



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.

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

Reporting Period: Total Experience of Residents Completing Programs in 2015-2016

Residency Review Committee for Surgery

Report Date: September 19, 2016

[PAGE 1] Number of Programs in the Nation: 27 Number of Residents in the Nation: 32

		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,	1.5	0	7	1.0	0	4	0.0	0	0	0.3	0	2	0.1	0	1	
	OPEN REPAIR INFRARENAL A-I ANEURYSM, ELECTIVE	7.0	0	26	3.9	0	16	0.0	0	1	1.0	0	5	0.7	0	3	
	ENDOVASCULAR REPAIR ABD AORTIC/ILIAC	30.3	0	79	18.9	1	70	0.3	0	2	1.4	0	8	14.6	0	92	
	ENDOVASCULAR REPAIR OF ILIAC ARTERY	1.0	0	5	0.7	0	3	0.0	0	0	0.2	0	2	0.5	0	2	
	REPAIR SUPRARENAL AORTIC ANEURYSM	1.3	0	6	1.1	0	9	0.0	0	0	0.2	0	2	0.2	0	3	
	REPAIR THORACIC AORTIC ANEURYSM	0.3	0	2	0.1	0	2	0.0	0	0	0.1	0	1	0.0	0	0	
	ENDOVASCULAR REPAIR THORACIC AORTIC	9.0	0	23	5.0	0	42	0.0	0	1	0.2	0	2	2.8	0	14	
	REPAIR THORACOABDOMINAL AORTIC ANEURYSM	1.9	0	11	1.5	0	16	0.0	0	0	0.5	0	4	0.1	0	1	
	REPAIR FEMORAL ANEURYSM	2.4	0	8	1.9	0	8	0.0	0	0	0.2	0	2	0.7	0	3	
	REPAIR POPLITEAL ANEURYSM	1.4	0	6	1.0	0	5	0.0	0	1	0.0	0	1	0.1	0	1	
	REPAIR OTHER ANEURYSM - DEF CAT CREDIT	0.7	0	3	0.4	0	2	0.0	0	0	0.1	0	1	0.1	0	1	
	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		56.7	0	112	35.7	1	104	0.4	0	2	4.3	0	13	19.9	1	96
	CEREBROVASCULAR	CAROTID ENDARTERECTOMY	34.4	0	108	22.5	1	68	0.3	0	4	3.1	0	22	0.9	0	7
REOPERATIVE CAROTID SURGERY		0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.9	0	6	
TRANSCATHETER PLACEMENT CAROTID ARTERY		4.7	0	19	2.6	0	10	0.0	0	1	0.3	0	3	0.0	0	1	
EXCISE CAROTID BODY TUMOR		0.5	0	3	0.2	0	1	0.0	0	0	0.0	0	1	0.0	0	0	
VERTEBRAL BYPASS OR REIMPLANTATION		0.1	0	2	0.1	0	1	0.0	0	0	0.0	0	1	0.1	0	1	
DIRECT REPAIR AORTIC ARCH BRANCHES		0.5	0	2	0.1	0	1	0.0	0	0	0.0	0	0	0.1	0	1	
TRANSLUMINAL BALLOON		0.8	0	3	0.9	0	9	0.0	0	0	0.0	0	1	0.8	0	10	
TRANSLUMINAL ATHERECTOMY - BRACHIOCEPHALIC		0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
TRANSCATHETER PLACE OF INTRAVASC STENT,		1.4	0	7	0.6	0	4	0.0	0	0	0.0	0	0	0.3	0	2	
CERVICAL BYPASS AORTIC ARCH BRANCHES		3.6	0	17	2.8	0	16	0.0	0	0	0.4	0	4	1.3	0	6	
EMBOLECTOMY/THROMBECTOMY BY NECK OR		0.1	0	2	0.2	0	2	0.0	0	0	0.0	0	1	0.0	0	1	
OTHER MAJOR CEREBROVASCULAR - DEF CAT		0.5	0	3	0.3	0	2	0.0	0	0	0.0	0	1	0.1	0	1	
OTHER CEREBROVASCULAR		0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
Subtotal - CEREBROVASCULAR		46.7	0	118	30.2	2	86	0.4	0	4	3.9	0	22	4.5	0	16	

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 2015-2016

Residency Review Committee for Surgery

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[PAGE 2]

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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	2.9	0	17	1.7	0	13	0.0	0	1	0.3	0	2	1.2	0	13
	AORTO-ILIO/FEMORAL BYPASS, PROSTHETIC	6.3	0	21	4.1	0	27	0.1	0	2	0.4	0	3	1.0	0	4
	AORTO-ILIO/FEMORAL BYPASS, VEIN	0.3	0	3	0.4	0	4	0.0	0	0	0.1	0	1	0.1	0	2
	TRANSLUMINAL BALLOON ANGIOPLASTY AORTA OR	11.4	0	32	9.7	0	38	0.1	0	3	0.3	0	2	25.2	2	78
	TRANSLUMINAL ATHERECTOMY AORTA OR ILIAC	0.0	0	1	0.1	0	1	0.0	0	0	0.0	0	0	0.3	0	2
	TRANSCATHETER PLACEMENT INTRAVASC STENT	4.7	0	19	3.2	0	16	0.0	0	0	0.4	0	6	4.4	0	24
	ILIO-ILIAC/FEMORAL ENDARTERECTOMY	2.5	0	8	1.0	0	7	0.0	0	0	0.1	0	1	1.0	0	5
	EXCISE INFECTED GRAFT, ABDOMEN OR CHEST	0.8	0	4	0.5	0	3	0.0	0	0	0.1	0	1	0.4	0	7
	REPAIR GRAFT-ENTERIC/AORTO-ENTERIC FISTULA	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	1
	FEMORAL, PROFUNDA ENDARTERECTOMY	14.0	0	37	10.4	0	32	0.3	0	2	0.6	0	5	19.3	3	54
	FEMORAL-POPLITEAL BYPASS, VEIN	6.9	0	22	5.3	0	14	0.1	0	1	0.9	0	5	1.3	0	4
	FEMORAL-POPLITEAL BYPASS, PROSTHETIC	5.7	0	19	3.6	0	12	0.0	0	0	0.4	0	3	1.3	0	7
	TRANSLUMINAL BALLOON ANGIOPLASTY	20.7	0	51	20.7	2	55	0.2	0	2	0.7	0	6	25.8	4	76
	TRANSLUMINAL ATHERECTOMY FEMORAL-POPLITEAL	2.2	0	9	2.3	0	11	0.0	0	0	0.0	0	0	1.6	0	8
	ENDARTERECTOMY, SUPERFICIAL FEMORAL,	1.0	0	5	1.0	0	6	0.0	0	1	0.1	0	2	3.3	0	17
	INFRAPOPLITEAL BYPASS, VEIN	9.2	0	26	9.0	0	41	0.2	0	1	0.8	0	5	1.4	0	7
	INFRAPOPLITEAL BYPASS, PROSTHETIC	3.1	0	11	1.7	0	8	0.0	0	1	0.2	0	1	0.4	0	4
	TRANSLUMINAL BALLON ANGIOPLASTY,	10.4	0	47	9.2	0	38	0.1	0	1	0.5	0	4	7.8	0	32
	TRANSLUMINAL ATHERECTOMY, TIBIOPERONEAL	0.8	0	6	0.9	0	5	0.0	0	0	0.0	0	0	0.9	0	4
	TRANSCATHETER PLACE OF INTRAVASCULAR STENT	2.1	0	12	11.6	0	33	0.0	0	1	0.7	0	5	10.5	0	52
	EXCISE INFECTED GRAFT, PERIPHERAL	1.7	0	10	1.8	0	8	0.0	0	0	0.1	0	2	1.5	0	7
	REVISE ARTERIAL BYPASS	3.5	0	24	2.2	0	10	0.1	0	2	0.3	0	3	2.0	0	9
	ARTERIAL EMBOLECTOMY/THROMBECTOMY BY LEG	6.7	0	22	4.5	0	15	0.1	0	1	0.5	0	2	11.2	0	39
	GRAFT THROMBECTOMY	0.9	0	8	0.9	0	5	0.0	0	0	0.0	0	1	0.6	0	4
	ADJUNCTIVE VEIN CUFF OR AVF	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	1.4	0	16
	HARVEST ARM VEIN	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	1.4	0	7
	COMPOSITE LEG BYPASS GRAFT	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	1.0	0	5
	RE-DO LOWER EXTREMITY BYPASS	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	4.1	0	31
	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	118.0	0	274	105.8	16	244	1.3	0	8	7.5	0	26	130.5	24	305

