

Accreditation Council for

# Graduate Medical Education

## Vascular Surgery Case Logs

National Data Report

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- 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.

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		Su	rgeon Fell	ow	Teac	hing Assi	stant	Fir	st Assista	int	Second	dary Proc	edures
		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	Nat Res MED
RRC Area	RRC Procedure												
Aneurysm-Repair	Open Rep Infrarenal A-I Aneur, Rupt	2.7	2	2	0.0	0	0	0.0	0	0	0.0	0	0
	Open Rep Infrarenal A-I Aneur, Elect	8.6	5	7	0.0	0	0	0.1	0	0	0.2	1	0
	Endovas Rep Abd Aort/Iliac Aneur	46.6	19	44	0.2	1	0	0.4	3	0	14.2	17	7
	Endovas Rep of Iliac Artery	1.8	2	1	0.0	0	0	0.0	0	0	0.5	1	0
	Rep Suprarenal Aortic Aneurysm	2.4	4	1	0.0	0	0	0.0	0	0	0.1	0	0
	Rep Thoracic Aortic Aneurysm	0.6	1	0	0.0	0	0	0.0	0	0	0.0	0	0
	Endovas Rep Thora Aortic Aneurysm	14.1	10	12	0.0	0	0	0.1	0	0	2.6	3	1
	Rep Thoracoabd Aortic Aneurysm	3.2	4	2	0.0	0	0	0.0	0	0	0.0	0	0
	Rep Femoral Aneurysm	4.0	3	3	0.0	0	0	0.0	0	0	0.6	1	0
	Rep Popliteal Aneurysm	2.4	2	2	0.0	0	0	0.0	0	0	0.0	0	0
	Rep Other Aneurysm - Def Cat Credit	0.9	1	1	0.0	0	0	0.0	0	0	0.1	0	0
	Subtotal - Aneurysm Repair	87.3	31	83	0.3	1	0	0.6	3	0	18.4	19	11
Cerebrovascular	Carotid Endarterectomy	48.5	19	43	0.2	1	0	0.1	1	0	0.7	1	0
	Reop Carotid Surg (Sec Proc Only)	0.0	0	0	0.0	0	0	0.0	0	0	0.6	1	0
	Transcath Place Carotid Artery Stent	8.0	8	5	0.0	0	0	0.1	1	0	0.3	1	0
	Excise Carotid Body Tumor	0.8	1	1	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	0.1	0	0
	Direct Rep Aortic Arch Branches	0.5	1	0	0.0	0	0	0.0	0	0	0.2	0	0
	Translum Balloon Angio - Brachioceph	1.8	3	1	0.0	0	0	0.0	0	0	0.6	1	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.	1.6	2	1	0.0	0	0	0.0	0	0	0.2	1	0
	Cervical Bypass Aortic Arch Branches	5.3	4	5	0.0	0	0	0.0	0	0	1.5	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	1	0
	Subtotal - Cerebrovascular	67.5	24	62	0.3	1	0	0.3	1	0	4.4	4	4

