



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 2011-2012
Residency Review Committee for Vascular Surgery
Report Date: October 22, 2012

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Number of Programs in the Nation: 94 Number of Residents in the Nation: 124

		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	11.7	7	11	0.0	0	0	0.1	0	0	0.5	1	0	
	Endovas Rep Abd Aort/Iliac Aneur	46.1	18	43	0.2	1	0	0.4	1	0	13.1	19	5	
	Endovas Rep of Iliac Artery	2.4	3	2	0.0	0	0	0.0	0	0	0.4	1	0	
	Rep Suprarenal Aortic Aneurysm	3.4	5	1	0.0	0	0	0.0	0	0	0.1	0	0	
	Rep Thoracic Aortic Aneurysm	0.8	2	0	0.0	0	0	0.0	0	0	0.1	0	0	
	Endovas Rep Thora Aortic Aneurysm	13.4	12	11	0.1	0	0	0.2	1	0	2.4	4	1	
	Rep Thoracoabd Aortic Aneurysm	3.9	6	2	0.0	0	0	0.1	0	0	0.1	0	0	
	Rep Femoral Aneurysm	3.9	3	4	0.0	0	0	0.0	0	0	0.6	2	0	
	Rep Popliteal Aneurysm	2.4	2	2	0.0	0	0	0.0	0	0	0.1	0	0	
	Rep Other Aneurysm - Def Cat Credit	0.9	1	0	0.0	0	0	0.0	0	0	0.1	0	0	
	Rep Other Aneurysm	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
	Subtotal - Aneurysm Repair		91.7	35	87	0.3	1	0	0.9	3	0	17.6	23	9
	Cerebrovascular	Carotid Endarterectomy	48.9	19	45	0.3	1	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	0.9	2	0	
Transcath Place Carotid Artery Stent		12.8	11	10	0.0	0	0	0.3	1	0	0.3	1	0	
Excise Carotid Body Tumor		1.0	3	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		0.8	1	0	0.0	0	0	0.0	0	0	0.1	0	0	
Translum Balloon Angio - Brachioceph		1.5	2	1	0.0	0	0	0.0	0	0	0.9	2	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.		0.7	1	0	0.0	0	0	0.0	0	0	0.1	0	0	
Cervical Bypass Aortic Arch Branches		5.3	4	4	0.0	0	0	0.0	0	0	1.4	2	1	
Embolect/thrombec by Neck/Thor Incis		0.2	0	0	0.0	0	0	0.0	0	0	0.0	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			72.1	25	68	0.4	1	0	0.5	1	0	4.4	4	3