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ABDOMINAL	CELIAC/SMA ENDARTERECTOMY, BYPASS	2.2	0	8	1.2	0	5	0.0	0	0	0.3	0	3	0.4	0	3
	RENAL ENDARTERECTOMY, BYPASS	0.3	0	3	0.1	0	1	0.0	0	1	0.1	0	1	0.2	0	2
	EMBOLECTOMY/THROMBECTOMY, RENAL	1.1	0	4	0.5	0	4	0.0	0	0	0.0	0	1	0.3	0	2
	TRANSLUMINAL BALLOON ANGIOPLASTY,	2.5	0	12	1.8	0	12	0.0	0	0	0.1	0	1	3.1	0	19
	TRANSLUMINAL ATHERECTOMY, RENAL	0.1	0	2	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	1
	TRANSCATHETER PLACE OF STENT, RENAL	2.5	0	8	2.5	0	13	0.0	0	0	0.0	0	1	2.9	0	25
	Subtotal - ABDOMINAL OBSTRUCTIVE	8.6	0	21	6.2	0	22	0.0	0	1	0.5	0	3	6.9	0	29
UPPER EXTREMITY	OPEN BRACHIAL ARTERY EXPOSURE	0.2	0	2	0.4	0	2	0.0	0	0	0.0	0	0	2.1	0	16
	ARM BYPASS,ENDARTERECTOMY,REPAIR	2.3	0	10	1.3	0	4	0.0	0	0	0.1	0	1	0.3	0	4
	TRANSCATH PLACE OF INTRAVASC STENT,	0.7	0	6	1.3	0	5	0.0	0	0	0.0	0	0	0.8	0	4
	THORACIC OUTLET DECOMPRESSION PROC	1.7	0	7	1.5	0	8	0.0	0	0	0.3	0	3	0.1	0	1
	EMBOLECTOMY/THROMBECTOMY, BY ARM	2.0	0	7	1.8	0	7	0.0	0	1	0.1	0	2	1.8	0	7
	Subtotal - UPPER EXTREMITY	6.8	0	16	6.3	0	15	0.0	0	1	0.4	0	3	5.1	0	26
EXTRA-ANATOMIC	AXILLO-FEMORAL BYPASS	3.3	0	13	2.2	0	14	0.0	0	0	0.3	0	3	0.5	0	3
	AXILLO-POPLITEAL-TIBIAL BYPASS	0.1	0	1	0.1	0	1	0.0	0	0	0.0	0	1	0.0	0	0
	FEMORAL-FEMORAL BYPASS	3.8	0	14	2.8	0	14	0.0	0	0	0.2	0	2	2.7	0	12
	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	7.2	0	20	5.0	0	28	0.0	0	0	0.5	0	3	3.2	0	14
THROMBOLYSIS/MECH	TRANSLUMINAL MECHANICAL THROMBECTOMY	2.3	0	11	2.4	0	10	0.0	0	0	0.1	0	2	1.2	0	8
	THROMBOLYSIS, TRANSARTERIAL,	3.3	0	18	4.4	0	20	0.0	0	1	0.1	0	2	1.8	0	9
	EXCHANGE OF THROMBOLYSIS CATHETER	1.8	0	10	0.7	0	4	0.0	0	0	0.0	0	1	1.0	0	6
	Subtotal - THROMBOLYSIS/MECH THROMB	7.3	0	32	7.5	0	30	0.0	0	1	0.2	0	3	4.0	0	22

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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	2.0	0	9
	TRANSCATHETER THERAPY, INFUSION NON	0.1	0	3	0.3	0	6	0.0	0	0	0.0	0	0	0.1	0	1
	TRANSCATHETER RETRIEVAL OF INTRAVASCULAR	0.1	0	3	1.4	0	24	0.1	0	2	0.0	0	1	0.7	0	15
	TRANSCATHETER ARTERIAL OCCLUSION OR	4.6	0	39	5.0	0	59	0.0	0	0	0.1	0	2	5.3	0	30
	TRANSCATHETER PLACE OF WIRELESS SENSOR	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	PRESSURE MEASUREMENTS FROM WIRELESS	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - MISC ENDOVASC THERAP	4.8	0	45	6.7	0	59	0.1	0	2	0.2	0	2	8.1	0	35
TRAUMA	EXPOSURE OF THORASIC VESSELS	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	1
	REPAIR THORASIC VESSELS	0.1	0	2	0.2	0	3	0.0	0	1	0.1	0	1	0.2	0	1
	EXPOSURE OF NECK VESSELS	0.0	0	1	0.1	0	1	0.0	0	0	0.0	0	1	0.1	0	1
	REPAIR NECK VESSELS	0.5	0	3	0.1	0	2	0.0	0	0	0.0	0	1	0.1	0	2
	EXPOSURE OF ABDOMINAL VESSELS	0.3	0	5	0.2	0	4	0.0	0	0	0.1	0	2	0.2	0	2
	REPAIR ABDOMINAL VESSELS	2.2	0	15	0.7	0	4	0.0	0	1	0.0	0	0	0.6	0	3
	EXPOSURE OF PERIPHERAL VESSELS	0.5	0	3	0.8	0	6	0.0	0	0	0.1	0	2	2.5	0	41
	REPAIR PERIPHERAL VESSELS	3.3	0	15	1.4	0	7	0.0	0	1	0.1	0	1	2.3	0	23
	FASCIOTOMY	1.1	0	4	1.1	0	6	0.1	0	1	0.0	0	1	3.8	0	11
	Subtotal - TRAUMA (VS)	8.1	0	33	4.6	0	25	0.2	0	1	0.4	0	3	9.7	0	66
Major Vascular	Total - Major VS Procedures	264.1	0	477	207.9	34	448	2.3	0	12	17.8	0	60	191.9	26	469

