

SUPPLEMENTARY DATA

Table 1 of the supplementary data. Confounders

	General population		Age < 70 years		EOD	
Variable	HR (95%CI)	Delta HR (%)	HR (95%CI)	Delta HR (%)	HR (95%CI)	Delta HR (%)
AF	3.39 (3.32-3.46)		3.00 (2.80-3.21)		2.87 (2.23-3.70)	
AF adjusted for age	1.1 (1.08-1.12)	68	1.35 (1.26-1.45)	55	1.89 (1.47-2.44)	34
AF adjusted for Male sex	3.45 (3.37-3.52)	2	3.07 (2.86-3.29)	2	2.78 (2.16-3.58)	3
Charlson Index	2.51 (2.46-2.57)	26	2.29 (2.08-2.39)	24	2.15 (1.67-2.77)	25
Alcoholism	3.39 (3.32-3.46)	0	2.96 (2.77-3.17)	1	2.68 (2.08-3.46)	7
Active smoker	3.11 (3.05-3.17)	8	2.89 (2.70-3.10)	4	2.86 (2.22-3.68)	0
Former smoker	3.11 (3.05-3.17)	8	2.89 (2.70-3.10)	4	2.86 (2.22-3.68)	0
Obesity	3.23 (3.16-3.30)	5	2.73 (2.54-2.92)	9	2.73 (2.12-3.51)	5
Hypertension	2.15 (2.11-2.20)	37	1.96 (1.83-2.10)	35	2.10 (1.63-2.71)	27
Dyslipidemia	3.18 (3.12-3.26)	6	2.69 (2.50-2.88)	10	2.68 (2.08-3.45)	7
Diabetes	2.99 (2.93-3.05)	12	2.55 (2.38-2.73)	15	2.52 (1.96-3.25)	12
Metabolic syndrome	2.91 (2.85-2.97)	14	2.40 (2.24-2.58)	20	2.45 (1.90-3.15)	15
Ischemic stroke	2.98 (2.92-3.05)	12	2.56 (2.38-2.74)	15	2.28 (1.76-3.25)	21
Hemorrhagic stroke	3.38 (3.30-3.45)	0	2.98 (2.78-3.20)	1	2.85 (2.21-3.66)	1
Transient ischemic attack	3.25 (3.18-3.32)	4	2.89 (2.71-3.11)	4	2.75 (2.21-3.66)	4
CKD	2.40 (2.35-2.45)	29	2.68 (2.50-2.87)	11	2.64 (2.05-3.40)	8
Sleep apnoea syndrome	3.40 (3.33-3.47)	0	2.96 (2.76-3.17)	1	2.81 (2.18-3.61)	2
Peripheral artery disease	3.31 (3.24-3.38)	2	2.92 (2.72-3.13)	3	2.76 (2.14-3.55)	4
Hypothyroidism	3.37 (3.30-3.44)	1	2.97 (2.77-3.18)	1	2.85 (2.21-3.67)	1
Anemia	3.33 (3.26-3.40)	2	3.00 (2.80-3.21)	0	2.87 (2.23-3.69)	0
Epilepsy	3.38 (3.31-3.45)	0	2.98 (2.78-3.19)	1	2.82 (2.19-3.63)	2
Parkinson's disease	3.29 (3.22-3.36)	3	2.95 (2.76-3.16)	2	2.85 (2.21-3.66)	1

Major depression	3.37 (3.31-3.45)	1	2.98 (2.78-3.19)	1	2.86 (2.22-3.68)	0
Schizophrenia	3.39 (3.32-3.46)	0	3.00 (2.80-3.19)	0	2.87 (2.23-3.69)	0

AF, atrial fibrillation; CKD, chronic kidney disease; EOD, early-onset dementia.
 HRs for the association between AF and dementia, adjusted for each variable. Significant confounders (those altering the HR for AF and incident dementia by ≥10%) are highlighted in bold.

Table 2 of the supplementary data. Characteristics of patients aged < 70 years.

