22	2.1	0	19	0.1	0	1	0.1	0	1	8.0	0	59
	ILIO-ILIAC/FEMORAL ENDARTERECTOMY	2.6	0	13	1.8	0	5	0.0	0	0	0.2	0	2	2.0	0	8
	EXCISE INFECTED GRAFT, ABDOMEN OR CHEST	0.4	0	2	0.4	0	2	0.1	0	1	0.2	0	1	0.9	0	10
	REPAIR GRAFT-ENTERIC/AORTO-ENTERIC FISTULA	0.1	0	1	0.2	0	2	0.0	0	0	0.0	0	0	0.1	0	1
	FEMORAL, PROFUNDA ENDARTERECTOMY	9.0	0	25	6.7	0	23	0.2	0	3	0.3	0	2	17.7	0	53
	FEMORAL-POPLITEAL BYPASS, VEIN	7.7	0	20	6.8	0	22	0.1	0	1	0.5	0	4	1.4	0	6
	FEMORAL-POPLITEAL BYPASS, PROSTHETIC	4.4	0	15	5.1	0	15	0.1	0	1	0.3	0	2	1.2	0	6
	TRANSLUMINAL BALLOON ANGIOPLASTY	12.8	0	33	17.7	0	75	0.4	0	6	0.4	0	2	30.8	0	175
	TRANSLUMINAL ATHERECTOMY FEMORAL-POPLITEAL	1.5	0	6	2.4	0	6	0.1	0	1	0.1	0	1	0.9	0	6
	ENDARTERECTOMY, SUPERFICIAL FEMORAL,	1.4	0	4	1.7	0	6	0.0	0	0	0.1	0	1	3.9	0	12
	INFRAPOPLITEAL BYPASS, VEIN	9.4	0	28	9.1	0	25	0.1	0	1	0.8	0	5	0.9	0	2
	INFRAPOPLITEAL BYPASS, PROSTHETIC	2.3	0	8	2.1	0	9	0.0	0	0	0.2	0	3	0.2	0	1
	TRANSLUMINAL BALLON ANGIOPLASTY,	8.4	0	32	9.3	0	27	0.1	0	1	0.5	0	4	9.4	0	70
	TRANSLUMINAL ATHERECTOMY, TIBIOPERONEAL	0.4	0	3	1.1	0	12	0.0	0	0	0.0	0	0	0.5	0	5
	TRANSCATHETER PLACE OF INTRAVASCULAR STENT	11.1	0	50	20.2	0	80	0.2	0	2	0.7	0	4	30.9	0	124
	EXCISE INFECTED GRAFT, PERIPHERAL	1.9	0	10	2.8	0	17	0.0	0	0	0.1	0	1	1.8	0	5
	REVISE ARTERIAL BYPASS	2.5	0	8	2.8	0	8	0.0	0	0	0.2	0	2	1.3	0	7
	ARTERIAL EMBOLECTOMY/THROMBECTOMY BY LEG	6.0	0	26	6.3	0	18	0.2	0	1	0.3	0	2	9.3	0	30
	GRAFT THROMBECTOMY	0.7	0	7	1.0	0	7	0.0	0	0	0.1	0	1	1.0	0	5
	ADJUNCTIVE VEIN CUFF OR AVF	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	1.2	0	12
	HARVEST ARM VEIN	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	1.1	0	6
	COMPOSITE LEG BYPASS GRAFT	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	1.2	0	6
	RE-DO LOWER EXTREMITY BYPASS	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	2.9	0	11
	OTHER MAJOR PERIPHERAL - DEF CAT CREDIT	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR PERIPHERAL	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - PERIPH OBSTRUCTIVE	102.4	0	227	115.3	4	278	1.9	0	16	6.3	0	26	150.3	0	525

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Area	RRC Procedure															
ABDOMINAL	CELIAC/SMA ENDARTERECTOMY, BYPASS	1.6	0	8	1.3	0	6	0.0	0	0	0.2	0	1	0.5	0	3
	RENAL ENDARTERECTOMY, BYPASS	0.9	0	4	0.3	0	2	0.0	0	0	0.0	0	0	0.5	0	2
	EMBOLECTOMY/THROMBECTOMY, RENAL	0.7	0	3	0.2	0	2	0.0	0	0	0.1	0	1	0.3	0	2
	TRANSLUMINAL BALLOON ANGIOPLASTY,	1.5	0	4	2.3	0	12	0.0	0	0	0.2	0	1	4.7	0	17
	TRANSLUMINAL ATHERECTOMY, RENAL	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	TRANSCATHETER PLACE OF STENT, RENAL	2.9	0	9	3.9	0	18	0.0	0	0	0.3	0	3	12.8	0	129
	Subtotal - ABDOMINAL OBSTRUCTIVE	7.7	0	17	7.9	0	27	0.0	0	0	0.8	0	5	18.8	0	134
UPPER EXTREMITY	OPEN BRACHIAL ARTERY EXPOSURE	0.2	0	1	0.1	0	1	0.0	0	0	0.0	0	0	2.3	0	18
	ARM BYPASS,ENDARTERECTOMY,REPAIR	1.4	0	5	1.9	0	10	0.0	0	0	0.0	0	0	0.6	0	6
	TRANSCATH PLACE OF INTRAVASC STENT,	1.8	0	6	2.8	0	28	0.1	0	1	0.2	0	1	3.6	0	33
	THORACIC OUTLET DECOMPRESSION PROC	1.9	0	10	0.9	0	6	0.1	0	1	0.5	0	6	0.1	0	1
	EMBOLECTOMY/THROMBECTOMY, BY ARM	1.7	0	5	2.8	0	8	0.0	0	0	0.1	0	1	1.9	0	7
	Subtotal - UPPER EXTREMITY	6.9	0	14	8.6	0	38	0.2	0	2	0.7	0	7	8.5	0	52
EXTRA-ANATOMIC	AXILLO-FEMORAL BYPASS	2.0	0	10	2.1	0	9	0.1	0	1	0.3	0	3	0.5	0	2
	AXILLO-POPLITEAL-TIBIAL BYPASS	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	FEMORAL-FEMORAL BYPASS	4.2	0	17	4.4	0	10	0.1	0	1	0.2	0	2	2.4	0	11
	OTHER EXTRA-ANATOMIC	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - EXTRA-ANATOMIC	6.2	0	18	6.6	0	16	0.1	0	1	0.5	0	3	2.9	0	12
THROMBOLYSIS/MECH	TRANSLUMINAL MECHANICAL THROMBECTOMY	0.7	0	2	3.6	0	20	0.0	0	0	0.1	0	1	2.6	0	15
	THROMBOLYSIS, TRANSARTERIAL,	2.6	0	7	6.8	0	36	0.1	0	2	0.1	0	1	3.6	0	19
	EXCHANGE OF THROMBOLYSIS CATHETER	0.2	0	2	0.8	0	4	0.1	0	1	0.1	0	1	0.9	0	10
	Subtotal - THROMBOLYSIS/MECH THROMB	3.6	0	9	11.2	0	59	0.2	0	3	0.3	0	2	7.2	0	34

