



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 is broken out by role (surgeon, assistant, etc).
 - B. Descriptive statistics have been carefully chosen to provide the most useful information for judging performance at the 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 2010-2011
Residency Review Committee for Vascular Surgery
Report Date: September 9, 2011

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Number of Programs in the Nation: 96 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	3.4	3	3	0.0	0	0	0.1	0	0	0.1	1	0	
	Open Rep Infrarenal A-I Aneur, Elect	11.8	5	11	0.1	0	0	0.1	0	0	0.5	1	0	
	Endovas Rep Abd Aort/Iliac Aneur	44.5	18	43	0.2	1	0	0.6	3	0	12.9	16	6	
	Endovas Rep of Iliac Artery	1.9	2	1	0.0	0	0	0.0	0	0	0.5	1	0	
	Rep Suprarenal Aortic Aneurysm	3.1	5	1	0.0	0	0	0.0	0	0	0.1	0	0	
	Rep Thoracic Aortic Aneurysm	0.6	2	0	0.0	0	0	0.0	0	0	0.0	0	0	
	Endovas Rep Thora Aortic Aneurysm	12.4	9	11	0.0	0	0	0.1	0	0	2.0	3	1	
	Rep Thoracoabd Aortic Aneurysm	3.4	5	2	0.0	0	0	0.1	1	0	0.0	0	0	
	Rep Femoral Aneurysm	3.8	3	3	0.0	0	0	0.0	0	0	0.6	1	0	
	Rep Popliteal Aneurysm	2.5	2	2	0.0	0	0	0.0	0	0	0.1	0	0	
	Rep Other Aneurysm - Def Cat Credit	1.1	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		88.5	31	86	0.4	1	0	1.1	4	0	16.9	19	11
	Cerebrovascular	Carotid Endarterectomy	49.3	18	45	0.4	1	0	0.1	0	0	0.7	1	0
Reop Carotid Surg (Sec Only)		0.0	0	0	0.0	0	0	0.0	0	0	0.6	1	0	
Transcath Place Carotid Artery Stent		13.9	10	12	0.0	0	0	0.3	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		0.5	1	0	0.0	0	0	0.0	0	0	0.2	1	0	
Translum Balloon Angio - Brachioceph		1.5	2	1	0.0	0	0	0.0	0	0	1.3	4	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.		0.5	1	0	0.0	0	0	0.0	0	0	0.0	0	0	
Cervical Bypass Aortic Arch Branches		4.4	3	4	0.0	0	0	0.0	0	0	1.1	2	0	
Embolect/thrombec by Neck/Thor Incis		0.2	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	0.0	0	0	
Other Cerebrovascular		0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
Subtotal - Cerebrovascular			71.9	24	69	0.4	1	0	0.5	1	0	4.4	5	3

