



Accreditation Council for Graduate Medical Education

Vascular Surgery Case Logs

National Data Report

Prepared by: Department of Applications and Data Analysis

- I. National Resident Statistics Report
 - 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).
 - B. Descriptive statistics have been carefully chosen to provide the most useful information for judging performance at the program level.
 - i. "Natl Res AVE" - The 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 MED" - This statistic represents the median or middle value of procedure counts.
- II. National Benchmark Report 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 residents achieved less than the value while the remaining 90% achieved more than the value.

VASCULAR SURGERY: NATIONAL RESIDENT REPORT (Main Table)
Reporting Period: Total Experience of Residents Completing Programs in 2012-2013
Residency Review Committee for Surgery
Report Date: September 10, 2013

[PAGE 1]

Number of Programs in the Nation: 91 Number of Residents in the Nation: 121

		Surgeon Fellow			Teaching Assistant			First Assistant			Secondary Procedures			
		Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res AVE	Natl Res STD	Natl Res MED	
RRC Area	RRC Procedure													
Aneurysm-Repair	Open Rep Infrarenal A-I Aneur, Rupt	3.0	2	3	0.0	0	0	0.0	0	0	0.1	0	0	
	Open Rep Infrarenal A-I Aneur, Elect	10.0	6	9	0.1	1	0	0.1	0	0	0.5	1	0	
	Endovas Rep Abd Aort/Iliac Aneur	45.1	17	43	0.3	1	0	0.3	1	0	15.5	19	8	
	Endovas Rep of Iliac Artery	2.1	2	2	0.0	0	0	0.0	0	0	0.7	1	0	
	Rep Suprarenal Aortic Aneurysm	2.6	3	2	0.0	0	0	0.0	0	0	0.1	0	0	
	Rep Thoracic Aortic Aneurysm	0.5	1	0	0.0	0	0	0.0	0	0	0.0	0	0	
	Endovas Rep Thora Aortic Aneurysm	14.1	10	11	0.0	0	0	0.1	0	0	3.0	5	2	
	Rep Thoracoabd Aortic Aneurysm	3.8	5	2	0.0	0	0	0.1	0	0	0.0	0	0	
	Rep Femoral Aneurysm	3.8	3	3	0.0	0	0	0.0	0	0	0.7	1	0	
	Rep Popliteal Aneurysm	2.3	2	2	0.0	0	0	0.0	0	0	0.1	0	0	
	Rep Other Aneurysm - Def Cat Credit	0.9	1	1	0.0	0	0	0.0	0	0	0.0	0	0	
	Rep Other Aneurysm	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
	Subtotal - Aneurysm Repair		88.2	29	86	0.6	2	0	0.7	2	0	20.8	23	12
	Cerebrovascular	Carotid Endarterectomy	45.5	19	42	0.5	2	0	0.2	1	0	0.6	1	0
Reop Carotid Surg (Sec Proc Only)		0.0	0	0	0.0	0	0	0.0	0	0	0.7	1	0	
Transcath Place Carotid Artery Stent		12.2	9	10	0.1	0	0	0.2	1	0	0.3	1	0	
Excise Carotid Body Tumor		0.7	1	0	0.0	0	0	0.0	0	0	0.0	0	0	
Vert Bypass or Reimplant/transpos		0.3	1	0	0.0	0	0	0.0	0	0	0.0	0	0	
Direct Rep Aortic Arch Branches		0.6	1	0	0.0	0	0	0.0	0	0	0.1	1	0	
Translum Balloon Angio - Brachioceph		1.5	2	1	0.0	0	0	0.0	0	0	1.0	3	0	
Translum Atherectomy - Brachiocephalic		0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
Transcat Place of Intrav Stent, Noncor.		1.1	2	0	0.0	0	0	0.0	0	0	0.0	0	0	
Cervical Bypass Aortic Arch Branches		5.2	4	4	0.0	0	0	0.0	0	0	1.3	2	1	
Embolect/thrombec by Neck/Thor Incis		0.3	1	0	0.0	0	0	0.0	0	0	0.1	0	0	
Other Major Cerebrovas - Def Cat Cred		0.6	1	0	0.0	0	0	0.0	0	0	0.1	0	0	
Subtotal - Cerebrovascular			68.0	23	63	0.5	2	0	0.5	1	0	4.3	5	3