		Su	geon Fell	low	Teac	hing Assi	stant	Fir	st Assista	int	Second	dary Proc	edures
		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	Nati Res MED
RRC Area	RRC Procedure												
Periph-Obstruct	Aorto-Ilio/femoral endarterectomy	4.2	5	2	0.0	0	0	0.0	0	0	1.7	3	0
	Aorto-ilio/femoral bypass, prosthetic	8.8	6	8	0.1	0	0	0.1	0	0	0.9	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	15.0	10	14	0.1	0	0	0.0	0	0	19.2	17	14
	Translum atherectomy aorta or iliac	0.3	1	0	0.0	0	0	0.0	0	0	0.2	1	0
	Transcath place intravasc stent aorta	6.1	6	4	0.0	0	0	0.0	0	0	5.2	10	2
	llio-lliac/femoral endarterectomy	3.4	4	2	0.0	0	0	0.0	0	0	1.4	2	1
	Excise infected graft, abdomen or chest	1.3	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	0.0	0	0
	Femoral, Profunda Endarterectomy	13.5	8	12	0.1	1	0	0.0	0	0	12.4	10	11
	Femoral-Popliteal Bypass, Vein	10.1	6	10	0.1	0	0	0.0	0	0	1.1	2	1
	Femoral-Popliteal Bypass, Prosth	7.2	5	6	0.1	0	0	0.0	0	0	1.7	2	1
	Translum balloon angio femoral-popl	27.7	20	22	0.1	0	0	0.0	0	0	23.3	22	17
	Translum atherectomy femoral-popliteal	5.2	7	2	0.0	0	0	0.0	0	0	2.3	5	1
	Endarterectomy, superf femoral, popl	2.3	3	2	0.0	0	0	0.0	0	0	2.5	3	1
	Infrapopliteal Bypass, Vein	15.9	9	15	0.1	0	0	0.0	0	0	1.4	3	1
	Infrapopliteal Bypass, Prosthetic	3.8	3	3	0.0	0	0	0.0	0	0	0.4	1	0
	Translum ballon angio, tibioperoneal	14.7	12	13	0.1	0	0	0.0	0	0	7.9	9	4
	Translum atherectomy, tibioperoneal	2.1	3	1	0.0	0	0	0.0	0	0	1.0	3	0
	Transcath place of intravas stent non-cor	15.5	18	11	0.0	0	0	0.0	0	0	13.7	15	10
	Excise infected graft, peripheral	3.1	3	3	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	8.6	6	7	0.0	0	0	0.1	0	0	6.5	6	5
	Graft Thrombectomy	1.5	2	1	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	1.1	3	0
	Harvest Arm Vein (Sec Proc Only)	0.0	0	0	0.0	0	0	0.0	0	0	1.3	2	0
	Composite Leg Bypass Graft (Sec Only)	0.0	0	0	0.0	0	0	0.0	0	0	1.2	2	0
	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
	Subtotal - Periph Obstruct	175.2	57	166	1.0	3	0	0.3	1	0	114.0	68	100

		Su	rgeon Fell	low	Teac	hing Assi	stant	Fir	st Assista	int	Second	dary Proce	edures
		Natl Res AVE	Natl Res STD	Natl Res MED									
RRC Area	RRC Procedure												
Abdominal-Obstruct	Celiac/Sma Endarterect, Bypass	3.8	3	3	0.0	0	0	0.0	0	0	1.2	3	0
	Renal Endarterectomy, Bypass	0.8	1	0	0.0	0	0	0.0	0	0	1.4	4	0
	Embolectomy/thrombect, ren	1.2	1	1	0.0	0	0	0.0	0	0	0.2	1	0
	Translum balloon angio, renal	4.1	4	3	0.0	0	0	0.0	0	0	2.8	4	2
	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	5.2	5	4	0.0	0	0	0.0	0	0	6.3	10	3
	Subtotal - Abdominal Obstruct	15.1	9	14	0.0	0	0	0.0	0	0	12.0	15	8
Upper Extremity	Open brachial artery exposure	0.5	1	0	0.0	0	0	0.0	0	0	2.6	5	1
	Arm Bypass, Endarterectomy, Rep	3.4	3	3	0.0	0	0	0.0	0	0	0.3	1	0
	Transcat place of intra stent noncoro	2.3	2	2	0.0	0	0	0.0	0	0	1.0	2	0
	Thoracic Outlet Decomp Proc	5.4	7	3	0.0	0	0	0.0	0	0	0.4	2	0
	Embolect/thrombect, by arm inc	3.0	2	3	0.1	0	0	0.0	0	0	1.4	2	1
	Subtotal - Upper Extremity	14.6	9	13	0.1	0	0	0.0	0	0	5.7	6	4
Extra-Anatomic	Axillo-Femoral Bypass	4.1	3	3	0.1	0	0	0.0	0	0	0.7	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	5.4	4	5	0.1	1	0	0.0	0	0	2.6	3	2
	Subtotal - Extra-Anatomic	9.7	6	9	0.2	1	0	0.0	0	0	3.3	3	3
Thromb/Mech Thromb	Translum mech thrombect	4.9	6	3	0.0	0	0	0.0	0	0	2.0	2	1
	Thrombolysis, transart, transcat	5.9	6	4	0.0	0	0	0.0	0	0	2.1	3	1
	Exchange of thrombolysis cath	2.0	4	1	0.0	0	0	0.0	0	0	1.0	2	0
	Subtotal - Thrombol/Mech Thrombect	12.8	11	10	0.0	0	0	0.0	0	0	5.1	6	3

