

## Supplemental Material

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**Supplemental Item 2.** List of ICD-10-CM diagnosis codes and ICD-10-PCS procedure codes used to identify critical limb ischemia events

## **Supplemental Item 1. Supplemental Methods**

### *Further details on data sources*

This study includes data for fee-for-service (FFS) Medicare beneficiaries from the Medicare 20% random sample database (for non-ESKD cohorts) and the United States Renal Data System (USRDS) ESKD registry database (for ESKD cohorts). Each database contains Medicare data, including enrollment information, demographic characteristics, and claims files from Medicare Part A (covering care for inpatient hospital, skilled nursing facility, home health agency, and hospice), Part B (outpatient, physician/laboratory services, and durable medical equipment), and Part D (prescription drugs). In the ESKD cohorts, we additionally used data on treatment modality history from the End Stage Renal Disease Quality Reporting System (EQRS).

### *Inclusion and exclusion criteria*

Patients considered for inclusion were those who experienced a first (i.e., index) MATE between January 1, 2015, and December 31, 2018. The index date was defined as the admission date of the first MATE of any type during this period. The 1-year period before the index date served as the baseline period. Those who were not continuously enrolled in Medicare Parts A and B or who had any enrollment in Medicare Advantage during the baseline period, or who were not enrolled in Medicare Part D on the index date, were excluded. Patients who experienced a MATE during the baseline period were excluded. To establish the non-ESKD cohorts, we additionally excluded patients with a history of ESKD on the index date. In the ESKD cohorts, patients were required to be receiving maintenance dialysis and to not have a history of kidney transplantation on the index date. Patients aged <66 years on the index date

were excluded. Lastly, patients who had an inpatient index MATE longer than 180 days in length were excluded.

Our rationale for the age criteria used in this study relates to differences in eligibility criteria for Medicare by ESKD status. Patients with ESKD are eligible for Medicare at any age, whereas those who are <65 years and without ESKD can become eligible only if they also have a qualifying disability. As such, this study is focused on the population aged  $\geq 66$  years in order to ensure a fair comparison between the ESKD and non-ESKD populations and allow for a 1-year baseline period prior to the index date.

*Statistical analysis: Model-based standardization*

In the primary analyses, healthcare resource utilization (HCRU) and cost outcomes were adjusted for age, sex, and race using model-based standardization. Separately in each cohort, each HCRU outcome was modeled using a parametric model as a function of the following baseline covariates: main effects of age, sex, and race, and two-way interactions of age, sex, and race. Due to the small sample size of patients receiving home dialysis, the models in these cohorts did not include any interactions. The coefficients of the models fitted in each cohort (i.e., non-ESKD, ICHD, and home dialysis) were applied separately to the non-ESKD cohort, resulting in three sets of predicted values that were summarized into the adjusted outcome measures. As such, adjusted HCRU measures in the ESKD cohorts were directly standardized to the patient characteristics of the non-ESKD (i.e., reference) cohort. Adjusted cost measures were estimated in a similar manner, except we used a two-part modeling procedure. In a sensitivity analysis of the cost outcomes only, we estimated outcome measures adjusted for all patient characteristics. Further details about the model-based adjustment methods are provided in **Supplemental Table 5**.

**Supplemental Table 1.** Algorithms for identifying the index MATEs

Index MATE type	ICD-9-CM diagnosis codes	ICD-10-CM diagnosis codes	Details
Myocardial infarction	410.*0, 410.*1	I21.*	≥1 inpatient diagnosis (primary position only)
Ischemic stroke	433.*1, 434.*1, 436	I63.*	≥1 inpatient diagnosis (primary position only)
Venous thromboembolism	Pulmonary embolism 415.1* OR Deep vein thrombosis 451.1*, 453.2, 453.4*, 453.82, 453.83, 453.84, 453.85, 453.86, 453.87, 453.89, 453.9	Pulmonary embolism I26.0*, I26.9* OR Deep vein thrombosis I80.1*, I80.20*, I82.210, I80.22*, I80.23*, I80.29*, I82.40*, I82.41*, I82.42*, I82.43*, I82.44*, I82.49*, I82.4Y*, I82.4Z*, I82.60*, I82.62*, I82.890, I82.A1*, I82.B1*, I82.C1*	≥1 inpatient diagnosis (primary position only) OR ≥2 outpatient diagnoses separated by 7 to 183 days (any position)  Note: For outpatient events, the index date was defined as the date of the first qualifying outpatient claim.
Critical limb ischemia	Atherosclerosis of native arteries of extremities 440.22, 440.23, 440.24 OR Peripheral artery disease† 440.20, 440.21, 440.29, 440.3, 440.9, 249.70, 249.71, 250.70-250.73, 443.81, 443.1, 443.9, 444.22, 444.81	Atherosclerosis of native arteries of extremities See <b>Supplemental Item 2</b> , Diagnosis codes (category 1) OR Peripheral artery disease† See <b>Supplemental Item 2</b> , Diagnosis codes (category 2)	≥1 inpatient diagnosis (primary position only)

Abbreviations: ICD-9/10-CM, International Classification of Diseases, 9th and 10th Revision, Clinical Modification; MATE, major adverse thrombotic event.

†To qualify as a critical limb ischemia event, a diagnosis for peripheral artery disease must be accompanied by a secondary discharge diagnosis of gangrene, chronic ulcer, osteomyelitis, or cellulitis of the lower extremity (ICD-9-CM diagnosis: 785.4, 707.1, 730.05, 730.06, 730.07, 730.15, 730.16, 730.17, 682.6, 682.7, 681.1; ICD-10-CM diagnosis: See **Supplemental Item 2**, Diagnosis codes [category 3]) or a revascularization or major amputation procedure during the hospitalization (ICD-9-CM procedure: 39.25, 39.29, 38.08, 38.16, 38.18, 38.38, 38.48, 38.68, 38.88, 39.50, 39.90, 00.55, 84.10, 84.13, 84.14, 84.15, 84.16, 84.17, 84.3; ICD-10-PCS: See **Supplemental Item 2**, Procedure codes).

**Supplemental Table 2.** Details for identification of specific types of Medicare claims

Claim type	Details
Inpatient hospital admission	Part A inpatient hospital claims, except for those related to rehabilitation or long-term care. Claims that were overlapping, interim, transfers, or on consecutive days were consolidated.
Inpatient hospital with ICU admission	Part A inpatient hospital claims with revenue center code 020x.
Observation unit encounter	Part B outpatient facility claims with revenue center code 0762. When defining healthcare resource utilization outcomes, instances in which a patient transitioned from observation to inpatient status were only counted as inpatient hospital admissions.
Emergency department encounter	Part B outpatient facility claims with revenue center code 045x. When defining healthcare resource utilization outcomes, instances in which a patient transitioned from observation to inpatient status were only counted as inpatient hospital admissions.
Outpatient encounter	Part B outpatient facility claims, except for those with type-of-bill code 72 (renal dialysis facility). Outpatient dialysis facility claims were not included as part of any outcomes in this study.
Other institutional encounter	Part A claims for inpatient rehabilitation, home health agency, skilled nursing facility, or hospice care.
Outpatient cardiac rehabilitation encounter	Part B outpatient facility or carrier claims with any of the following Healthcare Common Procedure Coding System (HCPCS) codes: 93797, 93798, G0422, G0423. Carrier claims were limited to those in the outpatient setting (claims with any of the following place of service codes: 11, 19, 22).
Encounter involving physician services	Part B carrier claims with any of the following physician specialty codes: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 37, 38, 39, 40, 41, 44, 46, 48, 66, 70, 72, 76, 77, 78, 79, 81, 82, 83, 84, 85, 86, 90, 91, 92, 93, 94, 98, 99, C0, C3, C5, C6, C7, C8, C9, D3, D4, D7, D8.

**Supplemental Table 3.** ICD-9/10-CM diagnosis codes for identifying disease-specific healthcare encounters during follow-up

<b>Disease-specific category</b>	<b>ICD-9-CM diagnosis codes</b>	<b>ICD-10-CM diagnosis codes</b>
Myocardial infarction	410.*0, 410.*1, 410.*2, 429.5, 429.6, 429.71, 429.79	I21.*, I22.*, I23.*
Ischemic stroke	433.*1, 434.*1, 436, 438.*	I63.*, I69.3*
Venous thromboembolism	415.1*, 451.1*, 453.2, 453.4*, 453.82, 453.83, 453.84, 453.85, 453.86, 453.87, 453.89, 453.9	I26.0*, I26.9*, I80.1*, I80.20*, I82.210, I80.22*, I80.23*, I80.29*, I82.40*, I82.41*, I82.42*, I82.43*, I82.44*, I82.49*, I82.4Y*, I82.4Z*, I82.60*, I82.62*, I82.890, I82.A1*, I82.B1*, I82.C1*
Critical limb ischemia	440.22, 440.23, 440.24, 440.20, 440.21, 440.29, 440.3, 440.9, 249.70, 249.71, 250.70-250.73, 443.81, 443.1, 443.9, 444.22, 444.81	See diagnosis codes listed in sheets “Diagnosis codes (category 1)” and “Diagnosis codes (category 2)” in <b>Supplemental Item 2</b>

Abbreviations: ICD-9/10-CM, International Classification of Diseases, 9th and 10th Revision, Clinical Modification.

A healthcare encounter was considered disease-specific if it had  $\geq 1$  diagnosis in any position from the disease-specific category of interest.

**Supplemental Table 4.** ICD-9/10-CM diagnosis codes for defining comorbid conditions (each defined based on having a diagnosis code on  $\geq 1$  inpatient, skilled nursing facility, home health, or hospice claim or  $\geq 2$  outpatient, physician/laboratory services, or durable medical equipment claims separated by  $\geq 30$  days in the baseline period)

Comorbid condition*	ICD-9-CM diagnosis codes	ICD-10-CM diagnosis codes
Diabetes without chronic complications	2500, 2501, 2502, 2503, 2508, 2509	E100, E101, E106, E108, E109, E110, E111, E116, E118, E119, E120, E121, E126, E128, E129, E130, E131, E136, E138, E139, E140, E141, E146, E148, E149
Diabetes with chronic complications	2504, 2505, 2506, 2507	E102, E103, E104, E105, E107, E112, E113, E114, E115, E117, E122, E123, E124, E125, E127, E132, E133, E134, E135, E137, E142, E143, E144, E145, E147
Myocardial infarction	410, 412	I21, I22, I252
Congestive heart failure	39891, 40201, 40211, 40291, 40401, 40403, 40411, 40413, 40491, 40493, 4254, 4255, 4257, 4258, 4259, 428	I43, I50, I099, I110, I130, I132, I255, I420, I425, I426, I427, I428, I429, P290
Cerebrovascular disease	36234, 430, 431, 432, 433, 434, 435, 436, 437, 438	G45, G46, I60, I61, I62, I63, I64, I65, I66, I67, I68, I69, H340
Peripheral vascular disease	0930, 4373, 440, 441, 4431, 4432, 4438, 4439, 4471, 5571, 5579, V434	I70, I71, I731, I738, I739, I771, I790, I792, K551, K558, K559, Z958, Z959
Atrial fibrillation	4273	I48
Chronic pulmonary disease	4168, 4169, 490, 491, 492, 493, 494, 495, 496, 500, 501, 502, 503, 504, 505, 5064, 5081, 5088	J40, J41, J42, J43, J44, J45, J46, J47, J60, J61, J62, J63, J64, J65, J66, J67, I278, I279, J684, J701, J703
Rheumatologic disease	4465, 7100, 7101, 7102, 7103, 7104, 7140, 7141, 7142, 7148, 725	M05, M32, M33, M34, M06, M315, M351, M353, M360
Peptic ulcer disease	5317, 5319, 5327, 5329, 5337, 5339, 5347, 5349	K25, K26, K27, K28
Mild liver disease	07022, 07023, 07032, 07033, 07044, 07054, 0706, 0709, 570, 571, 5733, 5734, 5738, 5739, V427	B18, K73, K74, K700, K701, K702, K703, K709, K717, K713, K714, K715, K760, K762, K763, K764, K768, K769, Z944
Moderate or severe liver disease	4560, 4561, 4562, 5722, 5723, 5724, 5728	K704, K711, K721, K729, K765, K766, K767, I850, I859, I864, I982
Dementia	290, 2941, 3312	F00, F01, F02, F03, G30, F051, G311
Hemiplegia or paraplegia	3341, 342, 343, 3440, 3441, 3442, 3443, 3444, 3445, 3446, 3449	G81, G82, G041, G114, G801, G802, G830, G831, G832, G833, G834, G839
Any malignancy	140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 200, 201, 202, 203, 204, 205, 206, 207, 208, 2386	C00, C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C30, C31, C32, C33, C34, C37, C38, C39, C40, C41, C43, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C81, C82, C83, C84, C85, C88, C90, C91, C92, C93, C94, C95, C96, C97
Metastatic solid tumor	196, 197, 198, 199	C77, C78, C79, C80
Renal disease†	40301, 40311, 40391, 40402, 40403, 40412, 40413, 40492, 40493, 582, 5830, 5831, 5832, 5834, 5836, 5837, 585, 586, 5880, V420, V451, V56	N18, N19, N052, N053, N054, N055, N056, N057, N250, I120, I131, N032, N033, N034, N035, N036, N037, Z490, Z491, Z492, Z940, Z992
HIV or AIDS†	042, 043, 044	B20, B21, B22, B24

Abbreviations: ICD-9/10-CM, International Classification of Diseases, 9th and 10th Revision, Clinical Modification.