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[PAGE 2]

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		Surgeon Fellow			Teaching Assistant			First Assistant			Secondary Procedures		
		Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res AVE	Natl Res STD	Natl Res MED	Natl Res AVE	Natl Res STD	Natl Res MED
RRC Area	RRC Procedure												
Periph-Obstruct	Aorto-Ilio/femoral endarterectomy	3.7	5	2	0.0	0	0	0.0	0	0	1.0	2	0
	Aorto-ilio/femoral bypass, prosthetic	9.0	6	7	0.0	0	0	0.0	0	0	1.1	2	0
	Aorto-ilio/femoral bypass, vein	0.7	1	0	0.0	0	0	0.0	0	0	0.1	0	0
	Translum balloon angio aorta or iliac	8.4	7	7	0.0	0	0	0.0	0	0	13.0	15	8
	Translum atherectomy aorta or iliac	0.4	1	0	0.0	0	0	0.0	0	0	0.3	1	0
	Transcath place intravasc stent aorta	3.8	5	2	0.0	0	0	0.0	0	0	4.1	5	2
	Ilio-Iliac/femoral endarterectomy	3.3	3	2	0.0	0	0	0.0	0	0	1.5	2	1
	Excise infected graft, abdomen or chest	1.4	2	1	0.0	0	0	0.0	0	0	0.6	1	0
	Rep graft-enteric/aorto-enteric fistula	0.2	1	0	0.0	0	0	0.0	0	0	0.1	0	0
	Femoral, Profunda Endarterectomy	12.9	9	11	0.2	1	0	0.0	0	0	12.6	13	8
	Femoral-Popliteal Bypass, Vein	10.3	6	10	0.2	1	0	0.0	0	0	1.2	2	1
	Femoral-Popliteal Bypass, Prosth	7.5	5	7	0.1	0	0	0.0	0	0	1.5	2	1
	Translum balloon angio femoral-popl	20.7	17	18	0.1	0	0	0.1	0	0	18.8	16	14
	Translum atherectomy femoral-popliteal	5.5	8	3	0.0	0	0	0.0	0	0	1.6	3	1
	Endarterectomy, superf femoral, popul	2.3	3	1	0.0	0	0	0.0	0	0	2.2	3	1
	Infrapopliteal Bypass, Vein	15.5	7	14	0.1	1	0	0.0	0	0	1.3	2	1
	Infrapopliteal Bypass, Prosthetic	4.2	4	3	0.0	0	0	0.0	0	0	0.6	1	0
	Translum ballon angio, tibioperoneal	11.2	8	9	0.1	0	0	0.0	0	0	6.8	7	4
	Translum atherectomy, tibioperoneal	2.4	5	1	0.0	0	0	0.0	0	0	0.7	1	0
	Transcath place of intravas stent non-cor	29.1	22	24	0.1	0	0	0.1	0	0	27.4	29	21
	Excise infected graft, peripheral	2.7	3	2	0.0	0	0	0.0	0	0	1.4	2	1
	Revise Arterial Bypass	3.9	3	3	0.0	0	0	0.0	0	0	1.3	2	1
	Art embolectomy/thrombect by leg inc	7.5	5	7	0.1	0	0	0.0	0	0	8.3	8	6
	Graft Thrombectomy	0.9	1	0	0.0	0	0	0.0	0	0	1.1	2	0
	Adjunct vein cuff or AVF (Sec Only)	0.0	0	0	0.0	0	0	0.0	0	0	0.8	2	0
	Harvest Arm Vein (Sec Proc Only)	0.0	0	0	0.0	0	0	0.0	0	0	1.2	2	0
	Composite Leg Bypass Graft (Sec Only)	0.0	0	0	0.0	0	0	0.0	0	0	1.6	2	1
Re-Do Lower Extrem Bypass (Sec Only)	0.0	0	0	0.0	0	0	0.0	0	0	3.0	4	1	
Other Major Periph - Def Cat Cred	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
Subtotal - Periph Obstruct		167.3	52	160	1.1	3	0	0.4	1	0	115.2	80	103