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Number of Programs in the Nation: 96 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												
Periph-Obstruct	Aorto-Ilio/femoral endarterectomy	3.1	4	2	0.1	0	0	0.0	0	0	1.3	2	0
	Aorto-ilio/femoral bypass, prosthetic	8.8	6	8	0.0	0	0	0.1	0	0	0.8	1	0
	Aorto-ilio/femoral bypass, vein	0.7	1	0	0.0	0	0	0.0	0	0	0.2	0	0
	Translum balloon angio aorta or iliac	8.3	10	6	0.1	0	0	0.0	0	0	12.9	15	8
	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	2.4	3	2	0.0	0	0	0.0	0	0	1.6	3	1
	Ilio-Iliac/femoral endarterectomy	3.6	3	3	0.0	0	0	0.0	0	0	1.4	3	0
	Excise infected graft, abdomen or chest	1.0	1	1	0.0	0	0	0.0	0	0	0.5	2	0
	Rep graft-enteric/aorto-enteric fistula	0.2	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Femoral, Profunda Endarterectomy	10.8	6	10	0.2	1	0	0.0	0	0	10.2	11	8
	Femoral-Popliteal Bypass, Vein	10.3	6	10	0.1	0	0	0.0	0	0	1.0	2	0
	Femoral-Popliteal Bypass, Prosth	8.6	6	8	0.1	0	0	0.0	0	0	1.6	2	1
	Translum balloon angio femoral-popl	18.8	13	16	0.1	0	0	0.0	0	0	19.2	17	18
	Translum atherectomy femoral-popliteal	4.7	7	2	0.0	0	0	0.0	0	0	2.0	5	1
	Endarterectomy, superf femoral, popl	2.1	2	1	0.0	0	0	0.0	0	0	1.8	3	1
	Infrapopliteal Bypass, Vein	15.5	9	14	0.1	0	0	0.1	0	0	1.1	2	0
	Infrapopliteal Bypass, Prosthetic	4.2	4	3	0.0	0	0	0.0	0	0	0.4	1	0
	Translum ballon angio, tibioperoneal	11.2	9	9	0.0	0	0	0.0	0	0	5.5	6	3
	Translum atherectomy, tibioperoneal	2.2	4	1	0.0	0	0	0.0	0	0	0.6	2	0
	Transcath place of intravas stent non-cor	34.8	24	29	0.2	1	0	0.0	0	0	28.6	30	21
	Excise infected graft, peripheral	2.9	3	2	0.1	0	0	0.0	0	0	1.0	2	1
	Revise Arterial Bypass	4.1	4	3	0.0	0	0	0.0	0	0	1.3	2	1
	Art embolectomy/thrombect by leg inc	6.1	5	5	0.2	1	0	0.0	0	0	7.2	7	6
	Graft Thrombectomy	1.0	1	1	0.0	0	0	0.0	0	0	1.4	2	1
	Adjunct vein cuff or AVF (Sec Only)	0.0	0	0	0.0	0	0	0.0	0	0	0.9	2	0
	Harvest Arm Vein (Sec Proc Only)	0.0	0	0	0.0	0	0	0.0	0	0	1.4	3	0
	Composite Leg Bypass Graft (Sec Only)	0.0	0	0	0.0	0	0	0.0	0	0	1.8	2	1
Re-Do Lower Extrem Bypass (Sec Only)	0.0	0	0	0.0	0	0	0.0	0	0	3.1	4	1	
Other Major Periph - Def Cat Cred	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
Other Major Periph	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
Subtotal - Periph Obstruct		165.7	52	160	1.3	4	0	0.5	1	0	109.1	77	101

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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	0.6	1	0
	Renal Endarterectomy, Bypass	0.8	1	0	0.0	0	0	0.0	0	0	1.3	3	0
	Embolectomy/thrombect, ren	1.0	2	1	0.0	0	0	0.0	0	0	0.1	0	0
	Translum balloon angio, renal	3.9	4	2	0.0	0	0	0.0	0	0	2.3	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	6.6	7	5	0.0	0	0	0.0	0	0	5.0	10	2
	Other Abdominal	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - Abdominal Obstruct	16.0	10	14	0.0	0	0	0.1	0	0	9.3	13	5
Upper Extremity	Open brachial artery exposure	0.3	1	0	0.0	0	0	0.0	0	0	1.4	3	0
	Arm Bypass,Endarterectomy,Rep	2.2	2	2	0.0	0	0	0.0	0	0	0.1	0	0
	Transcat place of intra stent noncoro	3.2	3	2	0.0	0	0	0.0	0	0	1.8	9	0
	Thoracic Outlet Decomp Proc	3.9	5	2	0.2	2	0	0.0	0	0	0.4	1	0
	Embolect/thrombect, by arm inc	2.5	3	2	0.1	0	0	0.0	0	0	1.2	2	1
	Other Upper Extremity	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - Upper Extremity	12.0	7	11	0.3	2	0	0.1	0	0	4.9	12	3
Extra-Anatomic	Axillo-Femoral Bypass	3.9	3	3	0.1	0	0	0.0	0	0	0.5	1	0
	Axillo-Popliteal-Tibial Bypass	0.1	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Femoral-Femoral Bypass	5.4	3	5	0.1	1	0	0.0	0	0	2.5	2	2
	Other Extra-Anatomic	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - Extra-Anatomic	9.4	5	9	0.2	1	0	0.0	0	0	3.0	3	2
Thromb/Mech Thromb	Translum mech thrombect	3.7	4	3	0.0	0	0	0.0	0	0	1.8	3	1
	Thrombolysis, transart, transcat	7.1	6	6	0.0	0	0	0.0	0	0	2.3	3	2
	Exchange of thrombolysis cath	1.2	3	0	0.0	0	0	0.0	0	0	0.7	2	0
	Subtotal - Thrombol/Mech Thrombect	11.9	11	10	0.0	0	0	0.0	0	0	4.8	6	3