\*With the exception of atrial fibrillation, all comorbid conditions constitute the Charlson comorbid conditions.

†Renal disease and HIV/AIDS were defined for construction of the Charlson comorbidity index score, but were not defined as individual comorbid conditions in this study. Renal disease was not included due to its ubiquity in the ESKD cohorts. HIV/AIDS was not included due to very small numbers.

**Supplemental Table 5.** Details for the modeling of the healthcare resource utilization and cost outcomes

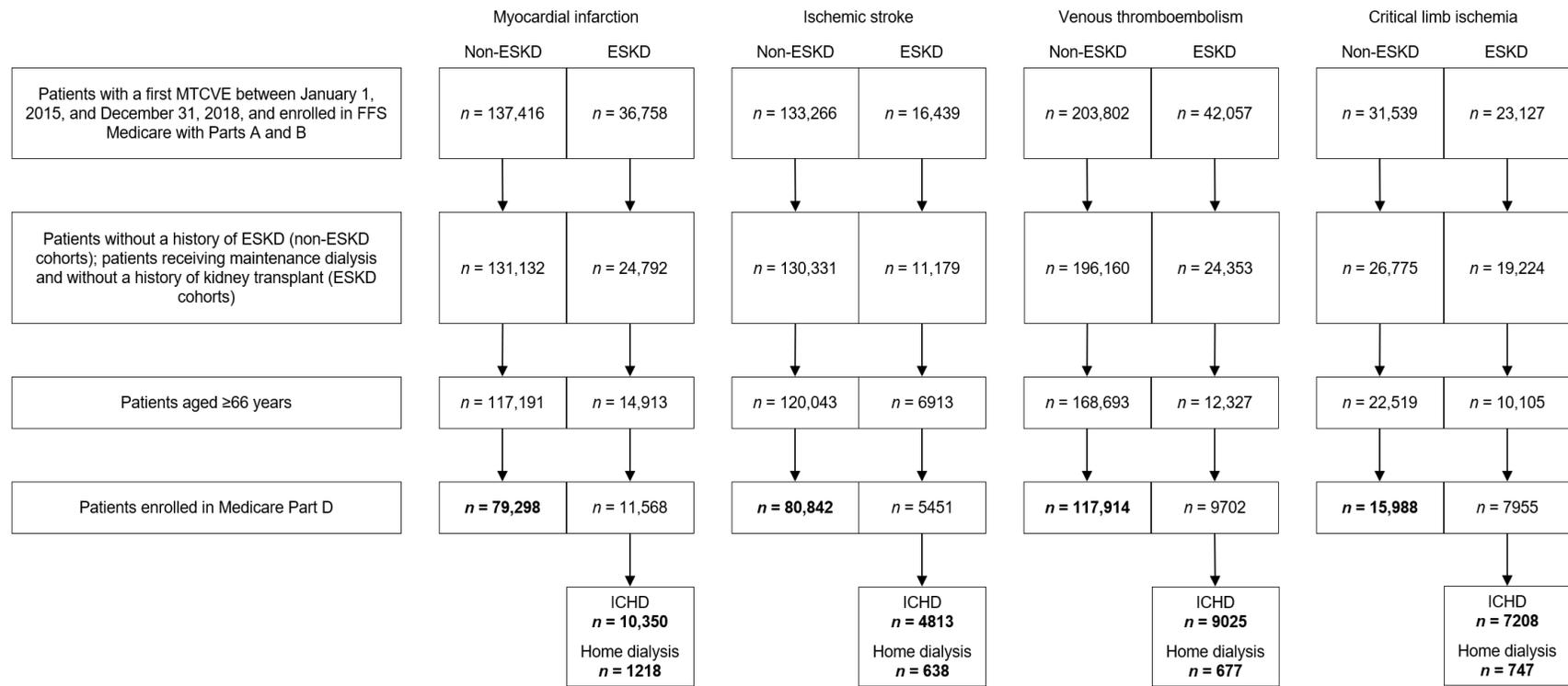
Outcomes measure	Model type	Method of summarizing predicted values after applying each model to the non-ESKD cohort
Mean length of stay	GLM with negative binomial distribution and log link function.	Mean of predicted values
Percentage with fatal index event; percentage with 30-day readmission	GLM with binomial distribution and logit link function	Mean of predicted values
Rate of encounters in 1-year follow-up	GLM with Poisson distribution and a log link function, with log of follow-up time as an offset term	Sum the predicted values; then divide by the total person-time in the non-ESKD cohort
Mean cost of index event	Two-part model* Model 1: GLM with binomial distribution and a logit link function to model the probability of having a positive cost Model 2: GLM with a gamma distribution and a log link function to model the distribution of positive costs (excluding patients with \$0 in total costs)	First calculate product of predicted values from model 1 and model 2 for each patient; then take the mean
PPPY costs in 1-year follow-up	Two-part model* Model 1: GLM with binomial distribution and a logit link function to model the probability of having a positive cost Model 2: GLM with a gamma distribution and a log link function to model the distribution of positive costs (excluding patients with \$0 in total costs)†	First calculate product of predicted values from model 1 and model 2 for each patient; then take the mean; then divide by the total person-time in the non-ESKD cohort

Abbreviations: ESKD, end-stage kidney disease; GLM, generalized linear model; PPPY, per person per year.

\*In the two-part cost models, Model 1 did not include any interactions for any cohorts (i.e., it included age, sex, and race as main effects only).

For outcomes in which there were 20 or fewer patients with \$0 in total costs, a one-part gamma model was used due to instability of the binomial model. For some outcomes in which there were too few patients with total costs >\$0, we were unable to estimate adjusted cost measures.

†In the sensitivity analysis with full covariate adjustment in the non-ESKD and ICHD cohorts, Model 2 in the two-part model was additionally adjusted for main effects of Medicaid (dual) eligibility, atrial fibrillation, Charlson component comorbid conditions and comorbidity index, number of inpatient hospital admissions, and total healthcare costs in the baseline period. Due to low prevalence, moderate or severe liver disease was not included in any models, and hemiplegia or paraplegia was excluded from all models in the myocardial infarction cohorts. In the fully-adjusted model in the home dialysis cohort, model 2 was additionally adjusted for the same set of covariates as above, but with the exception of the Charlson component comorbid conditions.



**Supplemental Figure 1.** Construction of the study cohorts. Abbreviations: ESKD, end-stage kidney disease; FFS, fee-for-service; ICHD, in-center hemodialysis; MATE, major adverse thrombotic event.

**Supplemental Table 6.** Healthcare resource utilization and costs related to the index MATE. Unless otherwise specified, results are adjusted for age, sex, and race.

	MATE cohort					
	Myocardial infarction			Ischemic stroke		
	Non-ESKD	ICHD	Home dialysis	Non-ESKD	ICHD	Home dialysis
Number of patients with index event	79,298	10,350	1218	80,842	4813	638
Index event setting, %						
Inpatient	100	100	100	100	100	100
Outpatient	0	0	0	0	0	0
Hospital length of stay						
Adjusted mean (SE)	6.2 (0.014)	7.3 (0.048)	7.8 (0.159)	5.6 (0.011)	7.0 (0.066)	7.4 (0.205)
Adjusted mean diff. (95% CI)	Ref	1.1 (1.0, 1.2)	1.6 (1.3, 1.9)	Ref	1.4 (1.3, 1.5)	1.8 (1.3, 2.1)
Cost (Medicare payment) of index event, 2019 USD in thousands						
Unadjusted mean (SE)	18.0 (0.053)	23.7 (0.168)	26.8 (0.541)	10.3 (0.028)	16.2 (0.159)	15.5 (0.386)
Unadjusted mean diff. (95% CI)	Ref	5.7 (5.3, 6.0)	8.9 (7.8, 9.9)	Ref	5.9 (5.6, 6.2)	5.2 (4.4, 6.0)
Adjusted mean (SE)	18.0 (0.053)	22.4 (0.172)	25.3 (0.538)	10.3 (0.028)	15.4 (0.156)	15.7 (0.428)
Adjusted mean diff. (95% CI)	Ref	4.4 (4.1, 4.8)	7.3 (6.2, 8.4)	Ref	5.1 (4.8, 5.5)	5.4 (4.5, 6.2)
Fatal index event						
Adjusted percentage	7.0	11.6	16	4.9	10.2	7.7
Adjusted percentage diff. (95% CI)	Ref	4.6 (4.0, 5.2)	9.0 (6.9, 11.1)	Ref	5.3 (4.4, 6.2)	2.8 (0.4, 5.1)
	Venous thromboembolism <sup>†</sup>			Critical limb ischemia		
	Non-ESKD	ICHD	Home dialysis	Non-ESKD	ICHD	Home dialysis
	Non-ESKD	ICHD	Home dialysis	Non-ESKD	ICHD	Home dialysis
Number of patients with index event	117,914	9025	677	15,988	7208	747
Index event setting, %						
Inpatient	25.5	16.4	20.7	100	100	100
Outpatient	74.5	83.6	79.3	0	0	0
Hospital length of stay						
Adjusted mean (SE)	5.8 (0.018)	7.7 (0.106)	8.6 (0.689)	7.7 (0.039)	10.3 (0.086)	10.9 (0.308)
Adjusted mean diff. (95% CI)	Ref	1.9 (1.7, 2.1)	2.9 (1.5, 4.0)	Ref	2.7 (2.5, 2.9)	3.3 (2.7, 3.9)
Medicare payment cost of index event, 2019 USD in thousands						
Unadjusted mean (SE)	10.1 (0.039)	16.2 (0.184)	20.9 (0.841)	19.1 (0.085)	26.8 (0.173)	28.8 (0.649)
Unadjusted mean diff. (95% CI)	Ref	6.1 (5.7, 6.4)	10.7 (9.1, 12.4)	Ref	7.7 (7.3, 8.0)	9.7 (8.4, 10.9)
Adjusted mean (SE)	10.2 (0.039)	15.1 (0.193)	19.7 (0.797)	19.1 (0.085)	26.6 (0.213)	28.7 (0.967)
Adjusted mean diff. (95% CI)	Ref	4.9 (4.5, 5.3)	9.5 (8.0, 11.1)	Ref	7.5 (7.1, 7.9)	9.6 (7.7, 11.2)
Fatal index event						
Adjusted percentage	4.3	8.2	9.6	2.1	5.7	8.0
Adjusted percentage diff. (95% CI)	Ref	3.9 (3.3, 4.4)	5.4 (3.1, 7.4)	Ref	3.6 (3.0, 4.1)	5.9 (4.0, 8.1)

Abbreviations: CI, confidence interval; ESKD, end-stage kidney disease; ICHD, in-center hemodialysis; MATE, major adverse thrombotic event; SE, standard error.

