

1 **Table S1. Overlap of cognitive impairment and frailty at different levels of severity of**  
 2 **cognitive impairment**

MoCA Cutpoint	No Impairment N (%)	CI & Frailty N (%)	CI Only N (%)	Frailty Only N (%)
23	652 (52)	108 (9)	420 (34)	64 (5)
22	742 (60)	93 (7)	330 (27)	79 (6)
21	821 (66)	73 (6)	251 (20)	99 (8)
20	884 (71)	56 (5)	188 (15)	116 (9)

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5 **Table S2. Odds of OAC treatment and receiving DOAC in relation to frailty and cognitive**  
 6 **impairment among older patients with paroxysmal atrial fibrillation, SAGE-AF 2016-2018**  
 7 **(N=741)**

	Odds ratio (95% confidence interval)	Odds of <u>not</u> receiving OAC treatment (N=741)		
		Unadjusted	Model 1	Model 2
	<b>On OAC n (%)</b>			
<b>No impairment</b>	318 (82.0)	referent	referent	referent
<b>Frailty</b>	31 (77.5)	1.32 (0.60, 2.89)	1.94 (0.85, 4.41)	2.00 (0.83, 4.83)
<b>CI</b>	200 (78.4)	1.25 (0.84, 1.85)	1.47 (0.98, 2.20)	1.46 (0.93, 2.30)
<b>Both frailty and CI</b>	51 (87.9)	0.62 (0.27, 1.43)	0.94 (0.40, 2.24)	0.99 (0.37, 2.66)
	<b>On DOAC n (%)</b>	<b>Odds of receiving a DOAC among those on OAC (N=600)</b>		
<b>No impairment</b>	165 (51.9)	referent	referent	referent
<b>Frailty</b>	12 (38.7)	0.59 (0.28, 1.25)	0.73 (0.33, 1.58)	0.65 (0.27, 1.53)
<b>CI</b>	93 (46.5)	0.81 (0.57, 1.15)	0.88 (0.61, 1.27)	0.87 (0.57, 1.33)
<b>Both frailty and CI</b>	28 (54.9)	1.13 (0.62, 2.04)	1.39 (0.75, 2.58)	1.23 (0.60, 2.53)

Note. OAC: Oral anticoagulation; DOAC: Direct-Acting Oral Anticoagulants

Model 1 is adjusted for CHA<sub>2</sub>DS<sub>2</sub>VASC score, Model 2 is adjusted for Model 1 + age, education, race, marital status, has-bled score, AMI, asthma/COPD, vision impairment, hearing impairment, social support, depression, anxiety, fall in the past 6 months.

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