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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	3.9	4	2	0.1	1	0	0.0	0	0	1.5	3	0
	Aorto-ilio/femoral bypass, prosthetic	9.6	7	8	0.0	0	0	0.0	0	0	0.8	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	6	0.0	0	0	0.0	0	0	14.0	26	9
	Translum atherectomy aorta or iliac	0.3	1	0	0.0	0	0	0.0	0	0	0.3	1	0
	Transcath place intravasc stent aorta	3.1	5	2	0.0	0	0	0.0	0	0	2.9	8	1
	Ilio-Iliac/femoral endarterectomy	3.9	4	2	0.0	0	0	0.0	0	0	1.5	3	1
	Excise infected graft, abdomen or chest	1.2	2	1	0.0	0	0	0.0	0	0	0.5	1	0
	Rep graft-enteric/aorto-enteric fistula	0.2	0	0	0.0	0	0	0.0	0	0	0.1	0	0
	Femoral, Profunda Endarterectomy	12.1	7	11	0.1	1	0	0.0	0	0	10.9	14	6
	Femoral-Popliteal Bypass, Vein	10.6	7	9	0.2	1	0	0.0	0	0	0.9	1	0
	Femoral-Popliteal Bypass, Prosth	8.8	7	8	0.1	1	0	0.0	0	0	1.4	2	1
	Translum balloon angio femoral-popl	18.9	13	15	0.1	1	0	0.0	0	0	20.8	21	16
	Translum atherectomy femoral-popliteal	6.0	9	3	0.1	0	0	0.0	0	0	2.1	4	1
	Endarterectomy, superf femoral, popl	2.0	2	1	0.0	0	0	0.0	0	0	1.6	3	1
	Infrapopliteal Bypass, Vein	17.2	11	15	0.1	1	0	0.1	1	0	1.0	2	0
	Infrapopliteal Bypass, Prosthetic	4.2	4	3	0.1	0	0	0.0	0	0	0.4	1	0
	Translum ballon angio, tibioperoneal	12.4	10	10	0.0	0	0	0.0	0	0	6.1	6	4
	Translum atherectomy, tibioperoneal	2.5	4	1	0.0	0	0	0.0	0	0	0.9	2	0
	Transcath place of intravas stent non-cor	33.4	25	29	0.3	3	0	0.1	0	0	30.3	30	20
	Excise infected graft, peripheral	2.8	3	2	0.1	0	0	0.0	0	0	1.2	2	1
	Revise Arterial Bypass	4.3	3	4	0.0	0	0	0.0	0	0	1.2	2	0
	Art embolectomy/thrombect by leg inc	7.2	5	6	0.1	0	0	0.0	0	0	7.6	7	6
	Graft Thrombectomy	1.1	1	1	0.0	0	0	0.0	0	0	1.6	2	1
	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	1.3	3	0
Composite Leg Bypass Graft (Sec Only)	0.0	0	0	0.0	0	0	0.0	0	0	1.4	2	1	
Re-Do Lower Extrem Bypass (Sec Only)	0.0	0	0	0.0	0	0	0.0	0	0	4.3	6	2	
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		174.7	55	163	1.5	8	0	0.5	2	0	117.5	79	101

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RRC Area	RRC Procedure												
Abdominal-Obstruct	Celiac/Sma Endarterect, Bypass	3.8	3	3	0.0	0	0	0.0	0	0	0.9	2	0
	Renal Endarterectomy, Bypass	0.9	1	1	0.0	0	0	0.0	0	0	1.5	3	0
	Embolectomy/thrombect, ren	0.9	1	1	0.0	0	0	0.0	0	0	0.2	0	0
	Translum balloon angio, renal	3.8	4	2	0.0	0	0	0.0	0	0	2.8	4	1
	Translum atherectomy, renal	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Transcat place of stent, ren art	6.8	6	5	0.0	0	0	0.0	0	0	6.8	14	2
	Subtotal - Abdominal Obstruct	16.2	9	15	0.1	1	0	0.1	0	0	12.1	17	6
Upper Extremity	Open brachial artery exposure	0.2	1	0	0.0	0	0	0.0	0	0	1.6	3	0
	Arm Bypass,Endarterectomy,Rep	2.3	2	2	0.0	0	0	0.0	0	0	0.2	0	0
	Transcat place of intra stent noncoro	3.2	4	2	0.0	0	0	0.0	0	0	1.1	2	0
	Thoracic Outlet Decomp Proc	3.7	5	2	0.0	0	0	0.2	1	0	0.4	1	0
	Embolect/thrombect, by arm inc	2.9	3	2	0.1	0	0	0.0	0	0	1.5	2	1
	Subtotal - Upper Extremity	12.3	8	11	0.1	0	0	0.2	1	0	4.7	6	3
Extra-Anatomic	Axillo-Femoral Bypass	4.0	3	4	0.1	0	0	0.1	0	0	0.6	1	0
	Axillo-Popliteal-Tibial Bypass	0.2	1	0	0.0	0	0	0.0	0	0	0.0	0	0
	Femoral-Femoral Bypass	6.1	4	5	0.1	1	0	0.0	0	0	2.5	3	2
	Subtotal - Extra-Anatomic	10.3	6	10	0.2	1	0	0.1	0	0	3.1	3	2
Thromb/Mech Thromb	Translum mech thrombect	4.1	5	3	0.0	0	0	0.0	0	0	2.2	4	1
	Thrombolysis, transart, transcat	7.5	8	6	0.0	0	0	0.1	0	0	2.3	3	1
	Exchange of thrombolysis cath	1.3	2	0	0.0	0	0	0.0	0	0	0.6	2	0
	Subtotal - Thrombol/Mech Thrombect	12.8	12	10	0.1	0	0	0.1	0	0	5.1	7	3