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Area	RRC Procedure															
VENOUS	PORTAL-SYSTEMIC SHUNT	0.1	0	1	0.0	0	1	0.0	0	0	0.1	0	1	0.0	0	0
	OPERATION FOR VARICOSE VEINS	5.3	0	25	11.3	0	38	0.3	0	2	0.2	0	1	10.4	0	36
	SCLECTOTHERAPY, PERIPH VEIN	1.3	0	24	0.3	0	6	0.0	0	0	0.0	0	0	0.4	0	3
	EMBOLECTOMY/THROMBECTOMY, VENOUS	0.4	0	4	0.2	0	2	0.0	0	0	0.0	0	1	0.5	0	4
	ENDOLUMINAL ABLATION	8.1	0	45	8.0	0	31	0.3	0	5	0.6	0	9	3.9	0	26
	OPERATIONS FOR VENOUS ULCERATION	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	VENOUS RECONSTRUCTION	1.0	0	6	0.4	0	2	0.0	0	0	0.1	0	2	0.5	0	4
	TRANSLUMINAL BALLOON ANGIOPLASTY,	15.8	0	140	12.4	0	49	0.3	0	5	0.4	0	5	9.5	0	55
	TRANSLUMINAL MECHANICAL THROMBECTOMY,	0.9	0	6	1.4	0	5	0.0	0	0	0.0	0	1	0.9	0	5
	THROMBOLYSIS, TRANSVENOUS,	1.0	0	6	1.7	0	8	0.0	0	0	0.1	0	1	0.7	0	4
	EXCHANGE OF THROMBOLYSIS CATH	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	1
	INTERRUPTION OF IVC	10.0	0	41	14.4	0	71	0.5	0	11	0.1	0	1	2.3	0	21
	REPAIR A-V MALFORMATION	0.1	0	1	0.0	0	1	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		43.8	0	251	50.2	7	96	1.3	0	19	1.6	0	15	29.1	1
ENDOASCULAR	ARTERIOGRAPHY	46.8	0	156	56.4	5	127	0.6	0	11	2.6	0	41	281.9	21	805
	VENOGRAPHY	9.7	0	68	15.4	0	163	0.1	0	1	0.1	0	1	27.6	0	157
	ANGIOSCOPY	0.0	0	0	0.1	0	2	0.0	0	0	0.1	0	2	1.0	0	21
	INTRAVASCULAR ULTRASOUND	0.5	0	5	0.8	0	6	0.0	0	1	0.1	0	2	4.3	0	39
	Subtotal - ENDOASCULAR DIAGNOSTIC		57.0	0	224	72.8	15	221	0.7	0	12	2.8	0	41	314.8	21
MISC VASCULAR	EXPLORATION OF ARTERY	1.8	0	7	2.8	0	11	0.0	0	0	0.3	0	4	15.3	0	109
	POSTOPERATIVE EXP. FOR BLEED, THROMB,	1.8	0	12	1.1	0	6	0.1	0	1	0.0	0	1	1.2	0	10
	MAJOR VASCULAR LIGATION	3.3	0	19	5.7	0	19	0.3	0	4	0.2	0	1	1.6	0	8
	INJECT PSEUDOANEURYSM	0.7	0	5	0.8	0	4	0.0	0	0	0.0	0	0	0.0	0	1
	SPINE EXPOSURE	1.8	0	14	0.9	0	5	0.0	0	0	0.1	0	3	0.8	0	10
	SYMPATHECTOMY	0.0	0	1	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	LYMPHATIC PROCEDURE	0.0	0	1	0.2	0	3	0.0	0	0	0.0	0	0	0.0	0	1
	OTHER MISCELLANEOUS VASCULAR	0.5	0	7	0.9	0	9	0.0	0	0	0.1	0	2	0.7	0	5
	Subtotal - MISCELLANEOUS VASCULAR		10.0	0	33	12.4	2	33	0.3	0	4	0.8	0	4	19.6	0

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

Reporting Period: Total Experience of Residents Completing Programs in 2015-2016

Residency Review Committee for Surgery

Report Date: September 19, 2016

[PAGE 6]

Number of Programs in the Nation: 27 Number of Residents in the Nation: 32

		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	17.2	0	62	32.7	9	85	1.1	0	10	1.7	0	13	0.8	0	3
	A-V GRAFT	5.1	0	23	10.5	0	27	0.2	0	3	0.4	0	8	0.8	0	8
	PERCUTANEOUS-OTHER ACCESS	0.7	0	10	2.3	0	8	0.0	0	0	0.2	0	4	0.6	0	6
	REVISION, A-V ACCESS	8.5	0	30	12.3	2	38	0.2	0	2	0.9	0	11	2.0	0	13
	Subtotal - VASCULAR ACCESS	31.4	0	98	57.8	15	143	1.4	0	14	3.1	0	32	4.2	0	24
AMPUTATIONS	AMPUTATION, DIGIT	3.0	0	17	6.1	0	21	0.3	0	3	0.2	0	1	1.2	0	8
	AMPUTATION, TRANSMETATARSAL	3.8	0	24	5.4	0	22	0.5	0	3	0.1	0	3	0.9	0	4
	AMPUTATION, BELOW KNEE	8.1	0	30	11.7	1	33	0.8	0	7	0.6	0	4	0.3	0	3
	AMPUTATION, ABOVE KNEE	5.3	0	23	7.7	0	20	0.6	0	7	0.4	0	3	0.5	0	3
	AMPUTATION, UPPER EXTREMITY	0.1	0	1	0.3	0	3	0.0	0	0	0.0	0	1	0.0	0	0
	AMPUTATION CLOSURE, REVISION	0.7	0	5	1.4	0	6	0.1	0	1	0.1	0	2	0.1	0	1
	Subtotal - AMPUTATIONS	21.1	0	86	32.6	3	87	2.3	0	15	1.4	0	8	3.0	0	12
Minor Vascular	Total - Minor VS Procedures	163.3	0	624	225.7	94	432	6.1	0	50	9.7	0	60	370.8	38	1,022
Total Vascular	Total - VS Procedures	427.4	0	1,084	433.6	159	837	8.4	0	57	27.6	0	86	562.8	84	1,290
IMAGING/DIAGNOSTIC	CAROTID DUPLEX ULTRASOUND	10.8	0	131	26.6	0	147	0.0	0	0	4.2	0	123	0.0	0	0
	PERIPHERAL ARTERIAL PHYSIOL TEST	16.3	0	207	30.1	0	199	0.0	0	0	8.4	0	241	0.0	0	0
	PERIPH ARTERIAL DUPLEX ULTRASOUND	7.9	0	78	22.6	0	132	0.0	0	0	2.5	0	76	0.0	0	0
	VENOUS DUPLEX ULTRASOUND	8.4	0	94	43.2	0	281	0.0	0	0	1.5	0	45	0.0	0	0
	VISCERAL VASCULAR ULTRASOUND	4.8	0	74	11.0	0	83	0.0	0	0	0.7	0	15	0.0	0	0
	TRANSCRANIAL DOPPLER	0.2	0	6	3.8	0	102	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - IMAGING/DIAGNOSTIC STUDIES	48.4	0	507	137.4	0	617	0.0	0	0	17.3	0	500	0.0	0	0

