

**Appendix 3.** Sensitivity analysis by varying baseline AF period to 365 days (instead of at least 365 days): Association of risk factors for atrial fibrillation in patients who received allopurinol with no atrial fibrillation within 365 days\* before the index date of allopurinol episode, adjusted for Charlson-Romano score

	Univariate		Multivariable-adjusted (model 1)		Multivariable-adjusted (model 2)	
	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value
Age (in years)						
65 - <75	Ref		Ref		Ref	
75 - <85	<b>1.68 (1.56, 1.81)</b>	<b>&lt;0.0001</b>	<b>1.61 (1.49, 1.74)</b>	<b>&lt;0.0001</b>	<b>1.61 (1.49, 1.74)</b>	<b>&lt;0.0001</b>
≥85	<b>2.48 (2.27, 2.72)</b>	<b>&lt;0.0001</b>	<b>2.37 (2.15, 2.60)</b>	<b>&lt;0.0001</b>	<b>2.37 (2.15, 2.60)</b>	<b>&lt;0.0001</b>
Gender						
Male	Ref		Ref		Ref	
Female	1.00 (0.94, 1.07)	1.00	<b>0.89 (0.83, 0.95)</b>	<b>0.0006</b>	<b>0.89 (0.83, 0.95)</b>	<b>0.0006</b>
Race						
White	Ref		Ref		Ref	
Black	<b>0.77 (0.69, 0.86)</b>	<b>&lt;0.0001</b>	<b>0.75 (0.67, 0.84)</b>	<b>&lt;0.0001</b>	<b>0.75 (0.67, 0.84)</b>	<b>&lt;0.0001</b>
Other	<b>0.68 (0.60, 0.78)</b>	<b>&lt;0.0001</b>	<b>0.66 (0.58, 0.75)</b>	<b>&lt;0.0001</b>	<b>0.66 (0.58, 0.75)</b>	<b>&lt;0.0001</b>
Charlson-Romano score	<b>1.12 (1.11, 1.13)</b>	<b>&lt;0.0001</b>	<b>1.11 (1.10, 1.12)</b>	<b>&lt;0.0001</b>	<b>1.11 (1.10, 1.12)</b>	<b>&lt;0.0001</b>
Statins	0.97 (0.83, 1.13)	0.69	0.89 (0.76, 1.05)	0.17	0.89 (0.76, 1.05)	0.17
Beta blockers	<b>1.55 (1.34, 1.79)</b>	<b>&lt;0.0001</b>	<b>1.53 (1.32, 1.78)</b>	<b>&lt;0.0001</b>	<b>1.53 (1.31, 1.78)</b>	<b>&lt;0.0001</b>
Diuretics	1.08 (0.93, 1.25)	0.30	0.94 (0.81, 1.10)	0.46	0.94 (0.81, 1.10)	0.46
ACE inhibitor	<b>1.20 (1.01, 1.41)</b>	<b>0.03</b>	<b>1.23 (1.03, 1.46)</b>	<b>0.02</b>	<b>1.23 (1.03, 1.46)</b>	<b>0.02</b>
Allopurinol	0.93 (0.87, 1.01)	0.07	<b>0.90 (0.84, 0.97)</b>	<b>0.006</b>	-	-
Allopurinol duration*						
0 days	Ref		-	-	Ref	
1-180 days	0.94 (0.85, 1.05)	0.28	-	-	0.93 (0.84, 1.03)	0.19
181 days -2 years	1.00 (0.91, 1.10)	0.99	-	-	0.95 (0.86, 1.05)	0.29
> 2 years	<b>0.73 (0.62, 0.86)</b>	<b>0.0002</b>	-	-	<b>0.71 (0.60, 0.83)</b>	<b>&lt;0.0001</b>

\*Baseline period limited to 365 days for previous diagnosis of AF, instead of ever diagnosis of AF (as in the main models shown tables 4 and 5)

Model 1 = Allopurinol Use + age + race + gender + Charlson score + beta blockers + diuretics + ACE inhibitors + Statins

Model 2 = Allopurinol duration + age + race + gender + Charlson score + beta blockers + diuretics + ACE inhibitors + Statins