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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	2	1
	Transcath thera, infusion non thromb	0.1	1	0	0.0	0	0	0.0	0	0	0.5	3	0
	Transcath retr of intravasc foreign	2.8	6	1	0.0	0	0	0.0	0	0	1.3	3	0
	Transcath art occl or embolization	5.7	6	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	0.2	1	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	8.6	8	7	0.0	0	0	0.0	0	0	7.3	8	4
Trauma	Repair Thoracic Vessels	0.5	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	0.0	0	0
	Repair Abdominal Vessels	2.1	3	1	0.0	0	0	0.0	0	0	0.3	1	0
	Repair Peripheral Vessels	7.4	5	6	0.0	0	0	0.0	0	0	1.7	5	0
	Fasciotomy	2.0	2	1	0.0	0	0	0.0	0	0	4.2	4	3
	Subtotal - Trauma	12.7	8	12	0.1	0	0	0.0	0	0	6.3	8	4
Total Major	Total Major	411.3	104	401	2.8	10	0	2.4	6	0	178.1	117	164
Venous	Portal-Systemic Shunt	0.2	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Operation For Varicose Veins	5.4	6	3	0.1	1	0	0.0	0	0	6.4	10	3
	Sclerotherapy, Periph Vein	0.7	2	0	0.0	0	0	0.0	0	0	0.1	0	0
	Embolectomy/Thrombectomy, venous	0.6	1	0	0.0	0	0	0.0	0	0	0.3	1	0
	Endoluminal ablation	14.3	17	10	0.2	1	0	0.0	0	0	1.3	3	0
	Operations For Venous Ulceration	0.2	0	0	0.0	0	0	0.0	0	0	0.1	0	0
	Venous Reconstruction	1.4	2	1	0.0	0	0	0.0	0	0	0.1	0	0
	Translum balloon angio, venous	17.7	26	10	0.1	1	0	0.0	0	0	6.1	9	3
	Translum mech thrombect, venous	2.5	3	1	0.0	0	0	0.0	0	0	0.9	3	0
	Thrombolysis, transven, transcat	2.6	4	1	0.0	0	0	0.0	0	0	1.0	2	0
	Exch of thromb cath (Sec Only)	0.0	0	0	0.0	0	0	0.0	0	0	0.3	1	0
	Interruption of IVC	13.6	13	10	0.3	1	0	0.0	0	0	1.8	3	1
	Repair A-V Malformation	0.2	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - Venous	59.3	43	47	0.7	2	0	0.1	1	0	18.4	17	13