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Area	RRC Procedure															
MISC ENDOVASC	ENDO PLACE ILIAC ARTERY OCCLUS DEV (Sec Only)	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	1.7	0	6
	TRANSCATHETER THERAPY, INFUSION NON	0.0	0	0	0.2	0	1	0.0	0	0	0.0	0	0	0.4	0	4
	TRANSCATHETER RETRIEVAL OF INTRAVASCULAR	1.2	0	8	4.1	0	35	0.2	0	3	0.1	0	1	0.8	0	4
	TRANSCATHETER ARTERIAL OCCLUSION OR	5.6	0	34	8.4	0	67	0.1	0	1	0.2	0	3	4.8	0	14
	TRANSCATHETER PLACE OF WIRELESS SENSOR	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	1
	PRESSURE MEASUREMENTS FROM WIRELESS	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	1
	Subtotal - MISC ENDOVASC THERAP	6.7	0	34	12.6	0	68	0.3	0	3	0.2	0	3	7.9	0	19
TRAUMA	EXPOSURE OF THORASIC VESSELS	0.0	0	0	0.6	0	12	0.0	0	0	0.1	0	1	0.0	0	0
	REPAIR THORASIC VESSELS	0.1	0	1	0.1	0	1	0.0	0	0	0.1	0	1	0.1	0	2
	EXPOSURE OF NECK VESSELS	0.1	0	1	0.1	0	1	0.0	0	0	0.0	0	0	0.1	0	1
	REPAIR NECK VESSELS	0.2	0	1	0.3	0	2	0.0	0	0	0.0	0	0	0.1	0	1
	EXPOSURE OF ABDOMINAL VESSELS	0.1	0	1	0.4	0	3	0.0	0	0	0.0	0	0	0.4	0	3
	REPAIR ABDOMINAL VESSELS	1.5	0	10	0.4	0	2	0.0	0	0	0.1	0	1	0.3	0	2
	EXPOSURE OF PERIPHERAL VESSELS	0.6	0	3	0.3	0	4	0.0	0	0	0.0	0	0	1.5	0	12
	REPAIR PERIPHERAL VESSELS	3.4	0	13	8.6	0	85	0.1	0	1	0.2	0	2	7.1	0	101
	FASCIOTOMY	0.6	0	3	1.4	0	7	0.0	0	0	0.0	0	0	3.6	0	11
Subtotal - TRAUMA (VS)	6.6	0	20	12.1	0	87	0.1	0	1	0.3	0	2	13.2	0	119	
Major Vascular	Total - Major VS Procedures	233.4	2	483	244.3	9	634	4.3	0	28	17.2	0	59	238.9	0	750

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Area	RRC Procedure															
VENOUS	PORTAL-SYSTEMIC SHUNT	0.4	0	5	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	OPERATION FOR VARICOSE VEINS	6.1	0	39	10.0	0	41	0.2	0	2	0.1	0	1	11.4	0	65
	SCLECTHERAPY, PERIPH VEIN	0.2	0	1	0.8	0	12	0.0	0	0	0.0	0	0	0.4	0	2
	EMBOLECTOMY/THROMBECTOMY, VENOUS	0.2	0	1	0.2	0	1	0.0	0	0	0.1	0	1	0.2	0	2
	ENDOLUMINAL ABLATION	7.3	0	38	10.1	0	34	0.3	0	3	0.2	0	3	1.9	0	12
	OPERATIONS FOR VENOUS ULCERATION	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.1	0	1
	VENOUS RECONSTRUCTION	0.3	0	2	0.3	0	4	0.0	0	0	0.0	0	0	0.2	0	1
	TRANSLUMINAL BALLOON ANGIOPLASTY,	9.4	0	46	11.3	0	43	0.4	0	3	0.2	0	2	9.9	0	27
	TRANSLUMINAL MECHANICAL THROMBECTOMY,	1.2	0	3	2.1	0	8	0.0	0	0	0.0	0	0	1.2	0	6
	THROMBOLYSIS, TRANSVENOUS,	2.2	0	8	1.9	0	9	0.1	0	1	0.0	0	0	2.0	0	10
	EXCHANGE OF THROMBOLYSIS CATH	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.3	0	5
	INTERRUPTION OF IVC	6.6	0	30	13.4	0	75	0.6	0	8	0.1	0	1	1.7	0	11
	REPAIR A-V MALFORMATION	0.0	0	0	0.2	0	2	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER VENOUS OPERATION	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - VENOUS	33.8	0	121	50.3	1	149	1.4	0	17	0.7	0	4	29.4	0	77
ENDOVASCULAR	ARTERIOGRAPHY	32.2	0	140	51.2	0	134	1.1	0	10	1.4	0	10	303.1	0	820
	VENOGRAPHY	6.2	0	18	18.2	0	104	0.1	0	1	0.2	0	2	32.7	0	169
	ANGIOSCOPY	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.6	0	7
	INTRAVASCULAR ULTRASOUND	0.2	0	1	1.4	0	12	0.1	0	1	0.0	0	0	5.1	0	26
		Subtotal - ENDOVASCULAR DIAGNOSTIC	38.6	0	142	70.8	0	224	1.3	0	10	1.6	0	10	341.4	0
MISC VASCULAR	EXPLORATION OF ARTERY	1.4	0	6	2.1	0	17	0.1	0	1	0.0	0	0	22.1	0	90
	POSTOPERATIVE EXP. FOR BLEED, THROMB,	1.7	0	17	1.0	0	6	0.0	0	0	0.1	0	1	1.6	0	8
	MAJOR VASCULAR LIGATION	1.9	0	6	5.2	0	22	0.2	0	2	0.1	0	1	2.6	0	14
	INJECT PSEUDOANEURYSM	0.5	0	2	0.7	0	5	0.0	0	0	0.0	0	0	0.1	0	1
	SPINE EXPOSURE	1.3	0	13	2.7	0	22	0.1	0	1	0.0	0	0	1.4	0	17
	SYMPATHECTOMY	0.0	0	0	0.2	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	LYMPHATIC PROCEDURE	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MISCELLANEOUS VASCULAR	0.2	0	2	0.5	0	3	0.0	0	0	0.1	0	1	0.7	0	9
	Subtotal - MISCELLANEOUS VASCULAR	6.8	0	23	12.3	0	47	0.3	0	3	0.2	0	2	28.4	0	92