		Su	rgeon Fell	ow	Teac	hing Assi	stant	Fir	st Assista	ant	Second	dary Proc	edures
		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	Nati Res MED
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	1.7	2	1
	Transcath thera, infusion non thromb	0.2	1	0	0.0	0	0	0.0	0	0	0.2	1	0
	Transcath retr of intravasc foreign	0.6	2	0	0.0	0	0	0.0	0	0	0.1	1	0
	Transcath art occl or embolization	5.2	6	3	0.0	0	0	0.0	0	0	3.5	4	2
	Transcath place of wireless sensor	0.0	0	0	0.0	0	0	0.0	0	0	0.1	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	6.1	6	4	0.0	0	0	0.0	0	0	5.7	5	4
Trauma	Repair Thoracic Vessels	0.6	1	0	0.0	0	0	0.0	0	0	0.1	0	0
	Repair Neck Vessels	0.6	1	0	0.0	0	0	0.0	0	0	0.1	0	0
	Repair Abdominal Vessels	3.0	4	2	0.0	0	0	0.0	0	0	0.2	0	0
	Repair Peripheral Vessels	8.0	6	7	0.0	0	0	0.0	0	0	2.4	7	1
	Fasciotomy	2.0	2	2	0.0	0	0	0.0	0	0	4.4	4	3
	Subtotal - Trauma	14.1	9	12	0.1	0	0	0.1	0	0	7.2	9	5
Total Major	Total Major	402.3	102	391	2.0	5	0	1.5	5	0	175.9	100	16
Venous	Portal-Systemic Shunt	0.2	1	0	0.0	0	0	0.0	0	0	0.0	0	0
	Operation For Varicose Veins	5.7	6	4	0.1	0	0	0.0	0	0	5.7	8	3
	Sclerotherapy, Periph Vein	0.7	3	0	0.0	0	0	0.0	0	0	0.3	1	0
	Embolectomy/Thrombectomy, venous	0.6	1	0	0.0	0	0	0.0	0	0	0.5	1	0
	Endoluminal ablation	11.4	14	7	0.0	0	0	0.0	0	0	1.2	3	0
	Operations For Venous Ulceration	0.1	0	0	0.0	0	0	0.0	0	0	0.1	1	0
	Venous Reconstruction	1.6	2	1	0.0	0	0	0.0	0	0	0.1	0	0
	Translum balloon angio, venous	20.9	22	16	0.2	1	0	0.0	0	0	8.9	11	6
	Translum mech thrombect, venous	2.9	4	2	0.0	0	0	0.0	0	0	0.7	2	0
	Thrombolysis, transven, transcat	1.9	3	1	0.0	0	0	0.0	0	0	0.9	2	0
	Exch of thromb cath (Sec Only)	0.0	0	0	0.0	0	0	0.0	0	0	0.1	0	0
	Interruption of IVC	12.7	12	9	0.1	1	0	0.0	0	0	3.6	6	2
	Repair A-V Malformation	0.1	0	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - Venous	58.8	36	50	0.5	2	0	0.1	0	0	22.1	19	18