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RRC Area	RRC Procedure												
Endovas-Diag	Arteriography	90.0	46	86	0.4	2	0	0.1	0	0	270.7	218	227
	Venography	13.2	13	9	0.1	1	0	0.0	0	0	21.8	27	15
	Angioscopy	1.5	16	0	0.0	0	0	0.0	0	0	3.3	29	0
	Intravascular Ultrasound	1.5	3	0	0.0	0	0	0.0	0	0	14.0	44	1
	Subtotal - Endo Diagnostic	106.2	50	104	0.5	2	0	0.2	1	0	309.7	258	246
Misc Vascular	Exploration of artery	2.9	4	2	0.0	0	0	0.0	0	0	19.5	31	4
	Postop exp bleed, Thromb Infect	2.3	4	1	0.0	0	0	0.0	0	0	0.7	1	0
	Major Vascular Ligation	3.4	4	2	0.0	0	0	0.0	0	0	1.1	2	0
	Inject pseudoaneurysm	1.5	2	0	0.0	0	0	0.0	0	0	0.1	0	0
	Spine Exposure	2.3	4	0	0.0	0	0	0.0	0	0	0.7	2	0
	Sympathectomy	0.2	1	0	0.0	0	0	0.0	0	0	0.0	0	0
	Lymphatic Procedure	0.2	1	0	0.0	0	0	0.0	0	0	0.0	0	0
	Other misc vascular proc	0.9	2	0	0.0	0	0	0.0	0	0	0.4	1	0
	Subtotal - Misc Vascular	13.7	10	11	0.2	1	0	0.1	0	0	22.6	33	6
Vascular Access	A-V Fistula	25.2	22	22	0.4	1	0	0.0	0	0	1.0	3	0
	A-V Graft	9.5	11	6	0.1	1	0	0.0	0	0	0.7	2	0
	Percutaneous-Other Access	3.1	7	0	0.0	0	0	0.0	0	0	1.1	3	0
	Revision, A-V Access	12.2	15	8	0.2	1	0	0.0	0	0	3.9	9	1
	Subtotal - Vascular Access	50.0	43	41	0.7	2	0	0.0	0	0	6.7	14	2
Amputations	Amputation, Digit	3.9	6	2	0.2	1	0	0.0	0	0	1.0	2	0
	Amputation, Transmetatarsal	3.7	5	2	0.2	1	0	0.0	0	0	0.5	1	0
	Amputation, Below Knee	8.4	7	8	0.6	2	0	0.0	0	0	0.4	1	0
	Amputation, Above Knee	6.5	6	5	0.5	1	0	0.1	1	0	0.6	1	0
	Amputation, Upper Extremity	0.2	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Amputation Closure, Revision	0.9	1	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - Amputations	23.5	18	20	1.6	3	0	0.1	1	0	2.6	3	1
Total Minor	Total Minor	252.6	114	229	3.6	8	0	0.5	2	0	360.1	287	295
Total Operations	TOTAL	761.6	265	694	6.5	17	1	2.9	7	0	562.6	392	485

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RRC Area	RRC Procedure												
Imaging / Diagnostic Studies	Carotid duplex ultrasound	20.0	42	0	0.0	0	0	0.0	0	0	2.7	12	0
	Peripheral arterial physiologic testing	22.4	53	0	0.0	0	0	0.0	0	0	5.8	20	0
	Peripheral arterial duplex ultrasound	18.8	42	0	0.0	0	0	0.0	0	0	8.8	35	0
	Venous duplex ultrasound	22.2	52	0	0.0	0	0	0.0	0	0	5.8	21	0
	Visceral vascular ultrasound	12.1	29	0	0.0	0	0	0.0	0	0	1.2	5	0
	Transcranial doppler	2.1	14	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - Imaging/Diag	97.6	195	0	0.0	0	0	0.0	0	0	24.4	75	0

VASCULAR SURGERY: NATIONAL PROGRAM STATISTICS REPORT (Benchmarks Table)

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	Surgeon Fellow					Secondary Procedures				
	Prog Percentiles					Prog Percentiles				
	10	30	50	70	90	10	30	50	70	90
RRC Area										
Aneurysm-Repair	50	79	87	104	131	1	5	11	18	45
Cerebrovascular	46	55	68	81	108	0	2	3	6	10
Periph-Obstruct	115	139	165	193	247	44	66	101	147	209
Abdominal-Obstruct	7	10	15	19	29	1	2	6	12	33
Upper Extremity	5	8	11	15	22	0	1	3	5	12
Extra-Anatomic	4	7	10	12	19	0	1	3	4	6
Thromb/Mech Thromb	2	7	10	16	25	0	2	3	7	11
Misc Endovasc Thera	1	4	6	11	23	1	3	5	9	16
Trauma	5	9	13	17	22	0	3	5	8	16
Total Major	287	360	404	459	569	73	110	167	229	328
Venous	18	33	48	67	105	3	7	13	21	46
Endovas-Diag	45	76	105	116	178	94	171	240	341	630
Misc Vascular	5	8	12	18	25	0	3	9	27	62
Vascular Access	5	23	42	58	107	0	1	2	5	13
Amputations	5	11	21	28	47	0	1	2	3	8
Total Minor	137	193	226	279	407	115	202	292	400	741
Total Operations	489	591	692	853	1,173	231	356	493	638	1,108
Imaging / Diagnostic Studies	0	0	0	1	445	0	0	0	2	84