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		Surgeon Chief			Surgeon Junior			Teach Assist			First Assist			Secondary Procedures		
		Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX
Area	RRC Procedure															
VASCULAR ACCESS	A-V FISTULA	18.4	0	68	32.1	0	98	0.8	0	7	0.3	0	2	2.4	0	33
	A-V GRAFT	4.3	0	17	10.7	0	41	0.1	0	1	0.3	0	2	1.5	0	14
	PERCUTANEOUS-OTHER ACCESS	3.6	0	34	2.4	0	11	0.2	0	3	0.0	0	0	1.1	0	7
	REVISION, A-V ACCESS	7.9	0	26	13.1	0	38	0.1	0	1	0.2	0	3	3.2	0	21
	Subtotal - VASCULAR ACCESS	34.3	0	116	58.3	1	158	1.3	0	8	0.8	0	3	8.2	0	69
AMPUTATIONS	AMPUTATION, DIGIT	2.6	0	9	7.7	0	25	0.3	0	3	0.2	0	2	1.6	0	7
	AMPUTATION, TRANSMETATARSAL	2.6	0	14	8.2	0	21	0.3	0	2	0.4	0	2	0.9	0	6
	AMPUTATION, BELOW KNEE	6.5	0	16	11.4	2	21	1.2	0	5	0.3	0	2	0.5	0	4
	AMPUTATION, ABOVE KNEE	3.7	0	10	10.1	0	21	1.3	0	7	0.2	0	1	0.8	0	3
	AMPUTATION, UPPER EXTREMITY	0.2	0	3	0.4	0	3	0.1	0	1	0.2	0	2	0.1	0	1
	AMPUTATION CLOSURE, REVISION	0.6	0	4	2.1	0	9	0.1	0	2	0.1	0	1	0.1	0	2
	Subtotal - AMPUTATIONS	16.2	0	42	39.8	3	84	3.3	0	14	1.3	0	5	4.0	0	18
Minor Vascular	Total - Minor VS Procedures	129.8	1	421	231.5	8	566	7.5	0	43	4.5	0	15	411.4	1	959
Total Vascular	Total - VS Procedures	363.2	3	904	475.7	43	1,073	11.8	0	52	21.7	0	69	650.3	1	1,663
IMAGING/DIAGNOSTIC	CAROTID DUPLEX ULTRASOUND	12.1	0	99	34.2	0	142	0.0	0	0	0.0	0	0	0.0	0	0
	PERIPHERAL ARTERIAL PHYSIOL TEST	10.2	0	93	15.8	0	81	0.0	0	0	0.0	0	0	0.0	0	0
	PERIPH ARTERIAL DUPLEX ULTRASOUND	14.2	0	122	17.1	0	101	0.0	0	0	0.0	0	0	0.0	0	0
	VENOUS DUPLEX ULTRASOUND	12.3	0	111	30.4	0	169	0.1	0	1	0.0	0	0	0.0	0	0
	VISCERAL VASCULAR ULTRASOUND	7.8	0	106	13.5	0	91	0.0	0	0	0.0	0	0	0.0	0	0
	TRANSCRANIAL DOPPLER	5.6	0	101	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - IMAGING/DIAGNOSTIC STUDIES	62.2	0	501	110.9	0	512	0.1	0	1	0.0	0	0	0.0	0	0

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		Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX
Area	RRC Procedure															
SKIN/SOFT TIS	MAJ LYMPHADENECTOMIES	0.2	0	2	0.2	0	2	0.0	0	0	0.0	0	0	0.1	0	1
	MAJ EXC & REP/GRAFT FOR SKIN NEOPLASM	0.2	0	4	1.4	0	6	0.0	0	0	0.0	0	0	0.1	0	1
	SENTINEL LYMPH NODE BIOPSY FOR MELANOMA	0.1	0	2	0.1	0	2	0.0	0	0	0.0	0	0	0.1	0	2
	RAD EXCIS SOFT TIS TUMOR	0.1	0	1	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	PILONIDAL CYSTECTOMY	0.1	0	1	0.7	0	2	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR SKIN/SOFT TIS	3.6	0	14	6.1	0	17	0.1	0	1	0.1	0	1	1.8	0	20
	Subtotal - SKIN/SOFT TIS	4.2	0	18	8.5	0	20	0.1	0	1	0.1	0	1	2.0	0	22
HEAD/NECK	RESECT LESION-LIPS	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.1	0	1
	RESECT LESION-TONGUE	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	RESECT LESION-FLOOR MOUTH/BUCCAL MUC	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	PAROTIDECTOMY	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	RESECT OTHER SALIVARY GLND	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	RADICAL NECK DISSECT	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	RESECT MANDIBLE/MAXILLA	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	TRACHEOSTOMY	0.4	0	3	3.3	0	14	0.0	0	0	0.1	0	1	0.2	0	2
	OTHER MAJOR HEAD/NECK	0.2	0	2	1.5	0	5	0.1	0	1	0.1	0	1	0.0	0	0
	Subtotal - HEAD/NECK	0.6	0	4	5.0	0	16	0.1	0	1	0.2	0	2	0.3	0	2
BREAST	BREAST BIOPSY	0.6	0	11	3.4	0	24	0.0	0	0	0.1	0	1	0.1	0	1
	SENTINEL LYMPH NODE BIOPSY (BREAST)	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	SIMPLE MASTECTOMY	0.0	0	0	0.8	0	3	0.0	0	0	0.1	0	1	0.2	0	1
	MOD RAD MASTECTOMY	0.0	0	0	1.0	0	9	0.0	0	0	0.0	0	0	0.0	0	0
	RADICAL MASTECTOMY	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	EXC BX/QUADRANT EXC W/WO AX SAMPLING	0.1	0	1	2.5	0	15	0.0	0	0	0.1	0	1	0.1	0	1
	BREAST RECONSTRUCTION	0.0	0	0	1.3	0	10	0.0	0	0	0.1	0	1	0.2	0	2
	OTHER MAJOR BREAST	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.1	0	1
	Subtotal - BREAST	0.6	0	12	9.2	0	32	0.0	0	0	0.2	0	1	0.5	0	2