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[PAGE 3]

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RRC Area	RRC Procedure												
Abdominal-Obstruct	Celiac/Sma Endarterect, Bypass	3.6	3	3	0.0	0	0	0.0	0	0	1.3	3	0
	Renal Endarterectomy, Bypass	0.9	1	1	0.0	0	0	0.0	0	0	1.2	3	0
	Embolectomy/thrombect, ren	1.0	1	1	0.0	0	0	0.0	0	0	0.2	1	0
	Translum balloon angio, renal	4.1	5	3	0.0	0	0	0.0	0	0	3.0	5	1
	Translum atherectomy, renal	0.1	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Transcat place of stent, ren art	7.2	6	5	0.0	0	0	0.0	0	0	8.5	14	3
	Subtotal - Abdominal Obstruct	16.9	10	16	0.1	0	0	0.1	1	0	14.2	19	7
	Upper Extremity	Open brachial artery exposure	0.4	1	0	0.0	0	0	0.0	0	0	2.9	7
Arm Bypass,Endarterectomy,Rep		2.8	2	2	0.0	0	0	0.0	0	0	0.3	1	0
Transcat place of intra stent noncoro		3.0	3	2	0.0	0	0	0.0	0	0	1.1	2	0
Thoracic Outlet Decomp Proc		4.7	6	3	0.0	0	0	0.1	1	0	0.5	2	0
Embolect/thrombect, by arm inc		3.0	2	3	0.0	0	0	0.0	0	0	1.4	2	1
Subtotal - Upper Extremity		13.9	8	13	0.1	0	0	0.1	1	0	6.2	9	3
Extra-Anatomic	Axillo-Femoral Bypass	3.9	3	4	0.0	0	0	0.0	0	0	0.6	1	0
	Axillo-Popliteal-Tibial Bypass	0.2	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Femoral-Femoral Bypass	5.5	3	5	0.1	0	0	0.0	0	0	2.2	2	2
	Subtotal - Extra-Anatomic	9.6	5	9	0.1	0	0	0.0	0	0	2.8	3	2
Thromb/Mech Thromb	Translum mech thrombect	4.7	6	3	0.0	0	0	0.0	0	0	1.9	3	1
	Thrombolysis, transart, transcat	7.4	7	6	0.0	0	0	0.0	0	0	2.4	3	1
	Exchange of thrombolysis cath	1.6	3	0	0.0	0	0	0.0	0	0	0.8	2	0
	Subtotal - Thrombol/Mech Thrombect	13.7	12	11	0.0	0	0	0.0	0	0	5.1	6	3

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[PAGE 4]