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

Reporting Period: Total Experience of Residents Completing Programs in 2015-2016

Residency Review Committee for Surgery

Report Date: September 19, 2016

[PAGE 7]

Number of Programs in the Nation: 27 Number of Residents in the Nation: 32

		Surgeon Chief			Surgeon Junior			Teach Assist			First Assist			Secondary Procedures		
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Area	RRC Procedure															
SKIN/SOFT TIS	MAJ LYMPHADENECTOMIES	0.0	0	0	0.4	0	4	0.0	0	0	0.0	0	1	0.1	0	2
	MAJ EXC & REP/GRAFT FOR SKIN NEOPLASM	0.1	0	1	3.3	0	18	0.1	0	1	0.2	0	2	0.6	0	10
	SENTINEL LYMPH NODE BIOPSY FOR MELANOMA	0.0	0	0	1.0	0	9	0.0	0	0	0.1	0	1	0.7	0	16
	RAD EXCIS SOFT TIS TUMOR	0.1	0	1	0.6	0	3	0.0	0	0	0.0	0	1	0.1	0	1
	PILONIDAL CYSTECTOMY	0.0	0	0	1.3	0	8	0.0	0	0	0.1	0	1	0.0	0	1
	OTHER MAJOR SKIN/SOFT TIS	5.0	0	32	12.8	1	39	0.3	0	4	0.3	0	4	5.1	0	76
	Subtotal - SKIN/SOFT TIS	5.1	0	32	19.4	1	48	0.4	0	5	0.7	0	6	6.6	0	78
	HEAD/NECK	RESECT LESION-LIPS	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	1	0.0	0
RESECT LESION-TONGUE		0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	1
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	0.0	0	1	0.0	0	0	0.0	0	1	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	2	0.0	0	0	0.0	0	1	0.0	0	1
RESECT MANDIBLE/MAXILLA		0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
TRACHEOSTOMY		0.1	0	1	3.2	0	14	0.0	0	0	0.2	0	1	0.3	0	4
OTHER MAJOR HEAD/NECK		0.0	0	0	1.3	0	6	0.0	0	0	0.0	0	1	0.1	0	1
Subtotal - HEAD/NECK		0.1	0	1	4.6	0	14	0.0	0	0	0.3	0	2	0.4	0	5
BREAST	BREAST BIOPSY	0.0	0	0	2.4	0	13	0.0	0	0	0.2	0	4	0.5	0	9
	SENTINEL LYMPH NODE BIOPSY (BREAST)	0.0	0	0	0.6	0	6	0.0	0	0	0.0	0	0	1.4	0	15
	SIMPLE MASTECTOMY	0.0	0	1	2.0	0	11	0.0	0	0	0.2	0	2	0.5	0	11
	MOD RAD MASTECTOMY	0.0	0	0	1.0	0	6	0.0	0	0	0.2	0	2	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	0.0	0	0	2.4	0	21	0.0	0	0	0.2	0	3	0.1	0	1
	BREAST RECONSTRUCTION	0.0	0	0	3.3	0	61	0.0	0	0	0.5	0	8	0.6	0	12
	OTHER MAJOR BREAST	0.0	0	0	0.0	0	1	0.0	0	0	0.1	0	1	0.0	0	0
	Subtotal - BREAST	0.0	0	1	11.9	0	62	0.0	0	0	1.3	0	19	3.2	0	38

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

Reporting Period: Total Experience of Residents Completing Programs in 2015-2016

Residency Review Committee for Surgery

Report Date: September 19, 2016

[PAGE 8]

Number of Programs in the Nation: 27 Number of Residents in the Nation: 32

		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															
ALIM TR-ESOPHAGUS	ESOPHAGECTOMY	0.1	0	3	0.2	0	2	0.0	0	0	0.1	0	2	0.0	0	0
	ESOPHAGO-GASTRECTOMY	0.0	0	0	0.1	0	2	0.0	0	0	0.1	0	1	0.0	0	0
	ANTIREFLUX PROC-OPEN	0.0	0	1	0.1	0	1	0.0	0	0	0.0	0	0	0.1	0	2
	ANTIREFLUX PROC-LAPAROSCOPIC	0.0	0	0	0.3	0	4	0.0	0	0	0.8	0	20	0.1	0	2
	ESOPHAGEAL BYPASS PROCEDURE	0.0	0	0	0.0	0	1	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	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	ESOPHAGEAL DIVERTICULECTOMY	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR ESOPHAGUS	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.1	0	1
	Subtotal - ALIM TR-ESOPHAGUS		0.1	0	3	0.8	0	7	0.0	0	0	1.0	0	22	0.2	0
ALIM TR-STOMACH	GASTROSTOMY (ALL TYPES)-OPEN	0.0	0	1	0.6	0	4	0.0	0	0	0.0	0	1	0.3	0	3
	GASTROSTOMY (ALL TYPES)-LAPAROSCOPIC	0.0	0	0	0.2	0	2	0.0	0	0	0.1	0	2	0.1	0	2
	GASTRIC RESECT, PARTIAL-OPEN	0.0	0	0	0.3	0	1	0.0	0	0	0.1	0	2	0.0	0	1
	GASTRIC RESECT, PARTIAL-LAPAROSCOPIC	0.0	0	0	0.6	0	7	0.0	0	0	0.3	0	4	0.0	0	0
	GASTRIC RESECT, TOTAL	0.0	0	0	0.0	0	1	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	0.0	0	0
	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	0.1	0	1	0.0	0	0	0.0	0	1	0.0	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)	0.0	0	0	0.1	0	2	0.0	0	0	0.0	0	0	0.0	0	0
	GASTRIC REDUC FOR MORBID OBESITY-LAP	0.0	0	0	0.4	0	5	0.0	0	0	0.1	0	1	0.0	0	0
	OTHER MAJOR STOMACH [no open/close dist]	0.0	0	1	0.4	0	6	0.0	0	0	0.0	0	1	0.1	0	1
	Subtotal - ALIM TR-STOMACH		0.1	0	1	2.6	0	10	0.0	0	0	0.6	0	7	0.5	0

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

Reporting Period: Total Experience of Residents Completing Programs in 2015-2016

Residency Review Committee for Surgery

Report Date: September 19, 2016

[PAGE 9]