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Area	RRC Procedure															
ALIM TR-ESOPHAGUS	ESOPHAGECTOMY	0.0	0	0	0.3	0	2	0.0	0	0	0.0	0	0	0.0	0	0
	ESOPHAGO-GASTRECTOMY	0.0	0	0	0.4	0	4	0.0	0	0	0.1	0	1	0.0	0	0
	ANTIREFLUX PROC-OPEN	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	ANTIREFLUX PROC-LAPAROSCOPIC	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	ESOPHAGEAL BYPASS PROCEDURE	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	REPAIR OF PERF-ESOPH DISEASE	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER OPS FOR ESOPHAGEAL STENOSIS	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	ESOPHAGEAL DIVERTICULECTOMY	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR ESOPHAGUS	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - ALIM TR-ESOPHAGUS		0.1	0	1	0.8	0	4	0.0	0	0	0.1	0	1	0.0	0
ALIM TR-STOMACH	GASTROSTOMY (ALL TYPES)-OPEN	0.0	0	0	0.7	0	2	0.0	0	0	0.0	0	0	0.4	0	2
	GASTROSTOMY (ALL TYPES)-LAPAROSCOPIC	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	GASTRIC RESECT, PARTIAL-OPEN	0.0	0	0	0.5	0	3	0.0	0	0	0.0	0	0	0.1	0	1
	GASTRIC RESECT, PARTIAL-LAPAROSCOPIC	0.0	0	0	0.4	0	2	0.0	0	0	0.2	0	2	0.1	0	1
	GASTRIC RESECT, TOTAL	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	VAGOTOMY, TRUN/SEL W/DRAINAGE/RES-OPEN	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	1
	VAGOTOMY, TRUN/SEL W/DRAINAGE/RES-LAPAR	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	REPAIR PERF-GASTRIC DIS	0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	1	0.1	0	1
	PROX GAST VAGOTOMY, HIGHLY SELECT-OPEN	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	PROX GAST VAGOTOMY, HIGHLY SELECT-LAPAR	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	GASTRIC REDUC FOR MORBID OBESITY (ALL)	0.1	0	1	0.7	0	9	0.0	0	0	0.1	0	1	0.1	0	1
	GASTRIC REDUC FOR MORBID OBESITY-LAP	0.0	0	0	0.7	0	13	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR STOMACH [no open/close dist]	0.0	0	0	0.2	0	2	0.0	0	0	0.0	0	0	0.1	0	1
	Subtotal - ALIM TR-STOMACH		0.1	0	1	3.3	0	25	0.0	0	0	0.3	0	3	0.7	0

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Area	RRC Procedure															
ALIM TR-SMALL INT	ENTEROLYSIS - OPEN	0.0	0	0	0.5	0	4	0.0	0	0	0.0	0	0	1.1	0	5
	ENTEROLYSIS-LAPAROSCOPIC	0.0	0	0	0.3	0	5	0.0	0	0	0.0	0	0	0.0	0	0
	ENTERECTOMY - OPEN	0.3	0	4	1.4	0	7	0.0	0	0	0.1	0	1	1.1	0	6
	ENTERECTOMY-LAPAROSCOPIC	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.1	0	2
	REPAIR PERF-DUODENAL DIS	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	REPAIR PERF-SMALL BOWEL DIS	0.2	0	3	0.2	0	1	0.0	0	0	0.0	0	0	0.1	0	1
	ILEOSTOMY (NOT ASSOC W/COLECTOMY)-OPEN	0.0	0	0	0.3	0	2	0.0	0	0	0.0	0	0	0.2	0	1
	ILEOSTOMY (NOT ASSOC W/COLECTOMY)-LAP	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	DIVERTICULECTOMY	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	1
	OTHER MAJOR SMALL INT	0.0	0	0	0.2	0	1	0.0	0	0	0.0	0	0	0.7	0	6
	Subtotal - ALIM TR-SMALL INT	0.4	0	4	3.1	0	14	0.0	0	0	0.1	0	1	3.3	0	11
ALIM TR-LARGE INT	APPENDECTOMY-OPEN	0.2	0	2	2.3	0	19	0.0	0	0	0.1	0	1	0.6	0	3
	APPENDECTOMY-LAPAROSCOPIC	0.2	0	2	7.5	0	20	0.0	0	0	0.5	0	3	0.1	0	1
	COLOSTOMY (ALL TYPES)	0.1	0	1	1.0	0	7	0.0	0	0	0.0	0	0	0.1	0	1
	COLOSTOMY CLOSURE	0.0	0	0	0.6	0	5	0.0	0	0	0.0	0	0	0.0	0	0
	COLECTOMY/PROCTECTOMY-OPEN	0.1	0	1	3.5	0	19	0.0	0	0	0.3	0	2	0.4	0	4
	COLECTOMY/PROCTECTOMY-LAPAROSCOPIC	0.3	0	5	1.8	0	12	0.0	0	0	0.6	0	8	0.2	0	2
	COLECTOMY W/ ILEOANAL PULL-THRU	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	COLECTOMY W/ CONTINENT RECONSTRUCT	0.0	0	0	0.2	0	1	0.0	0	0	0.0	0	0	0.1	0	1
	ABDOMINO-PERINEAL RESECTION	0.0	0	0	0.3	0	2	0.0	0	0	0.2	0	1	0.0	0	0
	TRANSANAL RECTAL TUMOR EXCISION	0.1	0	1	0.2	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	REPAIR PERF-COLON DIS	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR LARGE INT	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - ALIM TR-LARGE INT	0.9	0	7	17.6	1	47	0.0	0	0	1.6	0	11	1.3	0	6