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RRC Area	RRC Procedure												
Misc Endovasc Thera	Endo place iliac art occ dev(SecOnly)	0.0	0	0	0.0	0	0	0.0	0	0	1.4	2	1
	Transcath thera, infusion non thromb	0.1	1	0	0.0	0	0	0.0	0	0	0.5	2	0
	Transcath retr of intravasc foreign	2.6	5	1	0.0	0	0	0.0	0	0	1.6	5	0
	Transcath art occl or embolization	7.1	8	5	0.0	0	0	0.0	0	0	3.4	4	1
	Transcath place of wireless sensor	0.0	0	0	0.0	0	0	0.0	0	0	0.7	3	0
	Pressure meas from wireless sensor	0.0	0	0	0.0	0	0	0.0	0	0	0.2	2	0
	Subtotal - Misc Endovas Therap	9.9	11	6	0.0	0	0	0.0	0	0	7.8	9	5
Trauma	Repair Thoracic Vessels	0.4	1	0	0.0	0	0	0.0	0	0	0.1	1	0
	Repair Neck Vessels	0.6	1	0	0.0	0	0	0.0	0	0	0.1	0	0
	Repair Abdominal Vessels	2.2	2	1	0.1	0	0	0.0	0	0	0.2	1	0
	Repair Peripheral Vessels	7.6	6	7	0.1	0	0	0.0	0	0	2.7	8	1
	Fasciotomy	1.4	2	1	0.0	0	0	0.0	0	0	3.1	3	3
	Subtotal - Trauma	12.2	8	11	0.2	1	0	0.1	0	0	6.1	9	4
Total Major	Total Major	397.5	93	384	2.9	8	0	2.3	6	0	166.3	112	148
Venous	Portal-Systemic Shunt	0.1	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Operation For Varicose Veins	6.4	7	4	0.1	1	0	0.0	0	0	4.5	6	2
	Sclerotherapy, Periph Vein	1.0	4	0	0.0	0	0	0.0	0	0	0.2	1	0
	Embolectomy/Thrombectomy, venous	0.4	1	0	0.0	0	0	0.0	0	0	0.3	1	0
	Endoluminal ablation	11.2	12	7	0.1	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	0.0	0	0
	Venous Reconstruction	1.3	2	1	0.0	0	0	0.0	0	0	0.2	0	0
	Translum balloon angio, venous	17.2	18	14	0.1	0	0	0.0	0	0	5.7	10	2
	Translum mech thrombect, venous	2.1	3	1	0.0	0	0	0.0	0	0	0.8	1	0
	Thrombolysis, transven, transcat	1.9	3	1	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	0.3	1	0
	Interruption of IVC	17.0	18	12	0.4	1	0	0.1	0	0	2.2	5	1
	Repair A-V Malformation	0.1	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - Venous	58.9	33	52	0.7	2	0	0.2	1	0	16.2	16	12

