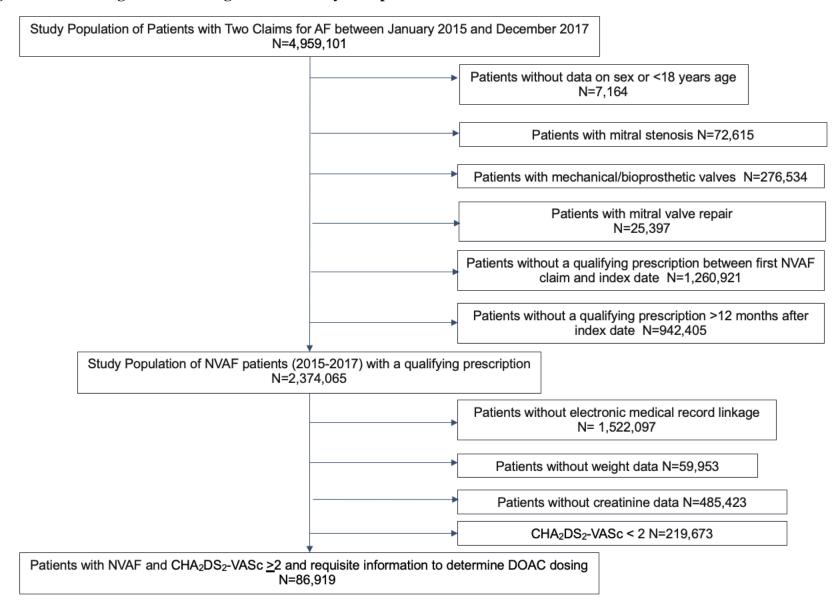
Supplemental Online Content

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This supplemental material has been provided by the authors to give readers additional information about their work.

eFigure. Consort Diagram Describing the Final Analytic Population



eTable 1. Dosing Definitions Used for Various Oral Anticoagulants

	Off-Label Underdosing not consistent with FDA recommendations Apixaban <10 mg daily and <2 of the ABC criteria are fulfilled* • Individuals receiving >5 twice daily		Appropriate Reduced Dose	Appropriate Full Dose Apixaban 10 mg daily and <2 of the ABC criteria are fulfilled*	
Apixaban			5 mg daily and at least 2 of the ABC criteria are fulfilled*		
Rivaroxaban	<20 mg daily and CrCl <u>></u> 50 ml/min	 >15 mg daily and a CrCl<50 ml/min Individuals receiving >20 mg daily 	15 mg daily and CrCl ≤50 ml/min	20 mg daily and CrCl ≥50 ml/min	
Dabigatran	<300 mg daily and CrCl≥30 ml/min	 >150 mg daily and a CrCl<30 ml/min Individuals receiving more than 150 mg twice daily 	150 mg daily and CrCl ≥15 ml/min but less than ≤30 ml/min	300 mg daily and CrCl > 30 ml/min	
Edoxaban	 doxaban <60 mg daily and CrCl ≥50 ml/min >30 mg daily and CrCl<50 ml/min Individuals receiving more 60 mg daily 		30 mg daily and CrCl≥15 ml/min but ≤50 ml/min	60 mg daily and CrCl >50 ml/min but <95 ml/min	

^{*}ABC criteria: age≥80 years, body weight ≤60 kg, and creatinine ≥1.5 mg/dL. CrCl, creatinine clearance.

eTable 2. Diagnosis Codes Used for Bleeding and Stroke/TIA Outcomes

Outcome	Codes		
Stroke/TIA	438.2, I69.113, I69.328, I65.21, 435.2, I66.03, I61.3, I69.01, I66.29,		
	I66.02, I69.192, I69.934, I69.119, I69.198, I63.6, I69.318, I69.292,		
	I66.12, I63.519, G46.1, 433, I63.111, 433.8, I69.864, I69.128, I63.02,		
	I69.110, I63.219, I66.21, I69.121, I67.858, I69.343, I60.11, I66.22,		
	169.052, 165.1, 169.890, 434.1, 437.7, 169.194, 169.212		
Bleeding	intracranial (430, 431, 432.x, 852.x, 853.x, 800.2x, 800.3x,		
Brooms	800.7x, 800.8x, 801.2x, 801.3x, 801.7x, 801.8x, 803.2x, 803.3x, 803.7x,		
	803.8x, 804.2x, 804.3x, 804.7x, 804.8x) or extra-cranial (423.0, 456.0,		
	456.20, 459.0, 530.21, 530.7, 530.82, 531.0x, 531.2x, 531.4x, 531.6x,		
	532.0x, 532.2x, 532.4x, 532.6x, 533.0x, 533.2x, 533.4x, 533.6x, 534.0x,		
	534.2x, 534.4x, 534.6x, 535.01, 535.11, 535.21, 535.31, 535.41, 535.51,		
	535.61, 535.71, 537.83, 537.84, 562.02, 562.03, 562.12, 562.13, 568.81,		
	569.3, 569.85, 578.x, 596.7, 599.71, 719.1x, 784.8, 786.3)		

TIA, transient ischemic attack.

eTable 3. Covariates Adjusted for During Statistical Analysis

Covariates adjusted for in the multivariable logistic regression models examining factors associated with underdosed and excess-dosed DOACs	Age, sex, race, weight, ethnicity, median income, payor (i.e. private, government, uninsured), hypertension, coronary artery disease, peripheral artery disease, prior congestive heart failure (CHF), recent percutaneous coronary intervention (PCI) within 6 months, prior coronary artery bypass graft (CABG), recent thromboembolism within 6 months, liver disease, dementia, diabetes, prior cerebral vascular accident (CVA) or transient ischemic attack (TIA), hospitalization for bleeding, hospitalization for fall, prior intracranial hemorrhage, anemia, dialysis, prescriber specialty.
Covariates adjusted for in the multivariate logistic regression with CrCL as a continuous independent variable	Age, sex, race, weight, ethnicity, median income, payor (i.e. private, government, uninsured), hypertension, coronary artery disease, peripheral artery disease, prior congestive heart failure (CHF), recent percutaneous coronary intervention (PCI) within 6 months, prior coronary artery bypass graft (CABG), , liver disease, dementia, diabetes, prior cerebral vascular accident (CVA) or transient ischemic attack (TIA), hospitalization for bleeding, prior intracranial hemorrhage, anemia, dialysis.

CrCl, creatinine clearance; DOACs, direct oral anticoagulants.

eTable 4. Proportion of Patients on Various Oral Anticoagulant Medications by CHA2DS2-VASc Score

CHA2DS2- VASc score	N	No Anticoagulation (N=1,002,358) %	Warfarin (N=521,052) %	Apixaban (N=454,622) %	Rivaroxaban (N=311,689)	Dabigatran (N=80,615) %	Edoxaban (N=3,729) %
0	49,889	3.5	0.6	1.2	1.7	0.8	1.6
1	159,675	9.8	2.7	5.1	6.5	4.6	7.7
2	277,847	13.1	8.2	11.2	13.7	11.7	15.7
3	400,272	16.4	16.4	16.7	18.8	18.3	18.4
4	461,161	18.0	21.8	19.4	19.8	20.6	18.7
5	397,077	15.0	19.8	17.3	16.0	17.4	15.7
6	300,102	11.5	14.8	13.5	11.6	13.1	10.9
7	197,898	7.7	9.5	9.2	7.3	8.2	7.2
8	102,670	4.0	4.9	5.0	3.6	4.1	3.1
9	27,474	1.1	1.2	1.4	1.0	1.0	1.0