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Area	RRC Procedure															
ALIM TR-ANO-RECTAL	HEMORRHOIDECTOMY (ALL)	0.1	0	1	0.9	0	3	0.0	0	0	0.1	0	1	0.1	0	1
	SPHINCTEROTOMY/SPHINCTEROPLASTY	0.0	0	0	0.2	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	DRAINAGE PROC FOR ANORECTAL ABSCESS	0.0	0	0	0.9	0	4	0.0	0	0	0.1	0	1	0.1	0	1
	REPAIR ANORECTAL FISTULA	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.1	0	1
	OTHER OPERATIONS FOR ANAL INCONTINENCE	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	REPAIR RECTAL PROLAPSE	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR ANO-RECTAL	0.0	0	0	1.4	0	7	0.0	0	0	0.0	0	0	0.1	0	1
	Subtotal - ALIM TR-ANO-RECTAL	0.1	0	1	3.6	0	14	0.0	0	0	0.1	0	1	0.4	0	2
ABDOMEN-GENERAL	EXP LAP EXCLUSIVE OF TRAUMA-OPEN	1.1	0	5	3.4	0	24	0.0	0	0	0.0	0	0	1.2	0	6
	EXP LAP EXCLUSIVE OF TRAUMA-LAPAR	0.1	0	1	0.9	0	3	0.0	0	0	0.1	0	2	0.4	0	3
	DRAINAGE INTRA-ABDOMINAL ABSCESS	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	1
	MAJ RETROPERIT/PELVIC NODE DISSEC-OPEN	0.0	0	0	0.2	0	4	0.0	0	0	0.0	0	0	0.2	0	2
	OTHER MAJOR AB-GENERAL-LAP COMPLEX	0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	1	0.0	0	0
	OTHER MAJOR AB-GENERAL	0.3	0	3	0.8	0	5	0.0	0	0	1.0	0	19	0.3	0	1
	Subtotal - ABDOMEN-GENERAL	1.5	0	5	5.3	0	27	0.0	0	0	1.2	0	21	2.1	0	11
ABDOMEN-LIVER	LOBECTOMY OR SEGMENTECTOMY	0.2	0	3	0.3	0	2	0.0	0	0	0.0	0	0	0.2	0	2
	WEDGE RESECTION/OPEN BIOPSY	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	1
	DRAINAGE LIVER ABSCESS	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR LIVER	0.1	0	1	0.3	0	3	0.0	0	0	0.0	0	0	0.1	0	1
	Subtotal - ABDOMEN-LIVER	0.2	0	3	0.6	0	3	0.0	0	0	0.0	0	0	0.3	0	3
ABDOMEN-BILIARY	CHOLECYSTOSTOMY	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	CHOLECYSTECTOMY W/WO OPER GRAMS-OPEN	0.1	0	2	0.9	0	4	0.0	0	0	0.0	0	0	0.6	0	5
	CHOLECYSTECTOMY W/WO OPER GRAMS-LAPAR	1.2	0	10	22.7	0	70	0.1	0	1	1.2	0	9	0.4	0	3
	COMMON BILE DUCT EXPLOR-OPEN	0.1	0	1	0.2	0	3	0.0	0	0	0.0	0	0	0.1	0	1
	COMMON BILE DUCT EXPLOR-LAPAR	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	CHOLEDOCHOENTERIC ANASTOMOSIS	0.0	0	0	0.2	0	1	0.1	0	1	0.1	0	1	0.1	0	1
	SPHINCTEROPLASTY (ODDI)	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR BILIARY	0.0	0	0	0.2	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - ABDOMEN-BILIARY	1.4	0	10	24.2	0	70	0.1	0	2	1.2	0	9	1.2	0	5

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		Surgeon Chief			Surgeon Junior			Teach Assist			First Assist			Secondary Procedures		
		Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX
Area	RRC Procedure															
ABDOMEN-PANCREAS	DRAINAGE PANCREATIC ABSCESS	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	RESECTION FOR PANCREATIC NECROSIS	0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	1	0.0	0	0
	PANC RESECTION, DISTAL	0.0	0	0	0.1	0	2	0.0	0	0	0.1	0	1	0.0	0	0
	PANC RESECTION, WHIPPLE	0.0	0	0	0.2	0	2	0.0	0	0	0.1	0	1	0.0	0	0
	PANC RESECTION, TOTAL	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	DRAINAGE PSEUDOCYST (ALL TYPES)	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	PANCREATICOJEJUNOSTOMY	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR PANCREAS	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - ABDOMEN-PANCREAS	0.0	0	0	0.5	0	2	0.0	0	0	0.2	0	1	0.0	0	0
ABDOMEN-SPLEEN	SPLENECTOMY FOR DISEASE-OPEN	0.0	0	0	0.1	0	2	0.0	0	0	0.0	0	0	0.1	0	1
	SPLENECTOMY FOR DISEASE-LAPAR	0.0	0	0	0.2	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - ABDOMEN-SPLEEN	0.0	0	0	0.3	0	2	0.0	0	0	0.0	0	0	0.1	0	1
ABDOMEN-HERNIA	INGUINAL-FEMORAL (ALL)-OPEN	0.5	0	5	6.1	0	17	0.0	0	0	0.2	0	2	0.3	0	2
	INGUINAL-FEMORAL (ALL)-LAPAROS	0.9	0	10	5.7	0	47	0.0	0	0	0.4	0	4	0.1	0	1
	VENTRAL	0.9	0	12	7.2	0	23	0.0	0	0	0.2	0	1	1.2	0	8
	OTHER MAJOR HERNIAS	0.0	0	0	0.2	0	1	0.0	0	0	0.1	0	1	0.1	0	1
	Subtotal - ABDOMEN-HERNIA	2.4	0	24	19.1	0	63	0.0	0	0	0.8	0	5	1.6	0	10
ENDOCRINE	THYROIDECTOMY, PART OR TOT	0.3	0	4	0.8	0	5	0.0	0	0	0.4	0	6	0.1	0	1
	PARATHYROIDECTOMY	0.0	0	0	0.4	0	2	0.0	0	0	0.3	0	6	0.1	0	2
	ADRENALECTOMY	0.0	0	0	0.1	0	1	0.0	0	0	0.1	0	1	0.1	0	1
	PANCREATIC ENDOCRINE PROC	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR ENDOCRINE	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - ENDOCRINE	0.3	0	4	1.3	0	7	0.0	0	0	0.8	0	13	0.2	0	2