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RRC Area	RRC Procedure												
Misc Endovasc Thera	Endo place iliac art occ dev(Sec Only)	0.0	0	0	0.0	0	0	0.0	0	0	1.5	3	1
	Transcath thera, infusion non thromb	0.1	0	0	0.0	0	0	0.0	0	0	0.4	1	0
	Transcath retr of intravasc foreign	2.0	4	1	0.0	0	0	0.0	0	0	1.4	5	0
	Transcath art occl or embolization	6.2	7	4	0.0	0	0	0.0	0	0	3.8	5	2
	Transcath place of wireless sensor	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Pressure meas from wireless sensor	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - Misc Endovas Therap	8.3	9	6	0.0	0	0	0.0	0	0	7.2	9	4
Trauma	Repair Thoracic Vessels	0.6	1	0	0.0	0	0	0.0	0	0	0.1	0	0
	Repair Neck Vessels	0.7	1	0	0.0	0	0	0.0	0	0	0.1	0	0
	Repair Abdominal Vessels	2.7	3	2	0.0	0	0	0.0	0	0	0.3	1	0
	Repair Peripheral Vessels	7.2	5	6	0.0	0	0	0.0	0	0	1.8	3	1
	Fasciotomy	2.0	2	1	0.1	0	0	0.0	0	0	3.9	4	3
	Subtotal - Trauma	13.2	8	12	0.1	0	0	0.0	0	0	6.2	7	4
Total Major	Total Major	399.3	102	393	2.7	7	0	2.0	4	0	182.1	125	156
Venous	Portal-Systemic Shunt	0.1	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Operation For Varicose Veins	4.8	6	3	0.1	1	0	0.0	0	0	5.8	9	3
	Sclerotherapy, Periph Vein	1.4	10	0	0.0	0	0	0.0	0	0	0.2	1	0
	Embolectomy/Thrombectomy, venous	0.5	1	0	0.0	0	0	0.0	0	0	0.4	1	0
	Endoluminal ablation	13.9	16	10	0.1	1	0	0.0	0	0	1.3	3	0
	Operations For Venous Ulceration	0.2	1	0	0.0	0	0	0.0	0	0	0.1	0	0
	Venous Reconstruction	1.6	2	1	0.0	0	0	0.0	0	0	0.2	0	0
	Translum balloon angio, venous	15.9	16	10	0.0	0	0	0.0	0	0	5.8	7	3
	Translum mech thrombect, venous	2.1	3	1	0.0	0	0	0.0	0	0	0.7	1	0
	Thrombolysis, transven, transcat	2.6	3	2	0.0	0	0	0.0	0	0	0.8	1	0
	Exch of thromb cath (Sec Only)	0.0	0	0	0.0	0	0	0.0	0	0	0.4	1	0
	Interruption of IVC	10.2	10	8	0.2	1	0	0.0	0	0	2.1	5	0
	Repair A-V Malformation	0.2	1	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - Venous	53.4	30	50	0.5	1	0	0.1	0	0	17.7	16	13

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Report Date: September 10, 2013

[PAGE 5]

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RRC Area	RRC Procedure												
Endovas-Diag	Arteriography	80.6	35	81	0.4	1	0	0.2	1	0	236.7	181	198
	Venography	15.6	14	11	0.1	0	0	0.0	0	0	25.3	28	18
	Angioscopy	0.0	0	0	0.0	0	0	0.0	0	0	0.3	2	0
	Intravascular Ultrasound	1.9	4	0	0.0	0	0	0.0	0	0	10.5	24	2
	Subtotal - Endo Diagnostic	98.1	41	103	0.5	2	0	0.2	1	0	272.9	205	232
Misc Vascular	Exploration of artery	3.1	4	2	0.0	0	0	0.0	0	0	24.4	35	7
	Postop exp bleed, Thromb Infect	2.4	4	1	0.0	0	0	0.0	0	0	0.8	2	0
	Major Vascular Ligation	3.3	4	2	0.0	0	0	0.0	0	0	1.2	2	0
	Inject pseudoaneurysm	1.0	2	0	0.0	0	0	0.0	0	0	0.1	0	0
	Spine Exposure	2.8	6	0	0.0	0	0	0.0	0	0	0.7	3	0
	Sympathectomy	0.2	1	0	0.0	0	0	0.0	0	0	0.0	0	0
	Lymphatic Procedure	0.1	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Other misc vascular proc	1.9	8	0	0.0	0	0	0.0	0	0	0.4	1	0
	Subtotal - Misc Vascular	14.7	13	12	0.1	0	0	0.1	0	0	27.7	36	12
Vascular Access	A-V Fistula	26.5	23	24	0.6	2	0	0.0	0	0	0.7	2	0
	A-V Graft	8.1	8	6	0.1	0	0	0.0	0	0	0.5	1	0
	Percutaneous-Other Access	3.2	9	0	0.0	0	0	0.0	0	0	0.6	1	0
	Revision, A-V Access	11.0	12	7	0.1	0	0	0.0	0	0	2.6	4	1
	Subtotal - Vascular Access	48.9	39	41	0.9	3	0	0.1	0	0	4.4	6	2
Amputations	Amputation, Digit	3.8	5	2	0.2	1	0	0.0	0	0	1.1	2	0
	Amputation, Transmetatarsal	3.5	4	2	0.1	0	0	0.0	0	0	0.6	1	0
	Amputation, Below Knee	8.5	7	7	0.5	1	0	0.0	0	0	0.3	1	0
	Amputation, Above Knee	7.8	6	6	0.5	1	0	0.0	0	0	0.7	1	0
	Amputation, Upper Extremity	0.1	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Amputation Closure, Revision	1.0	2	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - Amputations	24.7	19	19	1.4	3	0	0.0	0	0	2.7	3	2
Total Minor	Total Minor	239.9	84	229	3.4	7	1	0.5	1	0	325.3	233	285
Total Operations	TOTAL	784.0	261	710	6.3	13	2	2.7	6	0	507.4	330	468