<sup>†</sup>In the venous thromboembolism cohorts: length of stay was assessed among the subset of patients with an inpatient index event (N patients: 30,090 [non-ESKD]; 1484 [ICHD]; 140 [home dialysis]); fatal index event represents in-hospital death (for inpatient events) or all-cause death within 30 days (for outpatient events); and costs represent index hospitalization costs (for inpatient events) or disease-specific costs within 30 days (for outpatient events)

**Supplemental Table 7.** Healthcare costs related to the index MATE, fully adjusted for age, sex, race, dual eligible status, individual Charlson comorbid conditions, Charlson comorbidity index, number of inpatient hospital admissions, and total healthcare costs in the baseline period

	MATE cohort					
	Myocardial infarction			Ischemic stroke		
	Non-ESKD	ICHD	Home dialysis	Non-ESKD	ICHD	Home dialysis
Number of patients with index event	79,298	10,350	1218	80,842	4813	638
Medicare payment cost of index event, 2019 USD in thousands						
Adjusted mean (SE)	18.0 (0.053)	25.7 (0.619)	27.5 (1.277)	10.3 (0.028)	14.7 (0.348)	13.6 (0.423)
Adjusted mean diff. (95% CI)	Ref	7.8 (6.5, 8.9)	9.5 (6.9, 12.0)	Ref	4.4 (3.7, 5.1)	3.4 (2.5, 4.2)
	Venous thromboembolism <sup>†</sup>			Critical limb ischemia		
	Non-ESKD	ICHD	Home dialysis	Non-ESKD	ICHD	Home dialysis
Number of patients with index event	117,914	9025	677	15,988	7208	747
Medicare payment cost of index event, 2019 USD in thousands						
Adjusted mean (SE)	10.2 (0.039)	14.5 (0.417)	20.1 (1.458)	19.1 (0.085)	26.8 (0.602)	29.1 (1.423)
Adjusted mean diff. (95% CI)	Ref	4.4 (3.6, 5.2)	10.0 (7.2, 12.7)	Ref	7.7 (6.6, 8.7)	10.0 (7.3, 12.3)

Abbreviations: CI, confidence interval; ESKD, end-stage kidney disease; ICHD, in-center hemodialysis; MATE, major adverse thrombotic event.

<sup>†</sup>In the venous thromboembolism cohorts: costs represent index hospitalization costs (for inpatient events) or disease-specific costs within 30 days (for outpatient events)

**Supplemental Table 8.** 30-day disease-specific and all-cause hospital readmission after the index MATE, adjusted for age, sex, and race

	MATE cohort					
	Myocardial infarction			Ischemic stroke		
	Non-ESKD	ICHD	Home dialysis	Non-ESKD	ICHD	Home dialysis
Number of patients with index event	73,616	9151	1039	76,747	4352	589
Disease-specific readmission						
Adjusted percentage	7.7	13.8	16.6	7.6	14.2	17.5
Adjusted percentage diff. (95% CI)	Ref	6.1 (5.5, 6.8)	8.8 (6.4, 11.0)	Ref	6.6 (5.6, 7.6)	9.8 (6.6, 13.2)
All-cause readmission						
Adjusted percentage	17	32.7	35.5	13.3	28.4	31.4
Adjusted percentage diff. (95% CI)	Ref	15.7 (14.8, 16.7)	18.5 (15.6, 21.2)	Ref	15.1 (13.8, 16.5)	18.2 (14.3, 22.1)
	Venous thromboembolism <sup>†</sup>			Critical limb ischemia		
	Non-ESKD	ICHD	Home dialysis	Non-ESKD	ICHD	Home dialysis
Number of patients with index event	29,107	1373	*	15,626	6757	676
Disease-specific readmission						
Adjusted percentage	6.1	11.6	15.5	18.5	35.3	39.8
Adjusted percentage diff. (95% CI)	Ref	5.5 (3.9, 7.1)	9.4 (4.3, 14.0)	Ref	16.8 (15.6, 18.0)	21.3 (17.6, 25.0)
All-cause readmission						
Adjusted percentage	14.4	31.5	26.6	22.6	41.3	44.4
Adjusted percentage diff. (95% CI)	Ref	17.2 (14.9, 19.4)	12.2 (6.6, 18.3)	Ref	18.7 (17.5, 20.0)	21.8 (17.9, 25.6)

Abbreviations: CI, confidence interval; ESKD, end-stage kidney disease; ICHD, in-center hemodialysis; MATE, major adverse thrombotic event.

\*Suppressed to prevent identification of a cell with a sample size of 1-10 beneficiaries

<sup>†</sup>In the venous thromboembolism cohorts, readmission was assessed among the subset of patients with an inpatient index event

**Supplemental Table 9.** Disease-specific healthcare resource utilization in the 1-year period after the index MATE, adjusted for age, sex, and race

	MATE cohort					
	Myocardial infarction			Ischemic stroke		
	Non-ESKD	ICHHD	Home dialysis	Non-ESKD	ICHHD	Home dialysis
Number of patients in analysis	73,616	9151	1039	76,747	4352	589
Inpatient hospital admissions						
Adjusted rate (SE) per 100 PY	21.0 (0.163)	62.5 (1.133)	78.2 (4.924)	37.1 (0.246)	79.8 (2.042)	89.6 (6.426)
Adjusted rate diff. (95% CI) per 100 PY	Ref	41.6 (39.4, 43.7)	57.2 (47.4, 67.3)	Ref	42.7 (38.6, 46.6)	52.4 (40.5, 65.8)
Inpatient hospital ICU admissions						
Adjusted rate (SE) per 100 PY	10.0 (0.107)	33.7 (0.797)	38.5 (3.008)	14.1 (0.135)	31.2 (1.150)	42.4 (4.392)
Adjusted rate diff. (95% CI) per 100 PY	Ref	23.8 (22.2, 25.4)	28.5 (22.3, 34.5)	Ref	17.1 (14.9, 19.4)	28.3 (20.7, 37.7)
Days in inpatient hospital						
Adjusted rate (SE) per PY	1.5 (0.017)	4.9 (0.106)	7.0 (0.509)	2.9 (0.027)	7.5 (0.230)	10.0 (0.920)
Adjusted rate diff. (95% CI) per PY	Ref	3.3 (3.1, 3.5)	5.5 (4.5, 6.5)	Ref	4.6 (4.1, 5.1)	7.1 (5.3, 9.0)
Observation unit encounters						
Adjusted rate (SE) per 100 PY	1.8 (0.044)	2.5 (0.185)	1.8 (0.607)	4.0 (0.068)	4.9 (0.392)	8.8 (2.256)
Adjusted rate diff. (95% CI) per 100 PY	Ref	0.7 (0.3, 1.1)	0.0 (-1.1, 1.2)	Ref	0.9 (0.1, 1.6)	4.8 (0.5, 9.3)
Emergency department encounters						
Adjusted rate (SE) per 100 PY	1.2 (0.035)	1.7 (0.143)	1.9 (0.507)	5.4 (0.083)	7.1 (0.550)	3.9 (0.836)
Adjusted rate diff. (95% CI) per 100 PY	Ref	0.5 (0.2, 0.8)	0.7 (-0.3, 1.7)	Ref	1.8 (0.7, 2.8)	-1.4 (-3.1, 0.2)
Outpatient encounters						
Adjusted rate (SE) per 100 PY	93.3 (0.657)	47.4 (1.411)	81.6 (9.864)	200.5 (1.072)	139.1 (4.938)	151.4 (12.931)
Adjusted rate diff. (95% CI) per 100 PY	Ref	-45.9 (-48.9, -42.9)	-11.7 (-29.7, 6.0)	Ref	-61.4 (-71.2, -51.6)	-49.1 (-74.3, -24.9)
Other institutional care visits						
Adjusted rate (SE) per 100 PY	68.1 (0.429)	93.0 (1.872)	90.8 (7.117)	245.5 (0.895)	280.1 (5.596)	279.9 (16.348)
Adjusted rate diff. (95% CI) per 100 PY	Ref	24.9 (20.9, 28.3)	22.7 (10.1, 37.2)	Ref	34.6 (23.2, 46.1)	34.4 (3.6, 67.0)
Outpatient cardiac rehabilitation encounters						
Adjusted rate (SE) per 100 PY	244.1 (2.511)	9.1 (1.124)	27.9 (8.746)	0.2 (0.040)	0.0 (0.000)	0.0 (0.000)
Adjusted rate diff. (95% CI) per 100 PY	Ref	-235.0 (-240.4, -229.3)	-216.2 (-231.7, -201.6)	Ref	-0.2 (-0.2, -0.1)	-0.2 (-0.2, -0.1)
Physician service encounters						
Adjusted rate (SE) per 100 PY	586.9 (1.651)	641.7 (7.916)	831.3 (37.677)	1196.2 (3.319)	1057.9 (20.542)	1449.2 (83.831)
Adjusted rate diff. (95% CI) per 100 PY	Ref	54.8 (39.4, 72.2)	244.4 (172.5, 318.8)	Ref	-138.3 (-175.4, -95.1)	253.0 (102.5, 436.4)

**Supplemental Table 9 (continued).** Disease-specific healthcare resource utilization in the 1-year period after the index MATE, adjusted for age, sex, and race

	Venous thromboembolism			Critical limb ischemia		
	Non-ESKD	ICHHD	Home dialysis	Non-ESKD	ICHHD	Home dialysis
Number of patients in analysis	112,551	8238	572	15,626	6757	676
Inpatient hospital admissions						
Adjusted rate (SE) per 100 PY	22.0 (0.127)	45.5 (0.864)	59.3 (4.685)	114.5 (0.997)	269.5 (3.131)	368.2 (14.800)
Adjusted rate diff. (95% CI) per 100 PY	Ref	23.5 (21.9, 25.2)	37.3 (29.1, 47.1)	Ref	155.1 (148.8, 161.5)	253.7 (225.6, 283.8)
Inpatient hospital ICU admissions						
Adjusted rate (SE) per 100 PY	7.8 (0.073)	19.2 (0.550)	23.2 (2.760)	40.4 (0.557)	100.4 (1.822)	143.1 (9.398)
Adjusted rate diff. (95% CI) per 100 PY	Ref	11.4 (10.3, 12.5)	15.4 (10.3, 21.1)	Ref	60.0 (56.3, 63.8)	102.7 (85.1, 120.6)
Days in inpatient hospital						
Adjusted rate (SE) per PY	2.2 (0.019)	5.8 (0.159)	8.5 (0.816)	9.8 (0.112)	26.7 (0.404)	40.5 (2.066)
Adjusted rate diff. (95% CI) per PY	Ref	3.6 (3.3, 3.9)	6.3 (4.8, 7.9)	Ref	16.9 (16.1, 17.8)	30.7 (26.8, 34.9)
Observation unit encounters						
Adjusted rate (SE) per 100 PY	5.6 (0.060)	4.4 (0.266)	5.2 (1.156)	9.3 (0.222)	18.4 (0.628)	21.1 (2.862)
Adjusted rate diff. (95% CI) per 100 PY	Ref	-1.2 (-1.7, -0.7)	-0.4 (-2.7, 1.8)	Ref	9.2 (7.8, 10.5)	11.9 (6.2, 17.9)
Emergency department encounters						
Adjusted rate (SE) per 100 PY	12.9 (0.092)	7.8 (0.422)	9.5 (1.504)	12.7 (0.294)	21.3 (0.776)	21.4 (2.562)
Adjusted rate diff. (95% CI) per 100 PY	Ref	-5.1 (-5.9, -4.3)	-3.4 (-6.6, -0.6)	Ref	8.6 (7.0, 10.3)	8.7 (4.0, 14.0)
Outpatient encounters						
Adjusted rate (SE) per 100 PY	220.6 (1.085)	170.6 (4.692)	213.0 (20.303)	343.6 (3.899)	431.7 (9.189)	486.4 (30.296)
Adjusted rate diff. (95% CI) per 100 PY	Ref	-50.0 (-59.9, -40.4)	-7.5 (-49.5, 30.5)	Ref	88.1 (69.0, 106.7)	142.8 (82.8, 200.1)
Other institutional care visits						
Adjusted rate (SE) per 100 PY	73.4 (0.373)	73.4 (1.825)	102.1 (9.122)	232.4 (1.896)	359.4 (4.840)	443.1 (19.707)
Adjusted rate diff. (95% CI) per 100 PY	Ref	-0.0 (-3.7, 3.5)	28.7 (9.9, 46.8)	Ref	126.9 (116.7, 136.9)	210.7 (172.3, 251.8)
Outpatient cardiac rehabilitation encounters						
Adjusted rate (SE) per 100 PY	0.5 (0.086)	0.0 (0.018)	0.9 (0.717)	1.3 (0.393)	0.0 (0.000)	0.5 (0.448)
Adjusted rate diff. (95% CI) per 100 PY	Ref	-0.5 (-0.7, -0.3)	0.4 (-0.7, 1.2)	Ref	-1.3 (-2.1, -0.5)	-0.8 (-1.9, 0.3)
Physician service encounters						
Adjusted rate (SE) per 100 PY	738.3 (1.762)	560.6 (8.530)	894.4 (44.265)	1545.2 (9.153)	1879.0 (26.526)	2540.2 (127.926)
Adjusted rate diff. (95% CI) per 100 PY	Ref	-177.7 (-195.0, -160.9)	156.1 (71.3, 247.1)	Ref	333.8 (282.4, 390.0)	995.0 (758.7, 1279.1)

Abbreviations: CI, confidence interval; ESKD, end-stage kidney disease; ICHD, in-center hemodialysis; MATE, major adverse thrombotic event; PY, person-years; SE, standard error.