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RRC Area	RRC Procedure												
Endovas-Diag	Arteriography	87.2	37	91	0.6	2	0	0.1	1	0	241.2	205	194
	Venography	15.7	15	11	0.1	0	0	0.0	0	0	26.0	33	16
	Angioscopy	0.3	2	0	0.0	0	0	0.0	0	0	2.3	18	0
	Intravascular Ultrasound	1.8	4	0	0.0	0	0	0.0	0	0	8.9	18	2
	Subtotal - Endo Diagnostic	105.0	41	108	0.7	2	0	0.2	1	0	278.4	226	229
Misc Vascular	Exploration of artery	2.3	3	1	0.0	0	0	0.0	0	0	18.0	27	3
	Postop exp bleed, Thromb Infect	2.6	4	1	0.1	0	0	0.0	0	0	1.2	3	0
	Major Vascular Ligation	3.3	3	3	0.1	0	0	0.0	0	0	1.0	2	0
	Inject pseudoaneurysm	1.5	4	0	0.0	0	0	0.0	0	0	0.0	0	0
	Spine Exposure	2.6	5	1	0.0	0	0	0.0	0	0	0.7	2	0
	Sympathectomy	0.1	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	0.8	2	0	0.0	0	0	0.0	0	0	0.5	2	0
	Subtotal - Misc Vascular	13.4	10	10	0.3	1	0	0.1	0	0	21.5	30	7
Vascular Access	A-V Fistula	23.2	23	20	0.6	2	0	0.0	0	0	0.9	3	0
	A-V Graft	7.9	9	6	0.1	1	0	0.0	0	0	0.6	2	0
	Percutaneous-Other Access	3.7	12	0	0.0	0	0	0.0	0	0	0.7	1	0
	Revision, A-V Access	10.0	15	7	0.1	0	0	0.0	0	0	2.8	5	1
	Subtotal - Vascular Access	44.7	47	35	0.9	3	0	0.1	0	0	4.9	8	2
Amputations	Amputation, Digit	3.5	4	2	0.3	1	0	0.0	0	0	1.0	2	0
	Amputation, Transmetatarsal	2.9	4	2	0.1	0	0	0.0	0	0	0.5	1	0
	Amputation, Below Knee	7.3	6	6	0.6	1	0	0.0	0	0	0.3	1	0
	Amputation, Above Knee	6.3	5	5	0.6	1	0	0.1	0	0	0.4	1	0
	Amputation, Upper Extremity	0.2	1	0	0.0	0	0	0.0	0	0	0.0	0	0
	Amputation Closure, Revision	0.5	1	0	0.1	0	0	0.0	0	0	0.1	0	0
	Subtotal - Amputations	20.7	15	18	1.7	4	0	0.1	1	0	2.2	3	1
Total Minor	Total Minor	242.8	85	235	4.3	10	0	0.6	2	0	323.2	254	274
Total Operations	TOTAL	640.3	133	631	7.2	17	1	2.9	6	0	489.6	346	431

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	49	69	87	102	132	1	4	12	20	43
Cerebrovascular	45	56	65	78	109	1	2	3	5	9
Periph-Obstruct	97	133	160	189	237	20	60	101	141	193
Abdominal-Obstruct	5	8	14	20	29	0	2	4	10	24
Upper Extremity	4	8	11	14	21	0	1	3	4	9
Extra-Anatomic	4	6	9	11	16	0	1	2	4	7
Thromb/Mech Thromb	2	6	9	14	22	0	2	4	5	12
Misc Endovasc Thera	2	3	6	11	27	0	2	5	9	20
Trauma	4	7	11	16	23	0	2	4	7	13
Total Major	275	338	379	452	516	31	93	146	212	300
Venous	26	39	51	72	102	2	6	12	20	31
Endovas-Diag	46	79	104	129	156	46	170	235	334	533
Misc Vascular	4	8	11	18	27	0	2	10	25	68
Vascular Access	2	19	34	54	84	0	1	2	6	12
Amputations	5	10	16	24	42	0	0	1	3	6
Total Minor	146	200	232	275	354	54	185	273	394	582
Total Operations	462	560	637	718	824	61	332	434	595	882