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		Surgeon Chief			Surgeon Junior			Teach Assist			First Assist			Secondary Procedures		
		Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX
Area	RRC Procedure															
HAND	SOFT TISSUE REPAIR/GRAFT	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	TENDON REPAIR/TRANSFER	0.1	0	1	0.3	0	6	0.0	0	0	0.1	0	1	0.0	0	0
	NERVE REPAIR	0.0	0	0	0.2	0	2	0.0	0	0	0.0	0	0	0.0	0	0
	VASCULAR REPAIR	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	REPLANTATION	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR HAND	0.0	0	0	0.5	0	8	0.0	0	0	0.1	0	1	0.1	0	1
	Subtotal - HAND	0.1	0	1	0.9	0	14	0.0	0	0	0.1	0	2	0.1	0	1
	THORACIC	EXPLOR THORACOTOMY-OPEN	0.1	0	1	0.7	0	4	0.0	0	0	0.1	0	1	0.3	0
EXPLOR THORACOTOMY W/WO BX-THORACOS		0.0	0	0	1.2	0	13	0.0	0	0	0.1	0	1	0.1	0	1
PLEURODESIS-THORACOSCOPIC		0.0	0	0	0.5	0	4	0.0	0	0	0.0	0	0	0.0	0	0
REPAIR DIAPH HERNIA		0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
EXCISION MEDIASTINAL TUMOR		0.0	0	0	0.6	0	12	0.0	0	0	0.1	0	1	0.2	0	3
PNEUMONECTOMY		0.0	0	0	0.2	0	1	0.0	0	0	0.0	0	0	0.0	0	0
LOBECTOMY/SEGMENTAL RESECT LUNG-OPEN		0.1	0	1	1.1	0	5	0.0	0	0	0.1	0	1	0.1	0	1
LOBECTOMY/SEGMENTAL RESECT LUNG-THORACOS		0.0	0	0	0.8	0	9	0.0	0	0	0.0	0	0	0.0	0	0
WEDGE RESECTION LUNG-OPEN		0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
WEDGE RESECTION LUNG-THORACOSCOPIC		0.0	0	0	1.2	0	6	0.0	0	0	0.0	0	0	0.1	0	2
THORACIC OUTLET DECOMPRESS PROC		1.7	0	10	0.8	0	9	0.0	0	0	0.0	0	0	0.7	0	6
OPEN DRAINAGE OF EMPYEMA		0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
PERICARDIECTOMY		0.0	0	0	0.2	0	1	0.0	0	0	0.0	0	0	0.1	0	1
PERICARD WINDOW FOR DRAINAGE-THORACOSCOP		0.0	0	0	0.3	0	2	0.0	0	0	0.0	0	0	0.0	0	0
PACEMAKER INSERTION		0.0	0	0	0.2	0	3	0.0	0	0	0.0	0	0	0.1	0	1
CARDIAC PROCEDURES		0.1	0	1	8.4	0	41	0.0	0	0	0.5	0	5	2.8	0	12
SYMPATHECTOMY, THORACOLUMBAR-THORACOSCOP		0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
ESOPHAGOMYOTOMY (HELLER)-THORACOSCOPIC		0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
OTHER MAJOR THORACIC	0.2	0	2	2.1	0	9	0.0	0	0	0.2	0	3	0.9	0	14	
Subtotal - THORACIC	2.2	0	10	18.3	0	45	0.0	0	0	0.9	0	5	5.3	0	18	

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		Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX
Area	RRC Procedure															
PEDIATRIC	HERNIORRHAPHY, INGUINAL/UMBILICAL	0.1	0	1	1.2	0	6	0.0	0	0	0.1	0	1	0.2	0	1
	REP BRANCHIAL CLEFT ANOM/THYRO DUCT CYST	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	REPAIR DEFORMITY CHEST WALL	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	REPAIR DIAPHRAGMATIC HERNIA	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	ANTIREFLUX PROCEDURE-OPEN (PEDS)	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	ANTIREFLUX PROCEDURE-LAPAROSCOPIC (PEDS)	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	REP ESOPH ATRESIA/TRACHEO-ESOPH FIST	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	REP INTESTINAL ATRESIA/STENOSIS	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	REPAIR PYLORIC STENOSIS	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	OPERATION FOR MALROTATION/INTUSSUSCEPT	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	PROC FOR MECONIUM ILEUS/NEC ENTEROCOLIT	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	DEFIN OP FOR HIRSCHSPRUNGS/IMPERF ANUS	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	EXC WILMs TUMOR/NEUROBLASTOMA	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	REP OMPHALOCELE/GASTROSCHISIS	0.0	0	0	0.2	0	3	0.0	0	0	0.1	0	1	0.0	0	0
	REPAIR OF EXSTROPHY	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	REPAIR EPI- AND HYPO-SPDIAS	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	ORCHIOPEXY	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR PEDIATRIC	0.0	0	0	0.0	0	0	0.0	0	0	0.2	0	2	0.0	0	0
	Subtotal - PEDIATRIC	0.1	0	1	1.6	0	7	0.0	0	0	0.3	0	2	0.2	0	1