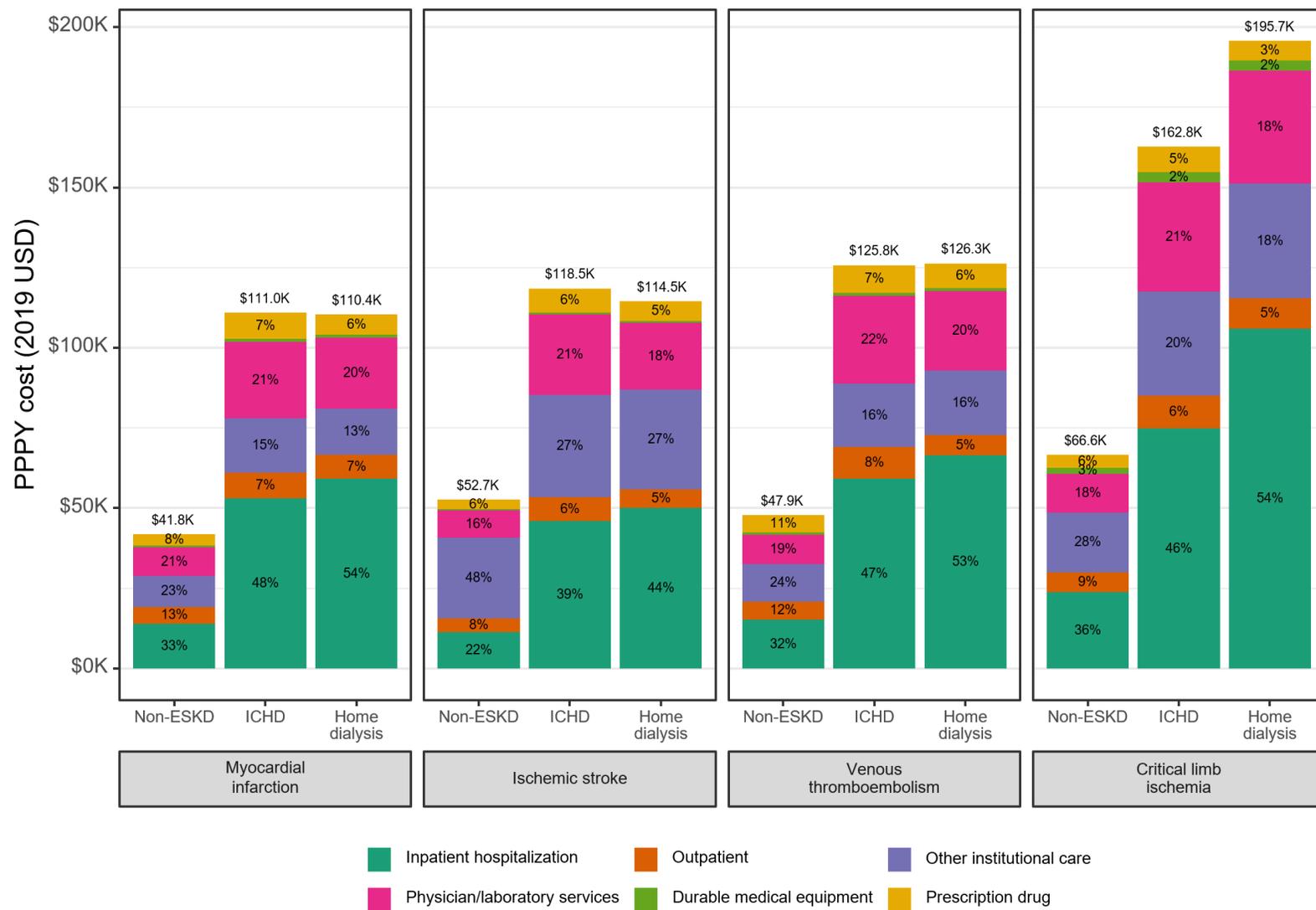
**Supplemental Table 10.** All-cause healthcare resource utilization in the 1-year period after the index MATE, adjusted for age, sex, and race

	MATE cohort					
	Myocardial infarction			Ischemic stroke		
	Non-ESKD	ICHHD	Home dialysis	Non-ESKD	ICHHD	Home dialysis
Number of patients in analysis	73,616	9151	1039	76,747	4352	589
<b>Inpatient hospital admissions</b>						
Adjusted rate (SE) per 100 PY	103.4 (0.469)	308.2 (2.997)	314.0 (10.391)	93.1 (0.430)	272.0 (4.435)	272.2 (12.375)
Adjusted rate diff. (95% CI) per 100 PY	Ref	204.7 (198.9, 210.7)	210.5 (190.8, 232.0)	Ref	178.9 (170.6, 187.9)	179.1 (156.2, 205.3)
<b>Inpatient hospital ICU admissions</b>						
Adjusted rate (SE) per 100 PY	39.3 (0.257)	131.4 (1.875)	134.2 (6.509)	32.3 (0.224)	103.3 (2.446)	113.1 (7.416)
Adjusted rate diff. (95% CI) per 100 PY	Ref	92.0 (88.3, 95.8)	94.9 (83.0, 107.2)	Ref	70.9 (65.9, 75.8)	80.8 (67.6, 96.8)
<b>Days in inpatient hospital</b>						
Adjusted rate (SE) per PY	7.0 (0.042)	21.9 (0.272)	26.0 (1.026)	6.6 (0.043)	21.2 (0.419)	24.6 (1.432)
Adjusted rate diff. (95% CI) per PY	Ref	14.9 (14.4, 15.5)	19.0 (17.2, 21.1)	Ref	14.6 (13.8, 15.4)	18.0 (15.4, 20.9)
<b>Observation unit encounters</b>						
Adjusted rate (SE) per 100 PY	23.3 (0.177)	48.7 (0.945)	38.4 (2.895)	17.5 (0.150)	38.4 (1.263)	31.8 (3.782)
Adjusted rate diff. (95% CI) per 100 PY	Ref	25.3 (23.4, 27.1)	15.1 (9.3, 20.8)	Ref	20.9 (18.5, 23.6)	14.3 (7.0, 21.9)
<b>Emergency department encounters</b>						
Adjusted rate (SE) per 100 PY	79.1 (0.466)	177.3 (2.350)	133.9 (6.717)	78.1 (0.406)	165.5 (3.359)	122.4 (9.867)
Adjusted rate diff. (95% CI) per 100 PY	Ref	98.1 (93.5, 102.8)	54.8 (41.8, 68.0)	Ref	87.4 (80.8, 94.0)	44.3 (25.3, 63.4)
<b>Outpatient encounters</b>						
Adjusted rate (SE) per 100 PY	997.0 (2.917)	1518.0 (12.743)	1624.5 (41.410)	892.7 (2.839)	1491.7 (20.387)	1500.9 (56.550)
Adjusted rate diff. (95% CI) per 100 PY	Ref	521.0 (495.3, 547.0)	627.5 (548.2, 710.5)	Ref	598.9 (555.9, 639.6)	608.2 (495.8, 717.4)
<b>Other institutional care visits</b>						
Adjusted rate (SE) per 100 PY	210.2 (0.905)	383.4 (4.143)	338.0 (15.426)	366.6 (1.118)	539.7 (7.617)	507.4 (23.266)
Adjusted rate diff. (95% CI) per 100 PY	Ref	173.1 (165.5, 181.9)	127.8 (98.0, 159.2)	Ref	173.2 (157.9, 188.2)	140.8 (100.2, 190.8)
<b>Outpatient cardiac rehabilitation encounters</b>						
Adjusted rate (SE) per 100 PY	700.9 (4.192)	123.1 (6.102)	414.3 (34.206)	21.2 (0.768)	6.9 (2.098)	15.4 (5.705)
Adjusted rate diff. (95% CI) per 100 PY	Ref	-577.8 (-592.3, -563.4)	-286.6 (-357.4, -220.2)	Ref	-14.4 (-18.6, -10.1)	-5.8 (-17.2, 4.2)
<b>Physician service encounters</b>						
Adjusted rate (SE) per 100 PY	3285.9 (6.346)	4370.4 (38.955)	4690.6 (146.003)	3370.9 (6.695)	4424.5 (62.302)	4858.7 (208.585)
Adjusted rate diff. (95% CI) per 100 PY	Ref	1084.5 (1010.8, 1166.5)	1404.7 (1128.4, 1703.3)	Ref	1053.5 (940.3, 1176.5)	1487.8 (1137.8, 1940.6)

**Supplemental Table 10 (continued).** All-cause healthcare resource utilization in the 1-year period after the index MATE, adjusted for age, sex, and race

	Venous thromboembolism			Critical limb ischemia		
	Non-ESKD	ICHHD	Home dialysis	Non-ESKD	ICHHD	Home dialysis
Number of patients in analysis	112,551	8238	572	15,626	6757	676
Inpatient hospital admissions						
Adjusted rate (SE) per 100 PY	113.4 (0.401)	318.3 (3.170)	304.1 (11.796)	150.9 (1.186)	350.6 (3.606)	444.8 (16.292)
Adjusted rate diff. (95% CI) per 100 PY	Ref	204.9 (198.8, 211.0)	190.7 (169.0, 215.6)	Ref	199.7 (192.5, 206.9)	293.9 (262.3, 326.4)
Inpatient hospital ICU admissions						
Adjusted rate (SE) per 100 PY	36.7 (0.198)	126.6 (1.908)	122.9 (7.042)	52.9 (0.657)	131.4 (2.182)	178.6 (10.827)
Adjusted rate diff. (95% CI) per 100 PY	Ref	89.8 (86.1, 93.6)	86.2 (72.4, 100.5)	Ref	78.5 (74.2, 83.3)	125.7 (105.8, 147.1)
Days in inpatient hospital						
Adjusted rate (SE) per PY	9.2 (0.044)	28.9 (0.390)	32.5 (1.657)	12.6 (0.134)	33.5 (0.443)	49.7 (2.468)
Adjusted rate diff. (95% CI) per PY	Ref	19.6 (18.9, 20.4)	23.3 (20.1, 26.5)	Ref	20.8 (19.9, 21.7)	37.0 (32.4, 42.2)
Observation unit encounters						
Adjusted rate (SE) per 100 PY	19.8 (0.132)	45.1 (1.028)	30.3 (2.821)	15.4 (0.294)	34.2 (0.977)	33.9 (3.910)
Adjusted rate diff. (95% CI) per 100 PY	Ref	25.3 (23.3, 27.4)	10.5 (4.9, 16.2)	Ref	18.9 (16.9, 20.8)	18.5 (10.6, 26.4)
Emergency department encounters						
Adjusted rate (SE) per 100 PY	88.8 (0.415)	174.5 (2.809)	124.8 (8.177)	73.4 (0.843)	146.2 (2.307)	127.1 (8.461)
Adjusted rate diff. (95% CI) per 100 PY	Ref	85.6 (79.8, 91.0)	35.9 (19.3, 51.9)	Ref	72.9 (68.2, 77.9)	53.7 (36.5, 69.8)
Outpatient encounters						
Adjusted rate (SE) per 100 PY	1206.7 (3.159)	1796.9 (16.422)	1622.0 (58.351)	1192.8 (8.617)	1801.3 (19.546)	1874.6 (62.129)
Adjusted rate diff. (95% CI) per 100 PY	Ref	590.1 (557.3, 621.5)	415.2 (292.6, 528.4)	Ref	608.5 (568.3, 651.8)	681.8 (557.0, 801.0)
Other institutional care visits						
Adjusted rate (SE) per 100 PY	253.3 (0.829)	434.7 (4.663)	409.9 (18.440)	369.3 (2.442)	626.5 (5.903)	674.4 (24.679)
Adjusted rate diff. (95% CI) per 100 PY	Ref	181.5 (172.1, 191.1)	156.7 (123.0, 196.5)	Ref	257.2 (245.7, 269.6)	305.1 (258.9, 356.6)
Outpatient cardiac rehabilitation encounters						
Adjusted rate (SE) per 100 PY	31.3 (0.783)	7.8 (1.418)	21.8 (9.075)	22.0 (1.629)	7.6 (2.074)	28.5 (11.634)
Adjusted rate diff. (95% CI) per 100 PY	Ref	-23.5 (-26.5, -20.4)	-9.6 (-28.0, 4.2)	Ref	-14.5 (-19.7, -9.6)	6.4 (-15.8, 25.3)
Physician service encounters						
Adjusted rate (SE) per 100 PY	3717.3 (6.264)	5041.9 (45.876)	6021.1 (222.899)	4261.1 (19.322)	5735.5 (63.315)	7152.6 (304.153)
Adjusted rate diff. (95% CI) per 100 PY	Ref	1324.7 (1236.8, 1418.1)	2303.8 (1887.2, 2770.9)	Ref	1474.4 (1349.2, 1605.2)	2891.5 (2322.1, 3551.8)

Abbreviations: CI, confidence interval; ESKD, end-stage kidney disease; ICHD, in-center hemodialysis; MATE, major adverse thrombotic event; PY, person-years; SE, standard error.



