

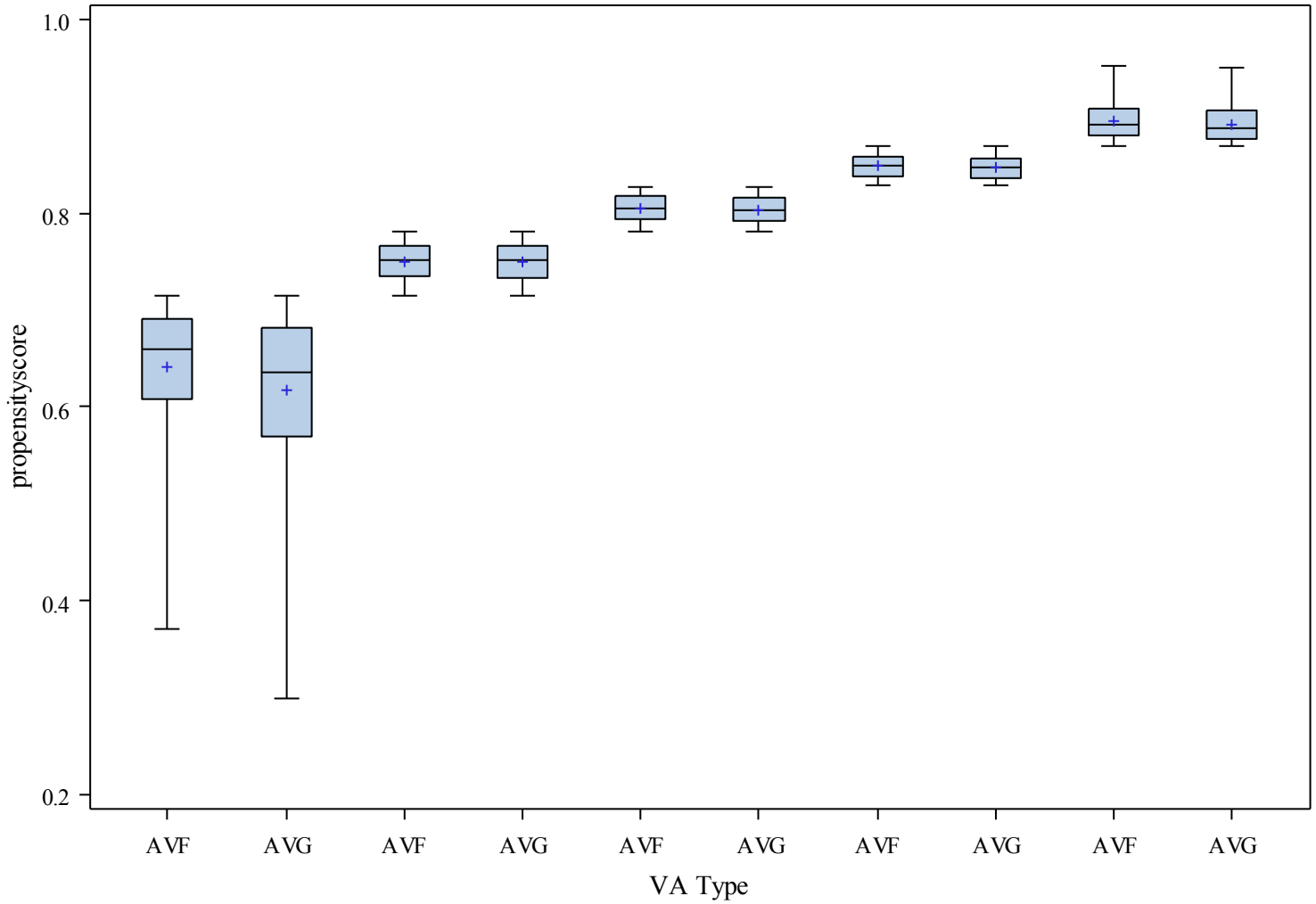
<b>Supplemental Data Table 1.</b> List of codes, frequency, and site of service for baseline co-morbidities.	
<i>Diabetes</i>	Either one of the following: (a) At least 1 inpatient claim with discharge ICD-9 diagnoses (any position) of 250.xx, 357.2, 362.0x, or 366.41 (b) At least 2 carrier claim, carrier line or outpatient claims with ICD-9 diagnoses (any position) of 250.xx, 357.2, 362.0x, or 366.41, linked by CLAIM_ID to an ambulatory physician evaluation and management claim, with the 2 claims occurring at least 7 days apart
<i>Cancer</i>	At least 2 claims in any file type on separate calendar days with ICD-9 diagnoses (any position) 140 - 239
<i>COPD</i>	At least 2 claims in any file type on separate calendar days with ICD-9 diagnoses (any position) 490 - 492
<i>Depression</i>	At least 2 claims in any file type on separate calendar days with ICD-9 diagnoses (any position) 311
<i>Dementia</i>	At least 2 claims in any file type on separate calendar days with ICD-9 diagnoses (any position) 290.*
<i>Acute myocardial infarction</i>	At least 1 inpatient claim with discharge ICD-9 diagnoses (first or second position) of 410.x0 or 410.x1 <i>in prior yr</i>
<i>Coronary revascularization</i>	At least 1 inpatient or outpatient claim or revenue center file or carrier line file with CPT codes 92980-92996 (angioplasty or stent) or 33510-33536 (CABG) or ICD-9 procedure codes 00.66 or 36.01-36.09 (angioplasty or stent) or 36.10-36.19 (CABG)
<i>History of stroke</i>	Any one of the following: (a) At least 1 inpatient ICD-9 diagnosis (any position) of 430.xx, 431.xx, 433.x1, 434.x1 or 436.x (b) At least 1 outpatient, carrier claim, or carrier line with ICD-9 diagnoses (any position) of 430.xx, 431.xx, 433.x1, 434.x1 or 436.x
<i>Amputation</i>	Any ICD-9 procedure code 84.1* or V49.75 <i>OR</i> listed on 2728 as having amputation
<i>All cause infection</i>	Based on ICD-9 codes: 001-139, 254.1, 320-326, 331.81, 372-372.39, 373.0-373.2, 382-382.4, 383.0, 386.33, 386.35, 388.60, 390-393, 421-421.1, 422.0, 422.91-422.93, 460-466, 472-474.0, 475-476.1, 478.21-478.24, 478.29, 480-490, 491.1, 494, 510-511, 513.0, 518.6, 519.01, 522.5, 522.7, 527.3, 528.3, 540-542, 566-567.9, 569.5, 572-572.1, 573.1-573.3, 575-575.12, 590-590.9, 595-595.4, 597-597.89, 598, 599.0, 601-601.9, 604-604.9, 607.1, 607.2, 608.0, 608.4, 611.0, 614-616.1, 616.3-616.4, 616.8, 670, 680-686.9, 706.0, 711-711.9, 730-730.3, 730.8-730.9, 790.7-790.8, 996.60-996.69, 997.62, 998.5, and 999.3.
<i>VA-related infection</i>	Based on ICD-9 codes: 996.62
<i>Bacteremia/Septecemia</i>	Based on ICD-9 codes: 039.0-038.9 and 790.7
<i>Cardiovascular Disease</i>	Based on ICD-9 codes: 428.0, 404.13, 443.9, 410.9, 415.1, and 996.73
<i>AVF/AVG Insertion</i>	Based on CPT Codes: 1. AVF insertion: 36818, 36819, 36820, 36821 2. AVG insertion: 36800, 36810, 36830, and 36825