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		Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX
Area	RRC Procedure															
GENITO-URINARY	HYDROCELECTOMY	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	CYSTOSTOMY	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	CYSTECTOMY	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	NEPHRECTOMY (W/ DONOR NEPH SEE TRANSPLT)	0.0	0	0	0.8	0	7	0.0	0	0	0.0	0	0	0.1	0	1
	ILEAL URINARY CONDUIT	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR GENITO-URINARY	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.1	0	2
	OTHER MAJOR GENITO-URINARY - LAP BASIC	0.0	0	0	0.2	0	2	0.0	0	0	0.0	0	0	0.1	0	1
	OTHER MAJOR GENITO-URINARY - LAP COMPLEX	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - GENITO-URINARY	0.0	0	0	1.3	0	8	0.0	0	0	0.0	0	0	0.3	0	2
GYNECOLOGY	HYSTERECTOMY (ALL)	0.0	0	0	0.3	0	3	0.0	0	0	0.0	0	0	0.1	0	1
	SALPINGO-OOPHORECTOMY	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.1	0	1
	OTHER MAJOR GYNECOLOGY	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.1	0	1
	OTHER MAJOR GYNECOLOGY - LAPAROSCOPIC	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - GYNECOLOGY	0.0	0	0	0.4	0	4	0.0	0	0	0.0	0	0	0.2	0	1
PLASTIC	REPAIR CLEFT LIP/CLEFT PALATE	0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	1	0.0	0	0
	MAJOR RECONSTRUCTIVE PROC	0.1	0	1	0.9	0	12	0.0	0	0	0.0	0	0	0.1	0	2
	SKIN-GRAFTING, NONBURN (ALL)	0.8	0	8	0.4	0	1	0.0	0	0	0.0	0	0	0.3	0	2
	COMPOSITE TISSUE TRANSFER	0.2	0	2	0.6	0	2	0.0	0	0	0.0	0	0	0.7	0	6
	BURN DEBRIDEMENT AND/OR GRAFTING	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	REDUCTION AND STABILIZATION OF MAXILLOFACIAL	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR PLASTIC	0.0	0	0	0.8	0	5	0.0	0	0	0.1	0	1	0.6	0	7
	Subtotal - PLASTIC	1.1	0	8	2.7	0	19	0.0	0	0	0.1	0	1	1.7	0	11
NERVOUS	CRANIAL DECOMPRESSION/EXPLORATION	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR NERVOUS SYSTEM	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - NERVOUS SYSTEM	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0

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		Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX
Area	RRC Procedure															
ORTHOPAEDICS	OPEN OPERATIONS ON BONE OR JOINTS	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	ARTHROSCOPY	0.0	0	0	0.1	0	2	0.0	0	0	0.0	0	0	0.0	0	0
	OPEN REDUCTION OF OPEN/CLOSED FRACTURE	0.1	0	1	0.4	0	6	0.0	0	0	0.3	0	3	0.1	0	2
	CLOSED REDUCTION OF FRACTURE	0.0	0	0	0.2	0	3	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR ORTHOPAEDICS	0.4	0	7	0.5	0	5	0.0	0	0	0.1	0	1	0.5	0	3
	Subtotal - ORTHOPAEDICS	0.4	0	7	1.3	0	11	0.0	0	0	0.4	0	3	0.6	0	4
ORGAN TRANSPLANT	LIVER TRANSPLANT	0.0	0	0	0.4	0	6	0.0	0	0	0.3	0	4	0.0	0	0
	RENAL TRANSPLANT	0.0	0	0	3.1	0	19	0.0	0	0	0.4	0	3	0.0	0	0
	PANCREAS TRANSPLANT	0.0	0	0	0.2	0	2	0.0	0	0	0.0	0	0	0.1	0	1
	DONOR NEPHRECTOMY	0.0	0	0	0.5	0	5	0.0	0	0	0.0	0	0	1.1	0	5
	DONOR HEPATECTOMY	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	EN BLOC ABD ORGAN RETRIEVAL	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	1
	OTHER MAJOR ORGAN TRANSPLANT	0.0	0	0	0.1	0	1	0.0	0	0	0.1	0	1	0.1	0	1
	Subtotal - ORGAN TRANSPLANT	0.0	0	0	4.4	0	26	0.0	0	0	0.7	0	7	1.2	0	5

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		Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX
Area	RRC Procedure															
TRAUMA	DRAINAGE SUB/EXTRADURAL HEMATOMA	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	ESOPH TRAUMA-CLOSURE/RESECT/EXCLUSION	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	GASTRIC TRAUMA-CLOSURE/RESECT/EXCLUSION	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.2	0	3
	DUODENAL TRAUMA-CLOSURE/RESECT/EXCLUSION	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.1	0	1
	SM BOWEL TRAUMA-CLOSURE/RESECT/EXCLUSION	0.0	0	0	0.2	0	1	0.0	0	0	0.0	0	0	0.1	0	1
	COLON TRAUMA-CLOSURE/RESECT/EXCLUSION	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	NECK EXPLOR FOR TRAUMA	0.0	0	0	0.2	0	2	0.0	0	0	0.0	0	0	0.2	0	1
	EXPLOR THORACOTOMY - OPEN	0.1	0	2	0.2	0	2	0.0	0	0	0.0	0	0	0.0	0	0
	EXPLOR THORACOTOMY - THORACOSCOPIC	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	EXPLOR LAPAROTOMY - OPEN	0.2	0	1	1.2	0	7	0.0	0	0	0.0	0	0	0.6	0	6
	SPLENECTOMY/SPLENORRHAPHY-OPEN	0.1	0	1	0.1	0	1	0.0	0	0	0.0	0	0	0.2	0	3
	REPAIR/DRAINAGE HEPATIC LACS-OPEN	0.0	0	0	0.1	0	2	0.0	0	0	0.0	0	0	0.0	0	0
	HEPATIC RESECTION FOR INJURY	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	DRAINAGE PANCREATIC INJURY	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	RESECTION OF PANCREATIC INJURY	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.1	0	1
	CLOSED REDUCT OF FRACTURE	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	DEBRIDE/SUTURE MAJOR WOUNDS	0.3	0	2	0.8	0	6	0.0	0	0	0.1	0	1	0.2	0	2
	REPAIR BLADDER INJURY	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	REPAIR URETERAL INJURY	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	REPAIR/RESECT FOR KIDNEY TRAUMA	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	2
	FASCIOTOMY FOR INJURY	0.3	0	2	0.4	0	2	0.1	0	1	0.0	0	0	1.4	0	10
	MANAGEMENT CARDIAC INJURY	0.0	0	0	0.2	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR TRAUMA	0.9	0	11	0.5	0	3	0.2	0	4	0.0	0	0	0.4	0	3
	Subtotal - TRAUMA	1.8	0	11	4.1	0	16	0.3	0	5	0.1	0	1	3.4	0	18