	Global analysis			Stroke-censored analysis		
	No AF n = 1 740 918	AF n = 18 473	<i>P</i>	No AF n = 1 715 517	AF n = 16 529	<i>P</i>
Male sex	849 416 (48.8)	11 509 (62.3)	< .0001	833 130 (48.6)	10 321 (62.4)	< .0001
Age, y	56.0 ± 7.0	62.2 ± 5.9	< .0001	55.9 ± 7.0	62.0 ± 5.9	< .0001
Charlson Index	0.3 ± 0.7	1.1 ± 1.3	< .0001	0.3 ± 0.7	1.0 ± 1.2	< .0001
Heavy alcohol consumption	54 556 (3.1)	1096 (5.9)	< .0001	52 701 (3.1)	949 (5.7)	< .0001
Current smoker	442 190 (25.4)	3166 (17.1)	< .0001	435 524 (25.4)	2824 (17.1)	< .0001
Former smoker	189 568 (10.9)	3822 (20.7)	< .0001	184 203 (10.7)	3382 (20.5)	< .0001
Obesity	327 219 (18.8)	7279 (39.4)	< .0001	319 263 (18.6)	6528 (39.5)	< .0001
Hypertension	491 750 (28.2)	14 987 (81.1)	< .0001	474 057 (27.6)	13 287 (80.4)	< .0001
Dyslipidemia	402 953 (23.1)	6942 (37.6)	< .0001	391 723 (22.8)	6064 (36.7)	< .0001
Diabetes	166 411 (9.6)	4484 (24.3)	< .0001	159 513 (9.3)	3900 (23.6)	< .0001
Metabolic syndrome	240 460 (13.8)	7166 (38.8)	< .0001	231 538 (13.5)	6328 (38.3)	< .0001
Sleep apnoea syndrome	20 436 (1.2)	871 (4.7)	< .0001	19 634 (1.1)	793 (4.8)	< .0001
Ischemic stroke	15 461 (0.9)	1344 (7.3)	< .0001			
Hemorrhagic stroke	2615 (0.2)	96 (0.5)	< .0001			
Transient ischemic attack	6249 (0.4)	400 (2.2)	< .0001			
Epilepsy	10679 (0.6)	244 (1.3)	< .0001	9763 (0.6)	154 (0.9)	< .0001
Parkinson disease	2277 (0.1)	50 (0.3)	< .0001	2168 (0.1)	44 (0.3)	< .0001
Depression	85 725 (4.9)	1083 (5.9)	< .0001	83 614 (4.9)	940 (5.7)	< .0001
Schizophrenia	7094 (0.4)	60 (0.3)	0.089	6990 (0.4)	56 (0.3)	0.187
Peripheral artery disease	12 795 (0.7)	654 (3.5)	< .0001	11 282 (0.7)	497 (3.0)	< .0001
Chronic kidney disease	41 238 (2.4)	2207 (11.9)	< .0001	38 794 (2.3)	1865 (11.3)	< .0001
Hypothyroidism	40 985 (2.4)	833 (4.5)	< .0001	40 314 (2.3)	749 (4.5)	< .0001

Anemia	58 915 (3.4)	924 (5.0)	< .0001	57 598 (3.4)	802 (4.9)	< .0001
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AF, atrial fibrillation.
Values are expressed as No. (%) of mean ± standard deviation.

Table 3 of the supplementary data. Confounders (stroke-censored population)