**Supplemental Figure 2.** Unadjusted all-cause per-person per-year (PPPY) Medicare payment costs in the 1-year period after the index MATE. Sources of costs <1.5% are suppressed due to small bar height.

**Supplemental Table 11.** Disease-specific healthcare costs (2019 USD in thousands) in the 1-year period after the index MATE, adjusted for age, sex, and race

	MATE cohort					
	Myocardial infarction			Ischemic stroke		
	Non-ESKD	ICHHD	Home dialysis	Non-ESKD	ICHHD	Home dialysis
Number of patients in analysis	73,616	9151	1039	76,747	4352	589
Total						
Adjusted PPPY cost (SE)	10.7 (0.052)	17.0 (0.246)	18.7 (1.033)	28.7 (0.107)	30.7 (0.547)	29.3 (1.613)
Adjusted PPPY cost diff. (95% CI)	Ref	6.3 (5.8, 6.8)	8.0 (6.0, 10.1)	Ref	2.0 (0.9, 3.1)	0.6 (-2.6, 3.7)
Inpatient hospital						
Adjusted PPPY cost (SE)	3.5 (0.037)	10.3 (0.202)	11.9 (0.760)	4.9 (0.047)	11.0 (0.313)	11.3 (1.072)
Adjusted PPPY cost diff. (95% CI)	Ref	6.8 (6.3, 7.1)	8.4 (7.0, 9.9)	Ref	6.1 (5.5, 6.7)	6.4 (4.3, 8.5)
Observation unit						
Adjusted PPPY cost (SE)	0.1 (0.002)	0.1 (0.007)	0.0 (1.4E51)	0.1 (0.002)	0.1 (0.008)	0.1 (0.140)
Adjusted PPPY cost diff. (95% CI)	Ref	0.0 (0.0, 0.0)	-0.0 (-0.0, 0.1)	Ref	0.0 (-0.0, 0.0)	0.0 (-0.0, 0.2)
Emergency department						
Adjusted PPPY cost (SE)	0.0 (0.001)	0.0 (0.002)	0.0 (--)	0.3 (0.001)	0.04 (2.1E14)	0.01 (0.003)
Adjusted PPPY cost diff. (95% CI)	Ref	0.0 (-0.0, 0.0)	-0.0 (-0.0, 0.0)	Ref	0.0 (0.0, 0.0)	-0.0 (-0.0, -0.0)
Outpatient						
Adjusted PPPY cost (SE)	0.7 (0.006)	0.4 (0.015)	0.4 (0.055)	1.3 (0.009)	0.8 (0.036)	0.5 (0.049)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.4 (-0.4, -0.3)	-0.3 (-0.4, -0.2)	Ref	-0.4 (-0.5, -0.3)	-0.8 (-0.9, -0.7)
Other institutional care						
Adjusted PPPY cost (SE)	3.5 (0.027)	4.3 (0.104)	4.0 (0.408)	19.2 (0.078)	16.4 (0.370)	14.5 (0.949)
Adjusted PPPY cost diff. (95% CI)	Ref	0.8 (0.6, 1.0)	0.6 (-0.2, 1.4)	Ref	-2.9 (-3.6, -2.1)	-4.7 (-6.5, -2.9)
Physician/laboratory services						
Adjusted PPPY cost (SE)	1.8 (0.006)	1.4 (0.016)	1.5 (0.059)	2.4 (0.007)	2.1 (0.064)	1.9 (0.097)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.4 (-0.4, -0.3)	-0.3 (-0.4, -0.1)	Ref	-0.3 (-0.4, -0.2)	-0.5 (-0.7, -0.3)
Durable medical equipment						
Adjusted PPPY cost (SE)	0.2 (0.004)	0.1 (0.009)	0.1 (0.027)	0.1 (0.002)	0.1 (0.013)	0.1 (0.023)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.1 (-0.1, -0.0)	-0.0 (-0.1, 0.0)	Ref	-0.0 (-0.0, 0.0)	-0.0 (-0.0, 0.0)
Prescription drug						
Adjusted PPPY cost (SE)	1.0 (0.005)	0.6 (0.012)	0.4 (0.022)	0.8 (0.004)	0.5 (0.015)	0.3 (0.030)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.4 (-0.4, -0.4)	-0.6 (-0.6, -0.6)	Ref	-0.4 (-0.4, -0.3)	-0.6 (-0.6, -0.5)

**Supplemental Table 11 (continued).** Disease-specific healthcare costs (2019 USD in thousands) in the 1-year period after the index MATE, adjusted for age, sex, and race

	Venous thromboembolism			Critical limb ischemia		
	Non-ESKD	ICHHD	Home dialysis	Non-ESKD	ICHHD	Home dialysis
Number of patients in analysis	112,551	8238	572	15,626	6757	676
<b>Total</b>						
Adjusted PPPY cost (SE)	9.0 (0.049)	12.1 (0.240)	14.3 (1.005)	31.9 (0.246)	66.7 (0.769)	65.0 (2.357)
Adjusted PPPY cost diff. (95% CI)	Ref	3.1 (2.6, 3.6)	5.4 (3.4, 7.3)	Ref	34.8 (33.2, 36.3)	33.0 (28.6, 37.8)
<b>Inpatient hospital</b>						
Adjusted PPPY cost (SE)	3.0 (0.038)	7.6 (0.211)	9.8 (0.911)	14.2 (0.166)	43.3 (0.595)	43.0 (1.858)
Adjusted PPPY cost diff. (95% CI)	Ref	4.6 (4.1, 5.0)	6.8 (5.1, 8.6)	Ref	29.2 (27.9, 30.3)	28.9 (25.1, 32.5)
<b>Observation unit</b>						
Adjusted PPPY cost (SE)	0.0 (0.001)	0.1 (0.007)	--	0.3 (0.010)	0.4 (0.025)	0.3 (0.033)
Adjusted PPPY cost diff. (95% CI)	Ref	0.0 (0.0, 0.0)	--	Ref	0.2 (0.1, 0.2)	0.0 (-0.1, 0.1)
<b>Emergency department</b>						
Adjusted PPPY cost (SE)	0.0 (0.000)	0.0 (0.002)	0.0 (3.8E43)	0.1 (0.002)	0.1 (0.005)	0.1 (0.007)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.0 (-0.0, 0.0)	-0.0 (-0.0, 0.0)	Ref	0.0 (0.0, 0.0)	-0.0 (-0.0, 0.0)
<b>Outpatient</b>						
Adjusted PPPY cost (SE)	0.6 (0.009)	0.5 (0.027)	0.3 (0.056)	2.5 (0.040)	3.6 (0.083)	2.5 (0.187)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.1 (-0.1, -0.0)	-0.3 (-0.4, -0.2)	Ref	1.1 (0.9, 1.3)	-0.0 (-0.4, 0.3)
<b>Other institutional care</b>						
Adjusted PPPY cost (SE)	3.1 (0.024)	2.9 (0.093)	3.2 (0.320)	11.1 (0.112)	15.3 (0.264)	14.1 (0.831)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.2 (-0.4, -0.0)	0.1 (-0.6, 0.7)	Ref	4.2 (3.7, 4.8)	3.0 (1.3, 4.6)
<b>Physician/laboratory services</b>						
Adjusted PPPY cost (SE)	0.8 (0.005)	0.5 (0.011)	0.5 (0.036)	3.4 (0.031)	4.1 (0.079)	3.9 (0.177)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.3 (-0.3, -0.3)	-0.2 (-0.3, -0.2)	Ref	0.8 (0.6, 0.9)	0.5 (0.1, 0.9)
<b>Durable medical equipment</b>						
Adjusted PPPY cost (SE)	0.0 (0.000)	0.0 (0.001)	0.0 (1.4E53)	0.1 (0.007)	0.1 (0.012)	0.2 (0.092)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.0 (-0.0, -0.0)	0.0 (-0.0, 0.1)	Ref	0.0 (0.0, 0.1)	0.1 (-0.0, 0.4)
<b>Prescription drug</b>						
Adjusted PPPY cost (SE)	1.5 (0.005)	0.6 (0.012)	0.4 (0.036)	0.7 (0.008)	0.3 (0.010)	0.2 (0.015)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.9 (-0.9, -0.9)	-1.1 (-1.1, -1.0)	Ref	-0.4 (-0.4, -0.4)	-0.6 (-0.6, -0.5)

Abbreviations: CI, confidence interval; ESKD, end-stage kidney disease; HD, hemodialysis; MATE, major adverse thrombotic event; PPPY, per person per year; SE, standard error; USD, United States dollars.

**Supplemental Table 12.** All-cause healthcare costs (2019 USD in thousands) in the 1-year period after the index MATE, adjusted for age, sex, and race

	MATE cohort					
	Myocardial infarction			Ischemic stroke		
	Non-ESKD	ICHHD	Home dialysis	Non-ESKD	ICHHD	Home dialysis
Number of patients in analysis	73,616	9151	1039	76,747	4352	589
<b>Total</b>						
Adjusted PPPY cost (SE)	41.8 (0.137)	89.1 (0.754)	72.6 (2.021)	52.7 (0.155)	90.3 (1.122)	71.0 (2.385)
Adjusted PPPY cost diff. (95% CI)	Ref	47.2 (45.8, 48.7)	30.7 (26.8, 34.7)	Ref	37.6 (35.4, 39.8)	18.2 (13.5, 23.0)
<b>Inpatient hospital</b>						
Adjusted PPPY cost (SE)	13.9 (0.082)	42.2 (0.483)	38.8 (1.401)	11.4 (0.076)	34.2 (0.619)	30.2 (1.641)
Adjusted PPPY cost diff. (95% CI)	Ref	28.3 (27.3, 29.2)	24.9 (22.1, 27.6)	Ref	22.8 (21.6, 24.0)	18.8 (15.6, 22.2)
<b>Observation unit</b>						
Adjusted PPPY cost (SE)	0.6 (0.008)	1.1 (0.027)	0.7 (0.079)	0.4 (0.004)	0.7 (0.026)	0.4 (0.050)
Adjusted PPPY cost diff. (95% CI)	Ref	0.4 (0.4, 0.5)	0.1 (-0.1, 0.2)	Ref	0.3 (0.3, 0.4)	0.0 (-0.1, 0.1)
<b>Emergency department</b>						
Adjusted PPPY cost (SE)	0.4 (0.003)	0.7 (0.013)	0.5 (0.034)	0.4 (0.002)	0.7 (0.019)	0.4 (0.034)
Adjusted PPPY cost diff. (95% CI)	Ref	0.4 (0.3, 0.4)	0.1 (-0.0, 0.1)	Ref	0.3 (0.3, 0.4)	0.0 (-0.1, 0.1)
<b>Outpatient</b>						
Adjusted PPPY cost (SE)	5.3 (0.029)	6.3 (0.083)	4.6 (0.220)	4.2 (0.022)	5.8 (0.129)	3.1 (0.169)
Adjusted PPPY cost diff. (95% CI)	Ref	1.0 (0.8, 1.2)	-0.8 (-1.2, -0.3)	Ref	1.7 (1.4, 1.9)	-1.1 (-1.5, -0.8)
<b>Other institutional care</b>						
Adjusted PPPY cost (SE)	9.7 (0.051)	14.7 (0.200)	10.7 (0.598)	25.3 (0.086)	25.8 (0.439)	21.3 (1.129)
Adjusted PPPY cost diff. (95% CI)	Ref	5.1 (4.7, 5.5)	1.0 (-0.1, 2.2)	Ref	0.5 (-0.3, 1.4)	-3.9 (-6.2, -1.7)
<b>Physician/laboratory services</b>						
Adjusted PPPY cost (SE)	8.9 (0.025)	19.3 (0.163)	14.4 (0.289)	8.5 (0.025)	19.0 (0.275)	13.0 (0.356)
Adjusted PPPY cost diff. (95% CI)	Ref	10.4 (10.1, 10.7)	5.6 (5.0, 6.1)	Ref	10.6 (10.0, 11.1)	4.6 (3.9, 5.3)
<b>Durable medical equipment</b>						
Adjusted PPPY cost (SE)	0.6 (0.007)	0.7 (0.020)	0.5 (0.037)	0.4 (0.005)	0.4 (0.021)	0.3 (0.032)
Adjusted PPPY cost diff. (95% CI)	Ref	0.1 (0.1, 0.2)	-0.1 (-0.2, -0.0)	Ref	0.0 (-0.0, 0.1)	-0.1 (-0.1, -0.0)
<b>Prescription drug</b>						
Adjusted PPPY cost (SE)	3.5 (0.027)	6.1 (0.110)	3.6 (0.189)	3.0 (0.027)	5.3 (0.189)	2.9 (0.201)
Adjusted PPPY cost diff. (95% CI)	Ref	2.6 (2.4, 2.8)	0.1 (-0.2, 0.5)	Ref	2.3 (1.9, 2.7)	-0.1 (-0.5, 0.3)