Number of Programs in the Nation: 27 Number of Residents in the Nation: 32

		Surgeon Chief			Surgeon Junior			Teach Assist			First Assist			Secondary Procedures			
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Area	RRC Procedure																
ALIM TR-SMALL INT	ENTEROLYSIS - OPEN	0.1	0	1	0.6	0	12	0.0	0	0	0.0	0	0	1.2	0	8	
	ENTEROLYSIS-LAPAROSCOPIC	0.0	0	0	0.3	0	3	0.0	0	0	0.0	0	0	0.2	0	2	
	ENTERECTOMY - OPEN	0.0	0	0	1.3	0	5	0.0	0	1	0.2	0	2	0.8	0	6	
	ENTERECTOMY-LAPAROSCOPIC	0.0	0	0	0.1	0	2	0.0	0	0	0.0	0	0	0.1	0	2	
	REPAIR PERF-DUODENAL DIS	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0	
	REPAIR PERF-SMALL BOWEL DIS	0.1	0	1	0.3	0	2	0.0	0	0	0.0	0	1	0.4	0	5	
	ILEOSTOMY (NOT ASSOC W/COLECTOMY)-OPEN	0.0	0	1	0.2	0	2	0.0	0	0	0.1	0	1	0.2	0	2	
	ILEOSTOMY (NOT ASSOC W/COLECTOMY)-LAP	0.0	0	0	0.2	0	1	0.0	0	0	0.0	0	0	0.0	0	1	
	DIVERTICULECTOMY	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0	
	OTHER MAJOR SMALL INT	0.0	0	0	0.4	0	3	0.0	0	0	0.0	0	0	0.4	0	2	
	Subtotal - ALIM TR-SMALL INT		0.2	0	3	3.5	0	24	0.0	0	1	0.3	0	2	3.3	0	15
ALIM TR-LARGE INT	APPELDECTOMY-OPEN	0.0	0	0	1.2	0	7	0.0	0	0	0.1	0	1	0.3	0	2	
	APPELDECTOMY-LAPAROSCOPIC	0.3	0	6	7.2	0	24	0.0	0	0	0.5	0	6	0.1	0	1	
	COLOSTOMY (ALL TYPES)	0.0	0	1	0.4	0	2	0.0	0	0	0.1	0	1	0.1	0	1	
	COLOSTOMY CLOSURE	0.0	0	1	0.4	0	2	0.0	0	0	0.0	0	0	0.1	0	2	
	COLECTOMY/PROCTECTOMY-OPEN	0.0	0	1	3.7	0	16	0.0	0	1	0.4	0	3	0.6	0	6	
	COLECTOMY/PROCTECTOMY-LAPAROSCOPIC	0.0	0	1	1.1	0	12	0.0	0	0	0.3	0	2	0.0	0	0	
	COLECTOMY W/ ILEOANAL PULL-THRU	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	1	0.0	0	0	
	COLECTOMY W/ CONTINENT RECONSTRUCT	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0	
	ABDOMINO-PERINEAL RESECTION	0.0	0	0	0.4	0	8	0.0	0	0	0.1	0	2	0.1	0	2	
	TRANSANAL RECTAL TUMOR EXCISION	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0	
	REPAIR PERF-COLON DIS	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.1	0	2	
	OTHER MAJOR LARGE INT	0.0	0	0	0.2	0	1	0.0	0	0	0.1	0	2	0.1	0	1	
	Subtotal - ALIM TR-LARGE INT		0.4	0	6	14.5	0	51	0.0	0	1	1.4	0	7	1.4	0	8

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

Reporting Period: Total Experience of Residents Completing Programs in 2015-2016

Residency Review Committee for Surgery

Report Date: September 19, 2016

[PAGE 10]

Number of Programs in the Nation: 27 Number of Residents in the Nation: 32

		Surgeon Chief			Surgeon Junior			Teach Assist			First Assist			Secondary Procedures		
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Area	RRC Procedure															
ALIM TR-ANO-RECTAL	HEMORRHOIDECTOMY (ALL)	0.0	0	1	1.3	0	9	0.0	0	0	0.2	0	1	0.0	0	0
	SPHINCTEROTOMY/SPHINCTEROPLASTY	0.0	0	0	0.2	0	2	0.0	0	0	0.0	0	0	0.0	0	0
	DRAINAGE PROC FOR ANORECTAL ABSCESS	0.0	0	0	1.3	0	9	0.0	0	1	0.0	0	0	0.0	0	0
	REPAIR ANORECTAL FISTULA	0.0	0	0	0.3	0	2	0.0	0	0	0.0	0	0	0.0	0	0
	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	2	0.0	0	0	0.0	0	1	0.0	0	1
	OTHER MAJOR ANO-RECTAL	0.0	0	0	1.2	0	12	0.0	0	0	0.1	0	1	0.0	0	1
	Subtotal - ALIM TR-ANO-RECTAL	0.0	0	1	4.4	0	27	0.0	0	1	0.3	0	2	0.1	0	1
	ABDOMEN-GENERAL	EXP LAP EXCLUSIVE OF TRAUMA-OPEN	1.2	0	5	4.4	0	17	0.0	0	0	0.4	0	3	4.3	0
EXP LAP EXCLUSIVE OF TRAUMA-LAPAR		0.2	0	6	1.2	0	7	0.0	0	0	0.1	0	2	0.5	0	4
DRAINAGE INTRA-ABDOMINAL ABSCESS		0.1	0	3	0.0	0	1	0.0	0	0	0.1	0	1	0.0	0	1
MAJ RETROPERIT/PELVIC NODE DISSEC-OPEN		0.0	0	1	0.0	0	1	0.0	0	0	0.0	0	0	0.1	0	1
OTHER MAJOR AB-GENERAL-LAP COMPLEX		0.0	0	1	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	1
OTHER MAJOR AB-GENERAL		0.7	0	7	1.1	0	7	0.0	0	0	0.0	0	1	0.4	0	6
Subtotal - ABDOMEN-GENERAL		2.2	0	10	6.8	0	21	0.0	0	0	0.7	0	4	5.3	0	29
ABDOMEN-LIVER	LOBECTOMY OR SEGMENTECTOMY	0.0	0	0	0.6	0	6	0.0	0	0	0.2	0	2	0.1	0	2
	WEDGE RESECTION/OPEN BIOPSY	0.0	0	0	0.1	0	2	0.0	0	0	0.0	0	1	0.2	0	2
	DRAINAGE LIVER ABSCESS	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	1
	OTHER MAJOR LIVER	0.0	0	0	0.2	0	3	0.0	0	0	0.0	0	0	0.1	0	1
	Subtotal - ABDOMEN-LIVER	0.0	0	0	0.8	0	9	0.0	0	0	0.2	0	2	0.3	0	3

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

Reporting Period: Total Experience of Residents Completing Programs in 2015-2016

Residency Review Committee for Surgery

Report Date: September 19, 2016

[PAGE 11]