	General population		Age under 70 years		EOD	
Variable	HR (95%CI)	Delta HR (%)	HR (95%CI)	Delta HR (%)	HR (95%CI)	Delta HR (%)
AF	3.42 (3.34-3.51)		2.77 (2.55-3.01)		2.72 (2.07-3.59)	
AF adjusted for age	1.09 (1.06-1.11)	68	1.25 (1.15-1.36)	55	1.81 (1.37-2.39)	34
AF adjusted for male sex	3.51 (3.43-3.60)	3	2.88 (2.65-3.12)	4	2.65 (2.01-3.50)	3
Charlson Index	2.67 (2.61-2.74)	22	2.22 (2.04-2.41)	20	2.21 (1.67-2.91)	19
Alcoholism	3.43 (3.35-3.51)	0	2.75 (2.53-2.99)	1	2.56 (1.94-3.38)	6
Active smoker	3.15 (3.07-3.22)	8	2.68 (2.47-2.91)	3	2.71 (2.06-3.58)	0
Former smoker	3.15 (3.07-3.22)	8	2.68 (2.47-2.91)	3	2.71 (2.06-3.58)	0
Obesity	3.25 (3.18-3.33)	5	2.52 (2.32-2.74)	9	2.60 (1.97-3.43)	4
Hypertension	2.16 (2.11-2.21)	37	1.84 (1.69-2.00)	34	2.07 (1.57-2.74)	24
Dyslipidemia	3.22 (3.14-3.30)	6	2.49 (2.29-2.70)	10	2.56 (1.94-3.38)	6
Diabetes	3.03 (2.96-3.11)	11	2.39 (2.20-2.60)	14	2.43 (1.84-3.20)	11
Metabolic syndrome	2.94 (2.87-3.01)	14	2.25 (2.07-2.44)	19	2.38 (1.80-3.14)	13
CKD	2.40 (2.35-2.47)	30	2.50 (2.30-2.71)	10	2.54 (1.93-3.35)	7
Sleep apnoea syndrome	3.44 (3.35-3.52)	1	2.74 (2.52-2.97)	1	2.67 (2.02-3.51)	2
Peripheral artery disease	3.36 (3.28-3.44)	2	2.72 (2.50-2.95)	2	2.64 (2.00-3.49)	3
Hypothyroidism	3.41 (3.33-3.49)	0	2.75 (2.53-2.98)	1	2.70 (2.05-3.56)	1
Anemia	3.38 (3.30-3.46)	1	2.77 (2.55-3.01)	0	2.72 (2.06-3.59)	0
Epilepsy	3.42 (3.34-3.51)	0	2.76 (2.54-3.00)	0	2.69 (2.04-3.55)	1
Parkinson disease	3.32 (3.24-3.40)	3	2.74 (2.52-2.97)	1	2.70 (2.05-3.55)	1
Major depression	3.42 (3.34-3.50)	0	2.76 (2.54-3.00)	0	2.71 (2.06-3.58)	0
Schizophrenia	3.42 (3.34-3.50)	0	2.77 (2.55-3.01)	0	2.72 (2.06-3.59)	0

AF, atrial fibrillation; CKD, chronic kidney disease; EOD, early-onset dementia.

HRs for the association between AF and dementia, adjusted for each variable. Significant confounders (those altering the HR for AF and incident dementia by $\geq 10\%$) are highlighted in bold.

Figure 1 of the supplementary data. Cumulative incidence of dementia in the overall population, stratified by AF status.