**Supplemental Data Table 2.** Incidence rate and absolute risk difference for all cause, vascular access-related, bacteremia, and cardiovascular-related hospitalizations based on vascular access type.

	<b>Patients</b>	<b>Person -years at risk</b>	<i>All cause infection</i>	<b>Incidence rate</b>	<b>Risk differ- ence</b>	<i>VA- related</i>	<b>Incidence rate</b>	<b>Risk differ- -ence</b>	<i>Bacteremia/ Septicemia</i>	<b>Incidence rate</b>	<b>Risk differ- -ence</b>	<i>CVD- related</i>	<b>Incidence rate</b>	<b>Risk differ- -ence</b>
AVF cohort	7,433	3,363	4,102	1.22	-0.62	473	0.14	-0.08	1,609	0.48	-0.32	3,397	1.01	-0.47
AVG cohort	2,025	831	1,527	1.84	ref	185	0.22	ref	661	0.80	ref	1,231	1.48	ref
<i>Total</i>	9,458	4,194	5,629			658			2,270			4,628		

# Box Plot of Propensity Score Quintiles

Quintiles				
1	2	3	4	5



Quintile	HR	95% Confidence Interval	
1	0.668	0.596	0.748
2	0.796	0.697	0.908
3	0.687	0.595	0.794
4	0.856	0.729	1.004
5	0.781	0.647	0.994
<b>Weighted Mean HR</b>	<b>0.758</b>	<b>0.653</b>	<b>0.890</b>