Number of Programs in the Nation: 27 Number of Residents in the Nation: 32

		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-BILIARY	CHOLECYSTOSTOMY	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	1
	CHOLECYSTECTOMY W/WO OPER GRAMS-OPEN	0.0	0	1	1.5	0	6	0.0	0	0	0.1	0	2	0.3	0	2
	CHOLECYSTECTOMY W/WO OPER GRAMS-LAPAR	0.2	0	2	18.2	0	80	0.1	0	2	1.8	0	21	0.2	0	1
	COMMON BILE DUCT EXPLOR-OPEN	0.0	0	0	0.1	0	1	0.0	0	0	0.1	0	2	0.1	0	1
	COMMON BILE DUCT EXPLOR-LAPAR	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	CHOLEDOCHOENTERIC ANASTOMOSIS	0.0	0	0	0.0	0	0	0.0	0	0	0.2	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	0.1	0	2	0.2	0	4	0.0	0	0	0.0	0	1	0.0	0	1
	Subtotal - ABDOMEN-BILIARY	0.3	0	2	19.9	0	81	0.1	0	2	2.1	0	23	0.7	0	3
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	0.0	0	1	0.0	0	0
	PANC RESECTION, DISTAL	0.0	0	0	0.1	0	1	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	0.2	0	3	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	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	PANCREATICOJEJUNOSTOMY	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR PANCREAS	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	1
	Subtotal - ABDOMEN-PANCREAS	0.0	0	0	0.3	0	2	0.0	0	0	0.3	0	3	0.0	0	1
ABDOMEN-SPLEEN	SPLENECTOMY FOR DISEASE-OPEN	0.1	0	2	0.3	0	3	0.0	0	0	0.0	0	1	0.1	0	2
	SPLENECTOMY FOR DISEASE-LAPAR	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	1
	Subtotal - ABDOMEN-SPLEEN	0.1	0	2	0.3	0	3	0.0	0	0	0.0	0	1	0.1	0	2
ABDOMEN-HERNIA	INGUINAL-FEMORAL (ALL)-OPEN	0.0	0	0	13.5	0	43	0.0	0	0	0.8	0	11	0.5	0	2
	INGUINAL-FEMORAL (ALL)-LAPAROS	0.0	0	1	4.6	0	46	0.0	0	0	0.6	0	4	0.2	0	2
	VENTRAL	0.1	0	1	11.0	0	34	0.0	0	0	0.6	0	4	1.2	0	4
	OTHER MAJOR HERNIAS	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - ABDOMEN-HERNIA	0.1	0	1	29.2	0	123	0.0	0	0	2.0	0	18	1.9	0	6

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

Reporting Period: Total Experience of Residents Completing Programs in 2015-2016

Residency Review Committee for Surgery

Report Date: September 19, 2016

[PAGE 12]

Number of Programs in the Nation: 27 Number of Residents in the Nation: 32

		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															
ENDOCRINE	THYROIDECTOMY, PART OR TOT	0.0	0	0	3.2	0	29	0.0	0	1	0.3	0	6	0.0	0	1
	PARATHYROIDECTOMY	0.0	0	0	2.4	0	22	0.0	0	0	0.3	0	7	0.3	0	6
	ADRENALECTOMY	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	PANCREATIC ENDOCRINE PROC	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	1	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		0.0	0	0	5.6	0	51	0.0	0	1	0.6	0	13	0.4	0
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	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	1	0.1	0	2
	NERVE REPAIR	0.0	0	0	0.2	0	1	0.0	0	0	0.0	0	1	0.0	0	0
	VASCULAR REPAIR	0.0	0	0	0.0	0	1	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	4	0.0	0	0	0.3	0	2	0.1	0	1
	Subtotal - HAND		0.0	0	0	0.7	0	4	0.0	0	0	0.3	0	3	0.2	0

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

Reporting Period: Total Experience of Residents Completing Programs in 2015-2016

Residency Review Committee for Surgery

Report Date: September 19, 2016

[PAGE 13]

Number of Programs in the Nation: 27 Number of Residents in the Nation: 32

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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															
THORACIC	EXPLOR THORACOTOMY-OPEN	0.1	0	2	1.4	0	6	0.0	0	0	0.1	0	2	0.6	0	5
	EXPLOR THORACOTOMY W/WO BX-THORACOS	0.0	0	0	1.4	0	8	0.0	0	0	0.0	0	1	0.3	0	2
	PLEURODESIS-THORACOSCOPIC	0.0	0	0	0.8	0	4	0.0	0	0	0.1	0	1	0.1	0	1
	REPAIR DIAPH HERNIA	0.0	0	0	0.2	0	4	0.0	0	0	0.1	0	2	0.0	0	1
	EXCISION MEDIASTINAL TUMOR	0.1	0	1	0.4	0	4	0.0	0	0	0.0	0	1	0.1	0	3
	PNEUMONECTOMY	0.0	0	0	0.2	0	2	0.0	0	0	0.0	0	0	0.0	0	1
	LOBECTOMY/SEGMENTAL RESECT LUNG-OPEN	0.1	0	1	0.9	0	5	0.0	0	0	0.2	0	2	0.2	0	2
	LOBECTOMY/SEGMENTAL RESECT LUNG-THORACOS	0.0	0	0	0.6	0	4	0.0	0	0	0.0	0	1	0.0	0	0
	WEDGE RESECTION LUNG-OPEN	0.1	0	1	0.5	0	2	0.0	0	0	0.0	0	0	0.1	0	1
	WEDGE RESECTION LUNG-THORACOSCOPIC	0.0	0	0	1.8	0	14	0.0	0	0	0.4	0	5	0.2	0	3
	THORACIC OUTLET DECOMPRESS PROC	1.6	0	13	0.8	0	7	0.0	0	0	0.1	0	1	0.4	0	4
	OPEN DRAINAGE OF EMPYEMA	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	1	0.0	0	1
	PERICARDIECTOMY	0.0	0	0	0.3	0	3	0.0	0	0	0.0	0	0	0.0	0	0
	PERICARD WINDOW FOR DRAINAGE-THORACOSCOPI	0.0	0	0	0.1	0	2	0.0	0	0	0.0	0	1	0.0	0	1
	PACEMAKER INSERTION	0.0	0	0	0.2	0	1	0.0	0	0	0.1	0	2	0.1	0	1
	CARDIAC PROCEDURES	0.3	0	7	5.1	0	32	0.0	0	0	2.8	0	26	2.8	0	23
	SYMPATHECTOMY, THORACOLUMBAR-THORACOSCOP	0.1	0	2	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	ESOPHAGOMYOTOMY (HELLER)-THORACOSCOPIC	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR THORACIC	0.1	0	1	3.1	0	20	0.0	0	0	0.7	0	5	1.1	0	10
	Subtotal - THORACIC	2.3	0	15	17.7	0	45	0.0	0	0	4.7	0	33	5.9	0	27

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

Reporting Period: Total Experience of Residents Completing Programs in 2015-2016

Residency Review Committee for Surgery

Report Date: September 19, 2016

[PAGE 14]

Number of Programs in the Nation: 27

Number of Residents in the Nation: 32

		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															
PEDIATRIC	HERNIORRHAPHY, INGUINAL/UMBILICAL	0.0	0	1	1.3	0	7	0.0	0	0	0.0	0	0	0.1	0	1
	REP BRANCHIAL CLEFT ANOM/THYRO DUCT CYST	0.0	0	0	0.1	0	3	0.0	0	0	0.0	0	0	0.0	0	0
	REPAIR DEFORMITY CHEST WALL	0.0	0	0	0.1	0	2	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	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	ANTIREFLUX PROCEDURE-LAPAROSCOPIC (PEDS)	0.0	0	0	0.1	0	1	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	1	0.0	0	0	0.0	0	0	0.0	0	1
	REPAIR PYLORIC STENOSIS	0.0	0	0	0.2	0	1	0.0	0	0	0.0	0	1	0.0	0	0
	OPERATION FOR MALROTATION/INTUSSUSCEPT	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	1
	PROC FOR MECONIUM ILEUS/NEC ENTEROCOLIT	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	DEFIN OP FOR HIRSCHSPRUNGS/IMPERF ANUS	0.0	0	0	0.0	0	0	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	0.1	0	1	0.0	0	0	0.0	0	0	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	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR PEDIATRIC	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	1	0.0	0	0
	Subtotal - PEDIATRIC	0.0	0	1	2.0	0	11	0.0	0	0	0.1	0	1	0.1	0	1

