Supplementary material

Oral anticoagulants, time in therapeutic range, and renal function over time in real-life patients with atrial fibrillation and chronic kidney disease

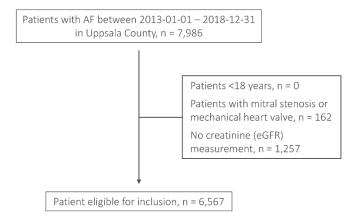
Gorav Batra (MD, PhD), Angelo Modica (MD, PhD), Henrik Renlund (MSc), Anders Larsson (MD, PhD), Christina Christersson (MD, PhD), Claes Held (MD, PhD) **Supplementary Table S1.** The International Code of Disease, tenth revision (ICD-10) and the Anatomical Therapeutic Chemical (ATC) codes applied to identify comorbidities and comedication

Variable	Data source	ICD-10 / ATC code		
Age	AuriculA	-		
Sex	AuriculA	-		
Hypertension	NPR	110, 111, 112, 113, 115		
Diabetes mellitus	NPR	E10, E11, E12, E13, E14		
Prior stroke	NPR	160, 161, 163, 164		
Prior TIA	NPR	G45		
Prior systemic embolism	NPR	174		
Prior MI	NPR	121, 122, 123, 1252		
Prior PCI or CABG	NPR	Z951, Z955		
Heart failure	NPR	I42, I50, I110, I255, I130, I132, K761		
Peripheral vascular disease	NPR	170, 171, 172, 173		
COPD	NPR	J43, J44		
Cancer (within 3 years)	NPR	С		
Prior major bleeding	NPR	160, 161, 162, S064, S065, S066, K226, K250, K252, K254, K256, K260		
, ,		K262, K264, K266, K270, K272, K274, K276, K280, K282, K284, K286		
		K290, K625, K661, K920, K921, K922, I850, I983, N02, R319, N939,		
		N950, N501A, H113, H313, H356, H431, H450, H922, I312, J942,		
		M250, R04, R58, T810, D500, D629, T792		
CHA ₂ DS ₂ -VASc score	AuriculA, NPR	1 point each for: heart failure, hypertension, age 65- 74 years, diabetes		
	,	vascular disease, female sex; 2 points each for 75 years,		
		thromboembolism.		
Creatinine/eGFR	AuriculA	-		
INR	AuriculA	_		
Warfarin	AuriculA	_		
DOAC	AuriculA	_		
Dabigatran etexilate	AuriculA	_		
Rivaroxaban	AuriculA	_		
Apixaban	AuriculA	_		
Edoxaban	AuriculA	_		
Other OAC	AuriculA	_		
Acetylsalicylic acid		D044000		
P2Y ₁₂ inhibitor	Prescribed Drug Register Prescribed Drug Register	B01AC06 B01AC04, B01AC05, B01AC22, B01AC24		

eGFR levels are based on the Chronic Kidney Disease Epidemiology Collaboration (CKD-EPI) equation.

Abbreviations: CABG, coronary artery bypass grafting; COPD, chronic obstructive pulmonary disease; DOAC, direct oral anticoagulants; eGFR, estimated glomerular filtration rate; INR, international normalised ratio; MI, myocardial infarction; NPR, National Patient Register; OAC, oral anticoagulants; PCI, percutaneous coronary intervention; TIA, transient ischaemic attack; TTR, time in therapeutic range.

Supplementary Figure S1. Consort diagram illustrating inclusion and exclusion of patients



Supplementary Table S2. CKD stage at baseline (columns) and at end of follow-up (rows)

Baseline/ End follow-up	eGFR ≥90 (n = 364)	eGFR 60-89 (n = 2,384)	eGFR 30-59 (n =1,197)	eGFR 15-29 (n = 94)	eGFR <15/ dialysis (n = 16)
eGFR ≥90	201 (55.2)	87 (3.7)	2 (0.2)	0 (0.0)	0 (0.0)
eGFR 60-89	152 (41.8)	1712 (71.8)	175 (14.6)	3 (3.2)	0 (0.0)
eGFR 30-59	11 (3.0)	561 (23.5)	881 (73.6)	24 (25.5)	4 (25.0)
eGFR 15-29	0 (0.0)	21 (0.9)	132 (11.0)	48 (51.1)	3 (18.8)
eGFR <15/dialysis	0 (0.0)	3 (0.1)	7 (0.6)	19 (20.2)	9 (56.3)

eGFR levels are based on the Chronic Kidney Disease Epidemiology Collaboration (CKD-EPI) equation.

Abbreviations: eGFR, estimated glomerular filtration rate

Supplementary Figure S2. Median change in eGFR over time in patients treated with (A) warfarin and (B) DOAC