Statistics for each role (surgeon chief, surgeon junior, teaching assistant, and first assistant) include only procedures for primary credit. Secondary procedures are shown separately and include all roles.

# VASCULAR SURGERY - INTEGRATED : NATIONAL RESIDENT REPORT (Main Table)

Reporting Period: Total Experience of Residents Completing Programs in 2013-2014

Residency Review Committee for Surgery

Report Date: October 16, 2014

[PAGE 17 ]

Number of Programs in the Nation: 16    Number of Residents in the Nation: 19

		Surgeon Chief			Surgeon Junior			Teach Assist			First Assist			Secondary Procedures		
		Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX	Natl Res AVE	Natl Res MIN	Natl Res MAX
Area	RRC Procedure															
ENDOSCOPY (NOT FOR	LARYNGOSCOPY	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	BRONCHOSCOPY	0.0	0	0	1.3	0	7	0.0	0	0	0.1	0	1	1.4	0	17
	SCLEROTHERAPY/BANDING ESOPH	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	ESOPHAGO-GASTRO-DUODENOSCOPY	0.0	0	0	0.6	0	4	0.0	0	0	0.1	0	1	0.4	0	5
	PERCUTAN ENDO GASTROSTOMY (PEG)	0.0	0	0	0.7	0	4	0.0	0	0	0.0	0	0	0.9	0	8
	ERCP W/WO PAPILOTOMY	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	SIGMOIDOSCOPY, RIGID/FLEXIBLE	0.1	0	1	0.3	0	3	0.0	0	0	0.0	0	0	0.2	0	1
	FLEXIBLE COLONOSCOPY W/WO	0.0	0	0	1.3	0	20	0.0	0	0	0.0	0	0	0.0	0	0
	CHOLEDOCHOSCOPY	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	CYSTO/URETHROSCOPY	0.1	0	1	0.5	0	5	0.0	0	0	0.0	0	0	0.1	0	1
	OTHER ENDOSCOPY	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.3	0	5
Subtotal - ENDOSCOPY (NOT MAJOR CRED)		0.1	0	1	4.7	0	30	0.0	0	0	0.2	0	1	3.3	0	18
MISCELLANEOUS (NOT FOR	REMOVE SKIN MOLES, SMALL TUMORS,	0.3	0	6	3.7	0	13	0.0	0	0	0.1	0	1	0.7	0	11
	REMOVAL SUBCUT SMALL TUMORS, CYSTS,	0.3	0	5	1.1	0	5	0.0	0	0	0.0	0	0	0.3	0	4
	REPAIR MINOR WOUNDS AND GRAFTS	0.0	0	0	0.5	0	5	0.0	0	0	0.0	0	0	0.7	0	11
	BANDING/INCISION THROMBOSED	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	ENDORECTAL ULTRASOUND	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER PROCEDURES	8.3	0	31	39.4	1	87	0.3	0	4	1.7	0	16	15.8	0	84
	Subtotal - MISC (NOT MAJOR CRED)		8.9	0	33	44.7	1	91	0.3	0	4	1.8	0	16	17.5	0
OPHTHALMOLOGY (NOT FOR	OPHTHALMOLOGY	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - OPHTHALMOLOGY (NOT FOR MAJ		0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0
UROLOGY (NOT FOR MAJOR	UROLOGY	0.0	0	0	1.5	0	25	0.0	0	0	0.1	0	1	0.0	0	0
	Subtotal - UROLOGY (NOT FOR MAJ CRED)		0.0	0	0	1.5	0	25	0.0	0	0	0.1	0	1	0.0	0
RADIOLOGY (NOT FOR MAJOR	RADIOLOGY	4.7	0	36	14.6	0	77	0.2	0	2	0.6	0	7	161.5	0	1,741
	Subtotal - RADIOLOGY (NOT FOR MAJ CRED)		4.7	0	36	14.6	0	77	0.2	0	2	0.6	0	7	161.5	0
TOTAL FOR CREDIT	Major Operations	448.2	3	919	765.5	45	1,402	12.5	0	53	34.1	0	125	730.8	2	1,887

Statistics for each role (surgeon chief, surgeon junior, teaching assistant, and first assistant) include only procedures for primary credit. Secondary procedures are shown separately and include all roles.

# VASCULAR SURGERY - INTEGRATED : NATIONAL RESIDENT REPORT (Defined Categories Table)

Reporting Period: Total Experience of Residents Completing Programs in 2013-2014

Residency Review Committee for Surgery

Report Date: October 16, 2014

[PAGE 18 ]      Number of Programs in the Nation: 16      Number of Residents in the Nation: 19				
	Total Def Cat Procedures			
	Natl Res AVE	Natl Res MIN	Natl Res MAX	Min Req
Defined Category				
Abdominal (VS)	57.8	31	120	30
Cerebrovascular	60.4	30	102	25
Peripheral	152.4	47	273	45
Complex	100.5	17	277	10
Endovascular Diagnostic	450.9	109	967	100
Endovascular Therapeutic	357.9	83	849	80
Endovascular Aneurysm Repair	89.1	36	178	20