		Sui	rgeon Fell	ow	leac	hing Assi	stant	Fil	st Assista	ant	Second	dary Proc	edures
		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	Nati Res MED
RRC Area	RRC Procedure												
Endovas-Diag	Arteriography	86.1	41	83	0.3	1	0	0.1	0	0	288.2	227	224
	Venography	17.0	18	12	0.1	0	0	0.0	0	0	23.8	26	17
	Angioscopy	0.1	1	0	0.0	0	0	0.0	0	0	1.1	6	0
	Intravascular Ultrasound	1.5	3	0	0.0	0	0	0.0	0	0	9.1	24	2
	Subtotal - Endo Diagnostic	104.7	47	105	0.4	1	0	0.1	0	0	322.2	247	263
Misc Vascular	Exploration of artery	3.4	5	2	0.0	0	0	0.0	0	0	14.7	20	5
	Postop exp bleed, Thromb Infect	2.6	5	1	0.0	0	0	0.0	0	0	0.7	20	0
	Major Vascular Ligation	3.8	4	3	0.0	0	0	0.0	0	0	1.0	2	0
	Inject pseudoaneurysm	1.2	2	0	0.0	0	0	0.0	0	0	0.1	0	0
	Spine Exposure	4.0	8	1	0.0	0	0	0.0	0	0	1.1	4	0
	Sympathectomy	0.1	0	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	0.4	1	0	0.0	0	0	0.0	0	0	0.3	1	0
	Subtotal - Misc Vascular	15.6	13	13	0.1	1	0	0.0	0	0	17.9	23	9
Vascular Access	A-V Fistula	30.3	22	28	0.5	1	0	0.0	0	0	1.2	5	0
Vasculai Access	A-V Graft	10.9	9	9	0.2	1	0	0.0	0	0	0.9	2	0
	Percutaneous-Other Access	3.2	7		0.2	0	0	0.0	0	0	1.8	4	0
	Revision, A-V Access	15.9	16	12	0.1	1	0	0.0	0	0	3.6	6	1
	Subtotal - Vascular Access	60.3	42	54	0.9	3	0	0.1	0	0	7.6	13	3
A	American Dist	4.0	0	0		4	0	• •	0	0	47	0	
Amputations	Amputation, Digit	4.6	6	3	0.2	1	0	0.0	0	0	1.7	3	1
	Amputation, Transmetatarsal	3.6	5	2	0.2	1	0	0.0	0	0	0.7	1	0
	Amputation, Below Knee	10.8	8	10	0.8	2	0	0.0	0	0	0.4	1	0
	Amputation, Above Knee	8.5 0.1	0	8	0.7 0.0	2	0	0.0 0.0	0	0	0.7 0.0	1	0
	Amputation, Upper Extremity		2	0		0	0		0	0		0	0
	Amputation Closure, Revision	1.0	2 19	27	0.0		0	0.0	0	0	0.0	4	2
	Subtotal - Amputations	28.7	19	21	2.0	4	U	0.1	U	U	3.4	4	2
Total Minor	Total Minor	268.1	103	254	4.0	8	0	0.4	1	0	373.2	270	320

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

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[PAGE 6]	Number of Programs in the Nation: 96	Numbe	er of Resid	lents in the	Nation:	130							
		Su	rgeon Fell	ow	Teac	hing Assi	stant	Fir	st Assista	int	Second	dary Proce	edures
		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	Nati Res MED
RRC Area	RRC Procedure												
Imaging / Diagnostic Studies	Carotid duplex ultrasound	42.7	61	1	0.0	0	0	0.1	1	0	3.7	14	0
	Peripheral arterial physiologic testing	34.3	55	0	0.0	0	0	0.1	1	0	5.2	23	0
	Peripheral arterial duplex ultrasound	32.1	50	2	0.0	0	0	0.1	1	0	6.0	21	0
	Venous duplex ultrasound	58.6	84	4	0.0	0	0	0.2	3	0	4.2	15	0
	Visceral vascular ultrasound	20.3	33	0	0.0	0	0	0.1	1	0	1.7	10	0
	Transcranial doppler	2.7	12	0	0.0	0	0	0.0	0	0	0.0	0	0
	Subtotal - Imaging/Diag	190.8	241	12	0.0	0	0	0.5	6	0	20.8	73	0

		Si	urgeon Fell	ow			Secor	ndary Proce	dures	
		Pr	og Percent	iles			Pr	og Percenti	les	
	10	30	50	70	90	10	30	50	70	90
RRC Area										
Aneurysm-Repair	54	69	89	106	125	3	7	13	23	48
Cerebrovascular	45	51	61	79	99	1	2	4	5	9
Periph-Obstruct	123	143	170	201	240	41	73	110	149	200
Abdominal-Obstruct	5	9	13	18	30	1	4	8	14	28
Upper Extremity	7	10	14	17	22	0	2	4	7	13
Extra-Anatomic	4	7	10	12	16	0	1	3	4	8
Thromb/Mech Thromb	2	6	11	16	25	0	2	3	6	14
Misc Endovasc Thera	1	3	4	7	13	1	3	4	7	12
Trauma	5	9	13	19	28	1	3	6	8	17
Total Major	295	356	403	452	546	74	112	170	223	295
Venous	21	35	49	76	102	5	12	18	26	48
Endovas-Diag	38	74	104	127	169	90	162	270	422	687
Misc Vascular	3	7	13	20	31	0	3	12	25	53
Vascular Access	9	28	54	80	112	0	1	3	7	21
Amputations	8	19	27	37	50	0	1	2	4	10
Total Minor	144	206	251	313	404	121	194	314	476	761
Total Operations	515	705	847	1,023	1,238	209	394	533	814	1,170
Imaging / Diagnostic Studies	0	0	7	368	521	0	0	0	4	35