**Supplemental Table 12 (continued).** All-cause healthcare costs (2019 USD in thousands) in the 1-year period after the index MATE, adjusted for age, sex, and race

	Venous thromboembolism			Critical limb ischemia		
	Non-ESKD	ICHHD	Home dialysis	Non-ESKD	ICHHD	Home dialysis
Number of patients in analysis	112,551	8238	572	15,626	6757	676
<b>Total</b>						
Adjusted PPPY cost (SE)	47.9 (0.139)	103.2 (0.888)	76.0 (2.389)	66.6 (0.416)	119.0 (1.103)	97.6 (3.044)
Adjusted PPPY cost diff. (95% CI)	Ref	55.3 (53.6, 57.1)	28.1 (23.4, 32.9)	Ref	52.4 (50.0, 54.6)	31.0 (25.1, 37.4)
<b>Inpatient hospital</b>						
Adjusted PPPY cost (SE)	15.3 (0.080)	48.0 (0.647)	39.1 (1.745)	23.8 (0.239)	54.2 (0.675)	52.6 (2.198)
Adjusted PPPY cost diff. (95% CI)	Ref	32.7 (31.4, 34.0)	23.9 (20.5, 27.1)	Ref	30.4 (29.1, 31.9)	28.8 (24.6, 33.3)
<b>Observation unit</b>						
Adjusted PPPY cost (SE)	0.4 (0.003)	0.9 (0.028)	0.6 (0.105)	0.5 (0.013)	0.8 (0.031)	0.4 (0.036)
Adjusted PPPY cost diff. (95% CI)	Ref	0.6 (0.5, 0.6)	0.3 (0.1, 0.5)	Ref	0.3 (0.2, 0.4)	-0.1 (-0.2, -0.0)
<b>Emergency department</b>						
Adjusted PPPY cost (SE)	0.4 (0.002)	0.8 (0.017)	0.4 (0.036)	0.4 (0.005)	0.6 (0.013)	0.3 (0.027)
Adjusted PPPY cost diff. (95% CI)	Ref	0.4 (0.3, 0.4)	0.0 (-0.1, 0.1)	Ref	0.2 (0.2, 0.3)	-0.0 (-0.1, 0.0)
<b>Outpatient</b>						
Adjusted PPPY cost (SE)	5.7 (0.034)	8.5 (0.134)	3.8 (0.253)	6.3 (0.066)	7.7 (0.130)	4.5 (0.247)
Adjusted PPPY cost diff. (95% CI)	Ref	2.8 (2.6, 3.1)	-1.9 (-2.4, -1.4)	Ref	1.4 (1.2, 1.7)	-1.8 (-2.3, -1.3)
<b>Other institutional care</b>						
Adjusted PPPY cost (SE)	11.6 (0.048)	16.8 (0.214)	13.6 (0.712)	18.6 (0.154)	24.4 (0.313)	19.0 (0.911)
Adjusted PPPY cost diff. (95% CI)	Ref	5.3 (4.9, 5.7)	2.0 (0.6, 3.4)	Ref	5.8 (5.2, 6.4)	0.4 (-1.4, 2.2)
<b>Physician/laboratory services</b>						
Adjusted PPPY cost (SE)	9.3 (0.031)	22.5 (0.211)	14.9 (0.435)	12.1 (0.076)	25.1 (0.259)	17.4 (0.530)
Adjusted PPPY cost diff. (95% CI)	Ref	13.2 (12.8, 13.6)	5.6 (4.7, 6.5)	Ref	13.0 (12.5, 13.6)	5.4 (4.3, 6.4)
<b>Durable medical equipment</b>						
Adjusted PPPY cost (SE)	0.7 (0.008)	0.8 (0.038)	0.5 (0.075)	1.8 (0.034)	2.0 (0.051)	1.3 (0.130)
Adjusted PPPY cost diff. (95% CI)	Ref	0.1 (0.1, 0.2)	-0.1 (-0.3, 0.0)	Ref	0.2 (0.1, 0.3)	-0.5 (-0.7, -0.2)
<b>Prescription drug</b>						
Adjusted PPPY cost (SE)	5.4 (0.040)	6.7 (0.117)	0.4 (0.325)	4.1 (0.072)	5.6 (0.117)	2.8 (0.281)
Adjusted PPPY cost diff. (95% CI)	Ref	1.2 (1.0, 1.5)	-1.2 (-1.9, -0.6)	Ref	1.6 (1.3, 1.8)	-1.3 (-1.9, -0.8)

Abbreviations: CI, confidence interval; ESKD, end-stage kidney disease; HD, hemodialysis; MATE, major adverse thrombotic event; PPPY, per person per year; SE, standard error; USD, United States dollars.

**Supplemental Table 13.** Disease-specific healthcare costs (2019 USD in thousands) in the 1-year period after the index MATE, fully adjusted for age, sex, race, dual eligible status, individual Charlson comorbid conditions, Charlson comorbidity index, number of inpatient hospital admissions, and total healthcare costs in the baseline period

	MATE cohort					
	Myocardial infarction			Ischemic stroke		
	Non-ESKD	ICHHD	Home dialysis	Non-ESKD	ICHHD	Home dialysis
Number of patients in analysis	73,616	9151	1039	76,747	4352	589
Total						
Adjusted PPPY cost (SE)	10.7 (0.052)	15.5 (0.598)	20.3 (0.997)	28.7 (0.107)	29.4 (1.480)	28.9 (2.855)
Adjusted PPPY cost diff. (95% CI)	Ref	4.8 (3.6, 6.0)	9.6 (5.7, 13.5)	Ref	0.7 (-2.0, 3.8)	0.2 (-5.2, 5.9)
Inpatient hospital						
Adjusted PPPY cost (SE)	3.5 (0.038)	10.0 (0.436)	13.4 (1.221)	4.9 (0.046)	10.7 (0.605)	9.9 (1.601)
Adjusted PPPY cost diff. (95% CI)	Ref	6.5 (5.6, 7.3)	9.9 (7.8, 12.5)	Ref	5.9 (4.7, 7.1)	5.0 (2.3, 8.3)
Observation unit						
Adjusted PPPY cost (SE)	0.1 (0.002)	0.1 (0.0150)	0.0 (--)	0.1 (0.002)	0.1 (0.011)	0.1 (--)
Adjusted PPPY cost diff. (95% CI)	Ref	0.0 (-0.0, 0.0)	-0.0 (-0.0, 3.8E16)	Ref	-0.0 (-0.0, 0.0)	-0.0 (-0.1, 1.6E46)
Emergency department						
Adjusted PPPY cost (SE)	0.0 (0.001)	0.0 (0.005)	0.1 (--)	0.0 (0.001)	0.0 (0.012)	0.0 (--)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.0 (-0.0, 0.0)	0.0 (-0.0, 1.7E17)	Ref	0.0 (-0.0, 0.0)	-0.0 (-0.0, 7.0E5)
Outpatient						
Adjusted PPPY cost (SE)	0.7 (0.006)	0.3 (0.026)	0.3 (0.037)	1.3 (0.009)	0.9 (0.089)	0.3 (0.037)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.4 (-0.5, -0.4)	-0.4 (-0.5, -0.3)	Ref	-0.4 (-0.5, -0.2)	-0.9 (-1.0, -0.8)
Other institutional care						
Adjusted PPPY cost (SE)	3.5 (0.026)	4.1 (0.201)	4.8 (0.938)	19.3 (0.079)	16.2 (0.944)	15.4 (1.480)
Adjusted PPPY cost diff. (95% CI)	Ref	0.6 (0.3, 1.1)	1.3 (-0.4, 3.4)	Ref	-3.1 (-4.8, -1.1)	-3.9 (-6.9, -0.9)
Physician/laboratory services						
Adjusted PPPY cost (SE)	1.8 (0.006)	1.5 (0.044)	1.6 (0.084)	2.4 (0.007)	1.9 (0.089)	1.9 (0.120)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.3 (-0.4, -0.2)	-0.2 (-0.3, -0.0)	Ref	-0.5 (-0.7, -0.3)	-0.5 (-0.7, -0.3)
Durable medical equipment						
Adjusted PPPY cost (SE)	0.2 (0.004)	0.1 (0.066)	0.3 (1.3E6)	0.1 (0.002)	0.1 (0.046)	0.1 (0.067)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.0 (-0.1, 0.2)	0.2 (-0.1, 3.2E4)	Ref	0.0 (-0.0, 0.1)	-0.0 (-0.1, 0.1)
Prescription drug						
Adjusted PPPY cost (SE)	1.0 (0.004)	0.6 (0.028)	0.4 (0.044)	0.8 (0.004)	0.5 (0.037)	0.2 (0.039)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.4 (-0.5, -0.4)	-0.6 (-0.7, -0.5)	Ref	-0.4 (-0.4, -0.3)	-0.6 (-0.7, -0.5)

**Supplemental Table 13 (continued).** Disease-specific healthcare costs (2019 USD in thousands) in the 1-year period after the index MATE, fully adjusted for age, sex, race, dual eligible status, individual Charlson comorbid conditions, Charlson comorbidity index, number of inpatient hospital admissions, and total healthcare costs in the baseline period

	Venous thromboembolism			Critical limb ischemia		
	Non-ESKD	ICHHD	Home dialysis	Non-ESKD	ICHHD	Home dialysis
Number of patients in analysis	112,551	8238	572	15,626	6757	676
Total						
Adjusted PPPY cost (SE)	9.0 (0.049)	11.4 (0.549)	14.1 (1.665)	31.9 (0.246)	61.7 (1.580)	65.29 (3.383)
Adjusted PPPY cost diff. (95% CI)	Ref	2.4 (1.3, 3.5)	5.1 (2.0, 8.5)	Ref	29.8 (26.8, 33.0)	33.3 (26.5, 39.5)
Inpatient hospital						
Adjusted PPPY cost (SE)	3.0 (0.038)	7.5 (0.452)	9.7 (1.164)	14.0 (0.164)	40.2 (1.145)	41.1 (2.236)
Adjusted PPPY cost diff. (95% CI)	Ref	4.5 (3.6, 5.4)	6.7 (4.5, 8.9)	Ref	26.2 (24.1, 28.6)	27.1 (22.7, 31.6)
Observation unit						
Adjusted PPPY cost (SE)	0.0 (0.010)	0.0 (0.009)	--	0.3 (0.011)	0.4 (0.037)	0.2 (0.052)
Adjusted PPPY cost diff. (95% CI)	Ref	0.0 (0.0, 0.0)	--	Ref	0.1 (0.1, 0.2)	-0.0 (-0.1, 0.1)
Emergency department						
Adjusted PPPY cost (SE)	0.0 (0.000)	0.0 (0.004)	0.8 (--)	0.1 (0.002)	0.1 (0.018)	0.0 (0.010)
Adjusted PPPY cost diff. (95% CI)	Ref	0.0 (-0.0, 0.0)	0.7 (-0.0, 8.1E41)	Ref	0.0 (0.0, 0.1)	-0.0 (-0.0, 0.0)
Outpatient						
Adjusted PPPY cost (SE)	0.6 (0.009)	0.5 (0.045)	0.3 (0.383)	2.5 (0.039)	3.3 (0.168)	2.3 (0.275)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.1 (-0.2, 0.0)	-0.3 (-0.4, -0.1)	Ref	0.9 (0.6, 1.2)	-0.1 (-0.6, 0.5)
Other institutional care						
Adjusted PPPY cost (SE)	3.1 (0.025)	2.6 (0.178)	3.7 (5.066)	10.9 (0.111)	14.5 (0.526)	15.0 (1.202)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.5 (-0.8, -0.2)	0.5 (-0.6, 0.3)	Ref	3.7 (2.6, 4.7)	4.2 (2.0, 6.5)
Physician/laboratory services						
Adjusted PPPY cost (SE)	0.8 (0.005)	0.4 (0.025)	0.6 (0.055)	3.4 (0.031)	4.1 (0.129)	4.1 (0.310)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.3 (-0.4, -0.3)	-0.2 (-0.3, -0.1)	Ref	0.7 (0.4, 1.0)	0.7 (0.1, 1.3)
Durable medical equipment						
Adjusted PPPY cost (SE)	0.0 (0.000)	0.0 (5.7E12)	0.7 (1.4E53)	0.1 (0.007)	0.1 (0.034)	0.2 (0.106)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.0 (-0.0, 2.8E7)	0.7 (-0.1, 1.5)	Ref	0.1 (0.0, 0.1)	0.1 (-0.0, 0.3)
Prescription drug						
Adjusted PPPY cost (SE)	1.5 (0.004)	0.4 (0.020)	0.4 (0.053)	0.7 (0.008)	0.3 (0.017)	0.2 (0.023)
Adjusted PPPY cost diff. (95% CI)	Ref	-1.0 (-1.1, -1.0)	-1.1 (-1.1, -0.9)	Ref	-0.4 (-0.5, -0.4)	-0.6 (-0.6, -0.5)

Abbreviations: CI, confidence interval; ESKD, end-stage kidney disease; HD, hemodialysis; MATE, major adverse thrombotic event; PPPY, per person per year; SE, standard error; USD, United States dollars.