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

Reporting Period: Total Experience of Residents Completing Programs in 2015-2016

Residency Review Committee for Surgery

Report Date: September 19, 2016

[PAGE 15]

Number of Programs in the Nation: 27 Number of Residents in the Nation: 32

		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															
GENITO-URINARY	HYDROCELECTOMY	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	1
	CYSTOSTOMY	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.3	0	8
	CYSTECTOMY	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	NEPHRECTOMY (W/ DONOR NEPH SEE TRANSPLT)	0.1	0	1	0.3	0	2	0.0	0	0	0.2	0	2	0.3	0	3
	ILEAL URINARY CONDUIT	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR GENITO-URINARY	0.0	0	1	0.3	0	2	0.0	0	0	0.1	0	1	0.1	0	1
	OTHER MAJOR GENITO-URINARY - LAP BASIC	0.0	0	0	0.1	0	1	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	0.1	0	1	0.8	0	4	0.0	0	0	0.3	0	2	0.7	0	8
GYNECOLOGY	HYSTERECTOMY (ALL)	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	1
	SALPINGO-OOPHORECTOMY	0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	1	0.0	0	0
	OTHER MAJOR GYNECOLOGY	0.0	0	0	0.2	0	3	0.0	0	0	0.0	0	0	0.2	0	4
	OTHER MAJOR GYNECOLOGY - LAPAROSCOPIC	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - GYNECOLOGY	0.0	0	0	0.3	0	5	0.0	0	0	0.1	0	1	0.2	0	4
PLASTIC	REPAIR CLEFT LIP/CLEFT PALATE	0.0	0	0	0.0	0	0	0.0	0	0	0.2	0	4	0.0	0	0
	MAJOR RECONSTRUCTIVE PROC	0.0	0	0	1.0	0	12	0.0	0	0	0.0	0	1	0.2	0	2
	SKIN-GRAFTING, NONBURN (ALL)	0.5	0	5	1.8	0	8	0.0	0	1	0.2	0	2	0.5	0	5
	COMPOSITE TISSUE TRANSFER	0.3	0	4	1.0	0	12	0.0	0	0	0.2	0	2	1.3	0	13
	BURN DEBRIDEMENT AND/OR GRAFTING	0.0	0	0	0.5	0	4	0.0	0	0	0.2	0	6	1.3	0	24
	REDUCTION AND STABILIZATION OF MAXILLOFACIAL	0.0	0	0	0.1	0	1	0.0	0	0	0.1	0	1	0.0	0	1
	OTHER MAJOR PLASTIC	0.2	0	4	1.8	0	16	0.0	0	0	0.3	0	4	0.4	0	4
	Subtotal - PLASTIC	0.9	0	13	6.3	0	39	0.0	0	1	1.2	0	14	3.6	0	28
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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VASCULAR SURGERY - INTEGRATED : NATIONAL RESIDENT REPORT (Main Table)

Reporting Period: Total Experience of Residents Completing Programs in 2015-2016

Residency Review Committee for Surgery

Report Date: September 19, 2016

[PAGE 16]

Number of Programs in the Nation: 27 Number of Residents in the Nation: 32

		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															
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	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	OPEN REDUCTION OF OPEN/CLOSED FRACTURE	0.0	0	0	0.1	0	2	0.0	0	0	0.0	0	0	0.0	0	0
	CLOSED REDUCTION OF FRACTURE	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER MAJOR ORTHOPAEDICS	0.1	0	2	0.9	0	10	0.0	0	0	0.3	0	6	0.5	0	8
	Subtotal - ORTHOPAEDICS	0.1	0	2	1.0	0	13	0.0	0	0	0.3	0	6	0.5	0	8
ORGAN TRANSPLANT	LIVER TRANSPLANT	0.0	0	0	0.4	0	8	0.0	0	0	0.1	0	1	0.1	0	2
	RENAL TRANSPLANT	0.0	0	0	3.8	0	18	0.0	0	0	0.3	0	4	0.5	0	5
	PANCREAS TRANSPLANT	0.0	0	0	0.2	0	3	0.0	0	0	0.1	0	2	0.0	0	0
	DONOR NEPHRECTOMY	0.0	0	0	0.5	0	3	0.0	0	0	0.1	0	2	2.3	0	16
	DONOR HEPATECTOMY	0.0	0	0	0.5	0	5	0.0	0	0	0.1	0	3	0.1	0	1
	EN BLOC ABD ORGAN RETRIEVAL	0.0	0	0	0.2	0	3	0.0	0	0	0.0	0	1	0.1	0	2
	OTHER MAJOR ORGAN TRANSPLANT	0.0	0	0	0.1	0	3	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - ORGAN TRANSPLANT	0.0	0	0	5.6	0	33	0.0	0	0	0.7	0	6	3.0	0	22

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

Reporting Period: Total Experience of Residents Completing Programs in 2015-2016

Residency Review Committee for Surgery

Report Date: September 19, 2016

[PAGE 17]

Number of Programs in the Nation: 27 Number of Residents in the Nation: 32

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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	1	0.0	0	0	0.0	0	1	0.0	0	1
	DUODENAL TRAUMA-CLOSURE/RESECT/EXCLUSION	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	1
	SM BOWEL TRAUMA-CLOSURE/RESECT/EXCLUSION	0.0	0	0	0.1	0	2	0.0	0	0	0.0	0	0	0.3	0	3
	COLON TRAUMA-CLOSURE/RESECT/EXCLUSION	0.0	0	1	0.2	0	2	0.0	0	0	0.0	0	0	0.1	0	1
	NECK EXPLOR FOR TRAUMA	0.1	0	1	0.1	0	1	0.0	0	0	0.0	0	0	0.1	0	1
	EXPLOR THORACOTOMY - OPEN	0.0	0	1	0.2	0	2	0.0	0	0	0.0	0	0	0.3	0	5
	EXPLOR THORACOTOMY - THORACOSCOPIC	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	1
	EXPLOR LAPAROTOMY - OPEN	0.1	0	1	0.7	0	5	0.0	0	0	0.3	0	2	0.6	0	5
	SPLENECTOMY/SPLENORRHAPHY-OPEN	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	REPAIR/DRAINAGE HEPATIC LACS-OPEN	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	1
	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	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	CLOSED REDUCT OF FRACTURE	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	DEBRIDE/SUTURE MAJOR WOUNDS	0.2	0	2	0.5	0	4	0.0	0	0	0.0	0	1	0.3	0	3
	REPAIR BLADDER INJURY	0.0	0	0	0.0	0	0	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	1	0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	1
	FASCIOTOMY FOR INJURY	0.6	0	4	0.6	0	3	0.0	0	1	0.0	0	0	1.9	0	8
	MANAGEMENT CARDIAC INJURY	0.0	0	1	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	1
	OTHER MAJOR TRAUMA	0.2	0	2	1.7	0	12	0.1	0	2	0.0	0	1	0.5	0	4
	Subtotal - TRAUMA	1.2	0	6	4.3	0	19	0.1	0	2	0.3	0	3	4.2	0	22