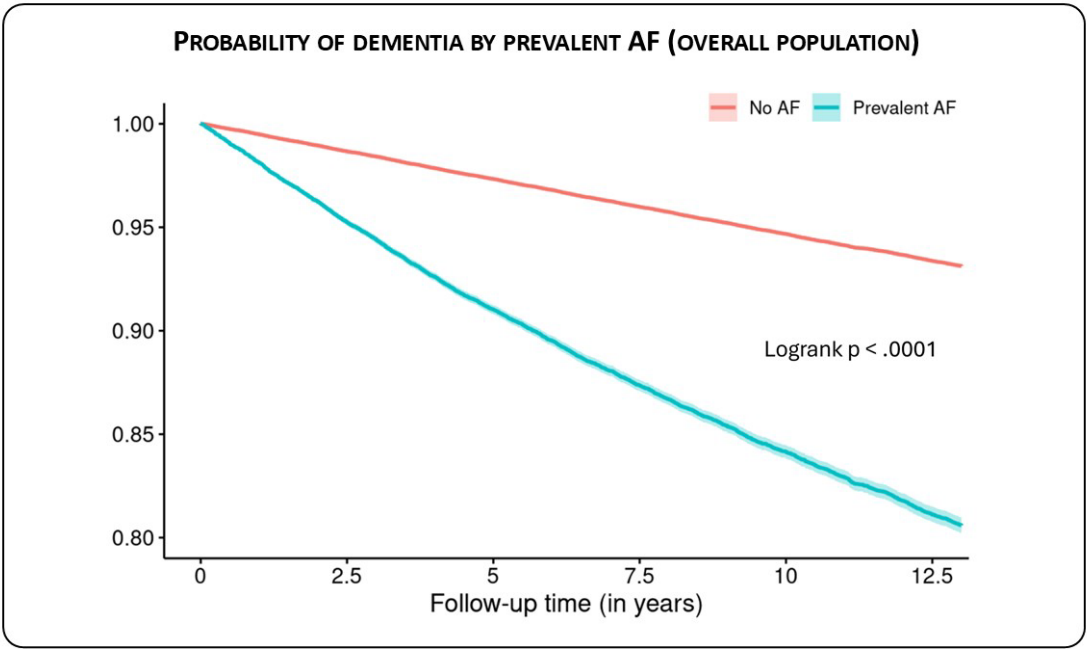


Figure 2 of the supplementary data. Cumulative incidence of dementia in the overall population, stratified by age subgroups.

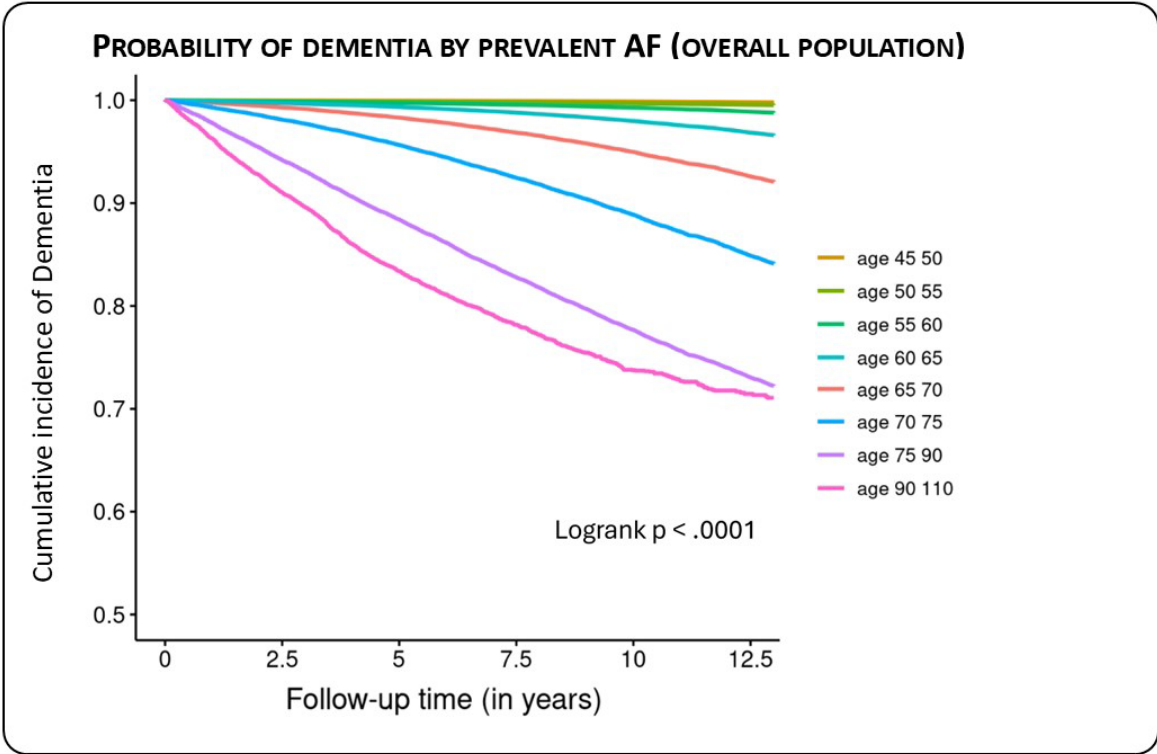


Figure 3 of the supplementary data. Cumulative incidence of early-onset dementia in the overall population, stratified by AF status.