**Supplemental Table 14.** All-cause healthcare costs (2019 USD in thousands) in the 1-year period after the index MATE, fully adjusted for age, sex, race, dual eligible status, individual Charlson comorbid conditions, Charlson comorbidity index, number of inpatient hospital admissions, and total healthcare costs in the baseline period

	MATE cohort					
	Myocardial infarction			Ischemic stroke		
	Non-ESKD	ICHHD	Home dialysis	Non-ESKD	ICHHD	Home dialysis
Number of patients in analysis	73,616	9151	1039	76,747	4352	589
Total						
Adjusted PPPY cost (SE)	42.0 (0.138)	72.0 (1.565)	66.2 (3.186)	52.7 (0.155)	71.6 (2.347)	61.5 (3.309)
Adjusted PPPY cost diff. (95% CI)	Ref	30.1 (26.9, 33.2)	24.3 (18.4, 30.7)	Ref	18.9 (14.3, 23.7)	8.8 (2.4, 15.6)
Inpatient hospital						
Adjusted PPPY cost (SE)	13.5 (0.081)	38.1 (1.131)	36.06 (1.941)	11.2 (0.075)	30.0 (1.375)	25.9 (1.897)
Adjusted PPPY cost diff. (95% CI)	Ref	24.6 (22.6, 26.8)	22.5 (18.9, 26.4)	Ref	18.9 (16.2, 21.7)	14.7 (11.1, 18.6)
Observation unit						
Adjusted PPPY cost (SE)	0.6 (0.008)	1.0 (0.061)	0.8 (0.129)	0.4 (0.004)	0.6 (0.044)	0.3 (0.080)
Adjusted PPPY cost diff. (95% CI)	Ref	0.4 (0.3, 0.5)	0.2 (-0.0, 0.5)	Ref	0.2 (0.2, 0.3)	-0.0 (-0.2, 0.1)
Emergency department						
Adjusted PPPY cost (SE)	0.4 (0.003)	0.6 (0.020)	0.4 (0.045)	0.4 (0.002)	0.5 (0.028)	0.5 (0.121)
Adjusted PPPY cost diff. (95% CI)	Ref	0.2 (0.2, 0.3)	0.0 (-0.0, 0.1)	Ref	0.2 (0.1, 0.2)	0.1 (-0.1, 0.4)
Outpatient						
Adjusted PPPY cost (SE)	5.3 (0.029)	5.0 (0.155)	4.0 (0.334)	4.2 (0.022)	4.5 (0.241)	2.4 (0.192)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.3 (-0.6, -0.0)	-1.3 (-1.9, -0.6)	Ref	0.3 (-0.2, 0.8)	-1.8 (-2.1, -1.4)
Other institutional care						
Adjusted PPPY cost (SE)	9.4 (0.050)	13.8 (0.440)	11.6 (1.329)	25.3 (0.087)	25.7 (1.217)	21.3 (1.801)
Adjusted PPPY cost diff. (95% CI)	Ref	4.4 (3.6, 5.3)	2.2 (-0.4, 4.8)	Ref	0.4 (-1.9, 2.9)	-4.0 (-7.4, -0.6)
Physician/laboratory services						
Adjusted PPPY cost (SE)	8.9 (0.025)	15.7 (0.310)	13.2 (0.438)	8.5 (0.025)	14.8 (0.477)	11.5 (0.410)
Adjusted PPPY cost diff. (95% CI)	Ref	6.9 (6.2, 7.4)	4.4 (3.5, 5.2)	Ref	6.4 (5.4, 7.3)	3.0 (2.3, 3.9)
Durable medical equipment						
Adjusted PPPY cost (SE)	0.6 (0.007)	0.7 (0.0575)	0.5 (0.078)	0.4 (0.005)	0.4 (0.064)	0.3 (0.075)
Adjusted PPPY cost diff. (95% CI)	Ref	0.1 (-0.0, 0.2)	-0.1 (-0.3, 0.1)	Ref	-0.0 (-0.1, 0.1)	-0.1 (-0.2, 0.0)
Prescription drug						
Adjusted PPPY cost (SE)	3.4 (0.027)	3.2 (0.107)	2.5 (0.151)	2.9 (0.026)	3.2 (0.161)	2.1 (0.169)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.2 (-0.4, 0.0)	-0.9 (-1.2, -0.6)	Ref	0.3 (-0.0, 0.6)	-0.8 (-1.1, -0.4)

**Supplemental Table 14 (continued).** All-cause healthcare costs (2019 USD in thousands) in the 1-year period after the index MATE, fully adjusted for age, sex, race, dual eligible status, individual Charlson comorbid conditions, Charlson comorbidity index, number of inpatient hospital admissions, and total healthcare costs in the baseline period

	Venous thromboembolism			Critical limb ischemia		
	Non-ESKD	ICHHD	Home dialysis	Non-ESKD	ICHHD	Home dialysis
Number of patients in analysis	112,551	8238	572	15,626	6757	676
Total						
Adjusted PPPY cost (SE)	48.1 (0.139)	78.7 (1.369)	65.5 (3.319)	66.8 (0.417)	105.5 (2.042)	96.9 (4.373)
Adjusted PPPY cost diff. (95% CI)	Ref	30.6 (28.1, 33.2)	17.3 (10.7, 23.8)	Ref	38.7 (34.7, 42.6)	30.1 (21.5, 38.6)
Inpatient hospital						
Adjusted PPPY cost (SE)	14.6 (0.079)	39.2 (0.966)	35.9 (2.333)	23.4 (0.236)	49.7 (1.199)	49.8 (2.702)
Adjusted PPPY cost diff. (95% CI)	Ref	24.6 (22.6, 26.6)	21.3 (16.8, 25.9)	Ref	26.4 (24.2, 28.8)	26.4 (21.0, 31.8)
Observation unit						
Adjusted PPPY cost (SE)	0.3 (0.003)	1.0 (0.049)	1.3 (139.682)	0.5 (0.013)	0.7 (0.050)	0.3 (0.041)
Adjusted PPPY cost diff. (95% CI)	Ref	0.6 (0.5, 0.7)	1.0 (0.2, 20.0)	Ref	0.3 (0.2, 0.4)	-0.1 (-0.2, -0.0)
Emergency department						
Adjusted PPPY cost (SE)	0.4 (0.002)	0.7 (0.028)	0.4 (0.074)	0.3 (0.005)	0.5 (0.027)	0.4 (0.041)
Adjusted PPPY cost diff. (95% CI)	Ref	0.3 (0.3, 0.4)	-0.0 (-0.1, 0.1)	Ref	0.2 (0.1, 0.2)	0.0 (-0.0, 0.1)
Outpatient						
Adjusted PPPY cost (SE)	5.6 (0.034)	8.0 (0.251)	3.4 (0.330)	6.3 (0.065)	7.1 (0.267)	4.6 (0.396)
Adjusted PPPY cost diff. (95% CI)	Ref	2.4 (1.9, 2.9)	-2.3 (-3.0, -1.6)	Ref	0.8 (0.3, 1.3)	-1.7 (-2.4, -0.8)
Other institutional care						
Adjusted PPPY cost (SE)	11.3 (0.048)	14.4 (0.417)	13.8 (1.266)	18.3 (0.152)	23.7 (0.667)	20.6 (1.434)
Adjusted PPPY cost diff. (95% CI)	Ref	3.1 (2.3, 4.0)	2.5 (0.0, 5.0)	Ref	5.5 (4.1, 6.8)	2.3 (-0.5, 5.2)
Physician/laboratory services						
Adjusted PPPY cost (SE)	9.3 (0.031)	17.5 (0.316)	12.7 (0.527)	12.1 (0.076)	22.1 (0.424)	17.3 (0.832)
Adjusted PPPY cost diff. (95% CI)	Ref	8.2 (7.6, 8.8)	3.4 (2.3, 4.4)	Ref	10.0 (9.2, 10.9)	5.2 (3.6, 6.8)
Durable medical equipment						
Adjusted PPPY cost (SE)	0.6 (0.008)	0.6 (0.056)	0.4 (0.054)	1.8 (0.035)	1.8 (0.115)	1.3 (0.196)
Adjusted PPPY cost diff. (95% CI)	Ref	-0.0 (-0.1, 0.1)	-0.2 (-0.3, -0.1)	Ref	0.1 (-0.2, 0.3)	-0.5 (-0.8, -0.0)
Prescription drug						
Adjusted PPPY cost (SE)	5.3 (0.040)	4.2 (0.137)	3.1 (0.200)	4.0 (0.072)	3.8 (0.144)	2.3 (0.216)
Adjusted PPPY cost diff. (95% CI)	Ref	-1.2 (-1.4, -0.9)	-2.2 (-2.6, -1.8)	Ref	-0.2 (-0.5, 0.1)	-1.7 (-2.1, -1.2)

Abbreviations: CI, confidence interval; ESKD, end-stage kidney disease; HD, hemodialysis; MATE, major adverse thrombotic event; PPPY, per person per year; SE, standard error; USD, United States dollars.

**Supplemental Item 2.** List of ICD-10-CM diagnosis codes and ICD-10-PCS procedure codes used to identify critical limb ischemia events**Diagnosis codes (category 1)** (atherosclerosis of native arteries of extremities)

**ICD-10-CM:** E0852, E0952, E1052, E1152, E1352, I70221, I70222, I70223, I70228, I70229, I70231, I70232, I70233, I70234, I70235, I70238, I70239, I70241, I70242, I70243, I70244, I70245, I70248, I70249, I7025, I70261, I70262, I70263, I70268, I70269, I70321, I70322, I70323, I70328, I70329, I70331, I70332, I70333, I70334, I70335, I70338, I70339, I70341, I70342, I70343, I70344, I70345, I70348, I70349, I7035, I70361, I70362, I70363, I70368, I70369, I70421, I70422, I70423, I70428, I70429, I70431, I70432, I70433, I70434, I70435, I70438, I70439, I70441, I70442, I70443, I70444, I70445, I70448, I70449, I7045, I70461, I70462, I70463, I70468, I70469, I70521, I70522, I70523, I70528, I70529, I70531, I70532, I70533, I70534, I70535, I70538, I70539, I70541, I70542, I70543, I70544, I70545, I70548, I70549, I7055, I70561, I70562, I70563, I70568, I70569, I70621, I70622, I70623, I70628, I70629, I70631, I70632, I70633, I70634, I70635, I70638, I70639, I70641, I70642, I70643, I70644, I70645, I70648, I70649, I7065, I70661, I70662, I70663, I70668, I70669, I70721, I70722, I70723, I70728, I70729, I70731, I70732, I70733, I70734, I70735, I70738, I70739, I70741, I70742, I70743, I70744, I70745, I70748, I70749, I7075, I70761, I70762, I70763, I70768, I70769

**Diagnosis codes (category 2)** (peripheral artery disease)

**ICD-10-CM:** E0851, E0951, E1051, E1151, E1351, I70201, I70202, I70203, I70208, I70209, I70211, I70212, I70213, I70218, I70219, I70291, I70292, I70293, I70298, I70299, I70301, I70302, I70303, I70308, I70309, I70311, I70312, I70313, I70318, I70319, I70391, I70392, I70393, I70398, I70399, I70401, I70402, I70403, I70408, I70409, I70411, I70412, I70413, I70418, I70419, I70491, I70492, I70493, I70498, I70499, I70501, I70502, I70503, I70508, I70509, I70511, I70512, I70513, I70518, I70519, I70591, I70592, I70593, I70598, I70599, I70601, I70602, I70603, I70608, I70609, I70611, I70612, I70613, I70618, I70619, I70691, I70692, I70693, I70698, I70699, I70701, I70702, I70703, I70708, I70709, I70711, I70712, I70713, I70718, I70719, I70791, I70792, I70793, I70798, I70799, I7090, I7091, I731, I739, I743, I744, I745