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

Reporting Period: Total Experience of Residents Completing Programs in 2015-2016

Residency Review Committee for Surgery

Report Date: September 19, 2016

[PAGE 18]

Number of Programs in the Nation: 27 Number of Residents in the Nation: 32

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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															
ENDOSCOPY (NOT FOR MAJOR)	LARYNGOSCOPY	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	BRONCHOSCOPY	0.0	0	0	1.3	0	8	0.0	0	0	0.3	0	4	1.0	0	6
	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	1.1	0	14	0.0	0	0	0.0	0	1	0.3	0	7
	PERCUTAN ENDO GASTROSTOMY (PEG)	0.0	0	1	1.1	0	5	0.0	0	0	0.0	0	0	0.6	0	6
	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	0.0	0	0	0.3	0	5	0.0	0	0	0.0	0	1	0.2	0	3
	FLEXIBLE COLONOSCOPY W/WO	0.0	0	0	0.6	0	16	0.0	0	0	0.0	0	0	0.1	0	2
	CHOLEDOCHOSCOPY	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	1
	CYSTO/URETHROSCOPY	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	OTHER ENDOSCOPY	0.0	0	0	0.1	0	2	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - ENDOSCOPY (NOT MAJOR CRED)	0.0	0	1	4.5	0	30	0.0	0	0	0.3	0	4	2.3	0	12
	MISCELLANEOUS (NOT FOR)	REMOVE SKIN MOLES, SMALL TUMORS,	0.1	0	1	2.7	0	16	0.0	0	0	0.3	0	4	0.3	0
REMOVAL SUBCUT SMALL TUMORS,		0.0	0	1	1.3	0	7	0.0	0	0	0.1	0	2	0.4	0	3
REPAIR MINOR WOUNDS AND GRAFTS		0.0	0	1	0.3	0	3	0.0	0	0	0.1	0	2	0.2	0	2
BANDING/INCISION THROMBOSED		0.0	0	0	0.2	0	5	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		7.3	0	62	27.7	3	129	0.3	0	3	1.1	0	6	14.3	0	97
Subtotal - MISC (NOT MAJOR CRED)		7.4	0	62	32.2	3	149	0.3	0	3	1.5	0	13	15.3	0	98
PATIENT CARE (NOT FOR)	NON-OPERATIVE TRAUMA	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	1
	Subtotal - PATIENT CARE (NOT MAJOR)	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	1

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

Reporting Period: Total Experience of Residents Completing Programs in 2015-2016

Residency Review Committee for Surgery

Report Date: September 19, 2016

[PAGE 19]

Number of Programs in the Nation: 27 Number of Residents in the Nation: 32

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Area	RRC Procedure															
SURGICAL CRITICAL CARE PAT	VENTILATORY MANAGEMENT	0.4	0	5	1.1	0	18	0.0	0	0	0.0	0	0	1.0	0	14
	BLEED (NON-TRAUMA) > 3 UNITS	0.3	0	4	0.4	0	6	0.0	0	0	0.0	0	0	0.5	0	5
	HEMODYNAMIC INSTABILITY	0.4	0	8	0.8	0	10	0.0	0	0	0.0	0	0	1.0	0	14
	ORGAN DYSFUNCTION	0.3	0	4	0.6	0	13	0.0	0	0	0.0	0	0	0.8	0	12
	DYSRHYTHMIAS	0.2	0	2	0.4	0	6	0.0	0	0	0.0	0	0	0.3	0	6
	INVASIVE LINE MANAGE/MONITORING	0.4	0	5	1.0	0	13	0.0	0	0	0.0	0	0	1.1	0	15
	PARENTERAL/ENTERAL NUTRITION	0.1	0	3	0.5	0	9	0.0	0	0	0.0	0	0	0.6	0	9
	Subtotal - CRITCARE PAT MAN (NOT MAJ)	2.2	0	28	4.9	0	68	0.0	0	0	0.0	0	0	5.3	0	75
CRITICAL CARE (NOT FOR MAJOR)	CRITICAL CARE OTHER	0.0	0	0	0.7	0	5	0.0	0	0	0.1	0	1	0.0	0	0
	Subtotal - CRITICAL CARE (NOT FOR MAJ)	0.0	0	0	0.7	0	5	0.0	0	0	0.1	0	1	0.0	0	0
OPHTHALMOLOGY (NOT FOR MAJOR)	OPHTHALMOLOGY	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - OPTHALMOLOGY (NOT FOR MAJ)	0.0	0	0	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
UROLOGY (NOT FOR MAJOR)	UROLOGY	0.1	0	2	0.3	0	3	0.0	0	0	0.0	0	1	0.3	0	6
	Subtotal - UROLOGY (NOT FOR MAJ)	0.1	0	2	0.3	0	3	0.0	0	0	0.0	0	1	0.3	0	6
NEUROSURGERY (NOT FOR MAJOR)	NEUROSURGERY	0.0	0	0	0.3	0	3	0.0	0	0	0.1	0	1	0.2	0	2
	Subtotal - NEUROSURG (NOT FOR MAJ)	0.0	0	0	0.3	0	3	0.0	0	0	0.1	0	1	0.2	0	2
GYNECOLOGY (NOT FOR MAJOR)	GYNECOLOGY	0.0	0	0	0.1	0	3	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - GYNECOLOGY (NOT FOR MAJ)	0.0	0	0	0.1	0	3	0.0	0	0	0.0	0	0	0.0	0	0
RADIOLOGY (NOT FOR MAJOR)	RADIOLOGY	3.8	0	102	7.4	0	55	0.0	0	1	0.4	0	7	58.4	0	435
	Subtotal - RADIOLOGY (NOT FOR MAJ)	3.8	0	102	7.4	0	55	0.0	0	1	0.4	0	7	58.4	0	435
ULTRASOUND (NOT FOR MAJOR)	MISCELLANEOUS ULTRASOUND	0.2	0	4	0.2	0	4	0.0	0	0	0.0	0	0	3.4	0	99
	Subtotal - ULTRASOUND (NOT FOR MAJ)	0.2	0	4	0.2	0	4	0.0	0	0	0.0	0	0	3.4	0	99

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Reporting Period: Total Experience of Residents Completing Programs in 2015-2016

Residency Review Committee for Surgery

Report Date: September 19, 2016

[PAGE 20]

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Area	RRC Procedure															
TRAUMA (NOT FOR MAJOR CREDIT)	OTHER TRAUMA	0.0	0	1	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - TRAUMA (NOT FOR MAJ CRED)	0.0	0	1	0.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
TOTAL FOR CREDIT	Major Operations	493.4	0	1,235	751.2	245	1,657	9.1	0	57	66.2	0	571	635.4	98	1,357
Non-Tracked	Non-Tracked Codes	2.0	0	12	12.1	0	71	0.0	0	0	1.8	0	12	24.3	0	165

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