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[PAGE 6]

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RRC Area	RRC Procedure												
Imaging / Diagnostic Studies	Carotid duplex ultrasound	29.7	47	0	0.1	1	0	0.0	0	0	0.0	0	0
	Peripheral arterial physiologic testing	28.2	51	0	0.0	0	0	0.0	0	0	0.0	0	0
	Peripheral arterial duplex ultrasound	27.9	48	0	0.1	1	0	0.0	0	0	0.0	0	0
	Venous duplex ultrasound	41.9	73	0	0.1	1	0	0.1	1	0	0.0	0	0
	Visceral vascular ultrasound	14.7	28	0	0.0	0	0	0.0	0	0	0.0	0	0
	Transcranial doppler	2.4	13	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - Imaging/Diag	144.8	222	1	0.3	3	0	0.2	2	0	0.0	0	0

VASCULAR SURGERY: NATIONAL PROGRAM STATISTICS REPORT (Benchmarks Table)

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[PAGE 7] Number of Programs in the Nation: 91 Number of Residents in the Nation: 121										
	Surgeon Fellow					Secondary Procedures				
	Prog Percentiles					Prog Percentiles				
	10	30	50	70	90	10	30	50	70	90
RRC Area										
Aneurysm-Repair	51	68	91	101	122	2	8	12	25	55
Cerebrovascular	45	54	63	76	101	0	2	3	5	9
Periph-Obstruct	113	144	158	187	237	41	71	102	131	220
Abdominal-Obstruct	6	9	16	20	30	1	3	7	14	33
Upper Extremity	5	9	13	16	21	0	2	3	6	14
Extra-Anatomic	5	7	9	11	16	0	1	2	4	6
Thromb/Mech Thromb	2	6	11	18	30	0	2	4	7	12
Misc Endovasc Thera	1	3	6	9	22	1	2	4	8	16
Trauma	6	9	14	18	24	1	3	5	8	13
Total Major	287	346	390	453	542	61	117	156	216	346
Venous	23	36	50	67	89	4	9	14	21	37
Endovas-Diag	40	71	104	113	137	65	132	245	344	508
Misc Vascular	3	7	12	19	31	0	3	14	38	71
Vascular Access	5	21	41	57	98	0	1	2	4	12
Amputations	6	14	19	29	49	0	1	2	3	7
Total Minor	146	194	229	261	327	86	186	290	434	585
Total Operations	493	622	721	861	1,126	159	302	458	614	850
Imaging / Diagnostic Studies	0	0	1	131	505	0	0	0	0	0