**Diagnosis codes (category 3)** (gangrene, chronic ulcer, osteomyelitis, or cellulitis of the lower extremity)

**ICD-10-CM:** I7301, I96, L02415, L02416, L02419, L02611, L02612, L02619, L03031, L03032, L03039, L03041, L03042, L03049, L03115, L03116, L03119, L03125, L03126, L03129, L97101, L97102, L97103, L97104, L97105, L97106, L97108, L97109, L97111, L97112, L97113, L97114, L97115, L97116, L97118, L97119, L97121, L97122, L97123, L97124, L97125, L97126, L97128, L97129, L97201, L97202, L97203, L97204, L97205, L97206, L97208, L97209, L97211, L97212, L97213, L97214, L97215, L97216, L97218, L97219, L97221, L97222, L97223, L97224, L97225, L97226, L97228, L97229, L97301, L97302, L97303, L97304, L97305, L97306, L97308, L97309, L97311, L97312, L97313, L97314, L97315, L97316, L97318, L97319, L97321, L97322, L97323, L97324, L97325, L97326, L97328, L97329, L97401, L97402, L97403, L97404, L97405, L97406, L97408, L97409, L97411, L97412, L97413, L97414, L97415, L97416, L97418, L97419, L97421, L97422, L97423, L97424, L97425, L97426, L97428, L97429, L97501, L97502, L97503, L97504, L97505, L97506, L97508, L97509, L97511, L97512, L97513, L97514, L97515, L97516, L97518, L97519, L97521, L97522, L97523, L97524, L97525, L97526, L97528, L97529, L97801, L97802, L97803, L97804, L97805, L97806, L97808, L97809, L97811, L97812, L97813, L97814, L97815, L97816, L97818, L97819, L97821, L97822, L97823, L97824, L97825, L97826, L97828, L97829, L97901, L97902, L97903, L97904, L97905, L97906, L97908, L97909, L97911, L97912, L97913, L97914, L97915, L97916, L97918, L97919, L97921, L97922, L97923, L97924, L97925, L97926, L97928, L97929, M86051, M86052, M86059, M86061, M86062, M86069, M86071, M86072, M86079, M86151, M86152, M86159, M86161, M86162, M86169, M86171, M86172, M86179, M86251, M86252, M86259, M86261, M86262, M86269, M86271, M86272, M86279, M86351, M86352, M86359, M86361, M86362, M86369, M86371, M86372, M86379, M86451, M86452, M86459, M86461, M86462, M86469, M86471, M86472, M86479, M86551, M86552, M86559, M86561, M86562, M86569, M86571, M86572, M86579, M86651, M86652, M86659, M86661, M86662, M86669, M86671, M86672, M86679, M868X5, M868X6, M868X7

**Procedure codes** (revascularization or major amputation)

**ICD-10-PCS:** 0312090, 0312091, 0312092, 0312093, 0312094, 0312095, 0312096, 0312097, 0312098, 0312099, 031209B, 031209C, 03120A0, 03120A1, 03120A2, 03120A3, 03120A4, 03120A5, 03120A6, 03120A7, 03120A8, 03120A9, 03120AB, 03120AC, 03120J0, 03120J1, 03120J2, 03120J3, 03120J4, 03120J5, 03120J6, 03120J7, 03120J8, 03120J9, 03120JB, 03120JC, 03120K0, 03120K1, 03120K2, 03120K3, 03120K4, 03120K5, 03120K6, 03120K7, 03120K8, 03120K9, 03120KB, 03120KC, 03120Z0, 03120Z1, 03120Z2, 03120Z3, 03120Z4, 03120Z5, 03120Z6, 03120Z7, 03120Z8, 03120Z9, 03120ZB, 03120ZC, 0313090, 0313091, 0313092, 0313093, 0313094, 0313095, 0313096, 0313097, 0313098, 0313099, 031309B, 031309C, 03130A0, 03130A1, 03130A2, 03130A3, 03130A4, 03130A5, 03130A6, 03130A7, 03130A8, 03130A9, 03130AB, 03130AC, 03130J0, 03130J1, 03130J2, 03130J3, 03130J4, 03130J5, 03130J6, 03130J7, 03130J8, 03130J9, 03130JB, 03130JC, 03130K0, 03130K1, 03130K2, 03130K3, 03130K4, 03130K5, 03130K6, 03130K7, 03130K8, 03130K9, 03130KB, 03130KC, 03130Z0, 03130Z1, 03130Z2, 03130Z3, 03130Z4, 03130Z5, 03130Z6, 03130Z7, 03130Z8, 03130Z9, 03130ZB, 03130ZC, 0314090, 0314091, 0314092, 0314093, 0314094, 0314095, 0314096, 0314097, 0314098, 0314099, 031409B, 031409C, 03140A0, 03140A1, 03140A2, 03140A3, 03140A4, 03140A5, 03140A6, 03140A7, 03140A8, 03140A9, 03140AB, 03140AC, 03140J0, 03140J1, 03140J2, 03140J3, 03140J4, 03140J5, 03140J6, 03140J7, 03140J8, 03140J9, 03140JB, 03140JC, 03140K0, 03140K1, 03140K2, 03140K3, 03140K4, 03140K5, 03140K6, 03140K7, 03140K8, 03140K9, 03140KB, 03140KC, 03140Z0, 03140Z1, 03140Z2, 03140Z3, 03140Z4, 03140Z5, 03140Z6, 03140Z7, 03140Z8, 03140Z9, 03140ZB, 03140ZC, 0315090, 0315091, 0315092, 0315093, 0315094, 0315095, 0315096, 0315097, 0315098, 0315099, 031509B, 031509C, 03150A0, 03150A1, 03150A2, 03150A3, 03150A4, 03150A5, 03150A6, 03150A7, 03150A8, 03150A9, 03150AB, 03150AC, 03150J0, 03150J1, 03150J2, 03150J3, 03150J4, 03150J5, 03150J6, 03150J7, 03150J8, 03150J9, 03150JB, 03150JC, 03150K0, 03150K1, 03150K2, 03150K3, 03150K4, 03150K5, 03150K6, 03150K7, 03150K8, 03150K9, 03150KB, 03150KC, 03150Z0, 03150Z1, 03150Z2, 03150Z3, 03150Z4, 03150Z5, 03150Z6, 03150Z7, 03150Z8, 03150Z9, 03150ZB, 03150ZC, 0316090, 0316091, 0316092, 0316093, 0316094, 0316095, 0316096, 0316097, 0316098, 0316099, 031609B, 031609C, 03160A0, 03160A1, 03160A2, 03160A3, 03160A4, 03160A5, 03160A6, 03160A7, 03160A8, 03160A9, 03160AB, 03160AC, 03160J0, 03160J1, 03160J2, 03160J3, 03160J4, 03160J5, 03160J6, 03160J7, 03160J8, 03160J9, 03160JB, 03160JC, 03160K0, 03160K1, 03160K2, 03160K3, 03160K4, 03160K5, 03160K6, 03160K7, 03160K8, 03160K9, 03160KB, 03160KC, 03160Z0, 03160Z1, 03160Z2, 03160Z3, 03160Z4, 03160Z5, 03160Z6, 03160Z7, 03160Z8, 03160Z9, 03160ZB, 03160ZC, 0317090, 0317093, 03170A0, 03170A3, 03170J0, 03170J3, 03170K0, 03170K3, 03170Z0, 03170Z3, 0318091, 0318094, 03180A1, 03180A4, 03180J1, 03180J4, 03180K1, 03180K4, 03180Z1, 03180Z4, 0319093, 03190A3, 03190J3, 03190K3, 03190Z3, 031A094, 031A0A4, 031A0J4, 031A0K4, 031A0Z4, 031B093, 031B0A3, 031B0J3, 031B0K3, 031B0Z3, 031C094, 031C0A4, 031C0J4, 031C0K4, 031C0Z4, 0370046, 037004Z, 0370056, 037005Z, 0370066, 037006Z, 0370076,









04RV47Z, 04RV4JZ, 04RV4KZ, 04RW07Z, 04RW0JZ, 04RW0KZ, 04RW47Z, 04RW4JZ, 04RW4KZ, 04RY07Z, 04RY0JZ, 04RY0KZ, 04RY47Z, 04RY4JZ, 04RY4KZ, 0X600ZZ, 0X610ZZ, 0X620ZZ, 0X630ZZ, 0X680Z1, 0X680Z2, 0X680Z3, 0X690Z1, 0X690Z2, 0X690Z3, 0X6B0ZZ, 0X6C0ZZ, 0X6D0Z1, 0X6D0Z2, 0X6D0Z3, 0X6F0Z1, 0X6F0Z2, 0X6F0Z3, 0X6J0Z0, 0X6J0Z4, 0X6J0Z5, 0X6J0Z6, 0X6J0Z7, 0X6J0Z8, 0X6J0Z9, 0X6J0ZB, 0X6J0ZC, 0X6J0ZD, 0X6J0ZF, 0X6K0Z0, 0X6K0Z4, 0X6K0Z5, 0X6K0Z6, 0X6K0Z7, 0X6K0Z8, 0X6K0Z9, 0X6K0ZB, 0X6K0ZC, 0X6K0ZD, 0X6K0ZF, 0X6L0Z0, 0X6L0Z1, 0X6L0Z2, 0X6L0Z3, 0X6M0Z0, 0X6M0Z1, 0X6M0Z2, 0X6M0Z3, 0X6N0Z0, 0X6N0Z1, 0X6N0Z2, 0X6N0Z3, 0X6P0Z0, 0X6P0Z1, 0X6P0Z2, 0X6P0Z3, 0X6Q0Z0, 0X6Q0Z1, 0X6Q0Z2, 0X6Q0Z3, 0X6R0Z0, 0X6R0Z1, 0X6R0Z2, 0X6R0Z3, 0X6S0Z0, 0X6S0Z1, 0X6S0Z2, 0X6S0Z3, 0X6T0Z0, 0X6T0Z1, 0X6T0Z2, 0X6T0Z3, 0X6V0Z0, 0X6V0Z1, 0X6V0Z2, 0X6V0Z3, 0X6W0Z0, 0X6W0Z1, 0X6W0Z2, 0X6W0Z3, 0Y620ZZ, 0Y630ZZ, 0Y640ZZ, 0Y670ZZ, 0Y680ZZ, 0Y6C0Z1, 0Y6C0Z2, 0Y6C0Z3, 0Y6D0Z1, 0Y6D0Z2, 0Y6D0Z3, 0Y6F0ZZ, 0Y6G0ZZ, 0Y6H0Z1, 0Y6H0Z2, 0Y6H0Z3, 0Y6J0Z1, 0Y6J0Z2, 0Y6J0Z3, 0Y6M0Z0, 0Y6M0Z4, 0Y6M0Z5, 0Y6M0Z6, 0Y6M0Z7, 0Y6M0Z8, 0Y6M0Z9, 0Y6M0ZB, 0Y6M0ZC, 0Y6M0ZD, 0Y6M0ZF, 0Y6N0Z0, 0Y6N0Z4, 0Y6N0Z5, 0Y6N0Z6, 0Y6N0Z7, 0Y6N0Z8, 0Y6N0Z9, 0Y6N0ZB, 0Y6N0ZC, 0Y6N0ZD, 0Y6N0ZF, 0Y6P0Z0, 0Y6P0Z1, 0Y6P0Z2, 0Y6P0Z3, 0Y6Q0Z0, 0Y6Q0Z1, 0Y6Q0Z2, 0Y6Q0Z3, 0Y6R0Z0, 0Y6R0Z1, 0Y6R0Z2, 0Y6R0Z3, 0Y6S0Z0, 0Y6S0Z1, 0Y6S0Z2, 0Y6S0Z3, 0Y6T0Z0, 0Y6T0Z1, 0Y6T0Z2, 0Y6T0Z3, 0Y6U0Z0, 0Y6U0Z1, 0Y6U0Z2, 0Y6U0Z3, 0Y6V0Z0, 0Y6V0Z1, 0Y6V0Z2, 0Y6V0Z3, 0Y6W0Z0, 0Y6W0Z1, 0Y6W0Z2, 0Y6W0Z3, 0Y6X0Z0, 0Y6X0Z1, 0Y6X0Z2, 0Y6X0Z3, 0Y6Y0Z0, 0Y6Y0Z1, 0Y6Y0Z2, 0Y6Y0Z3

ICD-10-CM/PCS: International Classification of Diseases, 10th Revision, Clinical Modification/Procedure Coding System