Supplementary Online Material

Table S1. *International Classification of Diseases* codes used in the study.

	ICD-8	ICD-10
Heart failure	42709, 42710, 42711, 42719, 42899,78249	I50, I11.0, I13.0, I13.2
Myocardial infarction	410	I21
Angina pectoris	413	I20 (except I20.0), I25.1, I25.9
Atrial fibrillation or flutter	42793, 42794	I48
Valvular heart disease	394-398	I05, I06, I07, I08.0, I09.8, I34-I37, I39.0, I39.3, I51.1A, Q22
Hypercholesterolemia	27200	E780
Hypertension	400-404	DI10-DI15, I67.4
Stroke	431, 433-434	I61, I63-I64
Myocarditis	422	I40, I41, I090, I514
Cardiomyopathy	425	I42-I43 (excluding I42.6)
Obesity	277	E65-E68
Diabetes mellitus	249, 250 (excluding 24902, 25002)	E10 (excluding E10.2), E11 (excluding E11.2), H36.0
Chronic obstructive pulmonary disease	490-493; 515-518	J40-J47; J60-J67; J68.4; J70.1; J70.3; J84.1; J92.0; J96.1; J98.2; J98.3
Myxedema	244	E00, E03, E890
Alcoholism-related diseases	980, 29109-29199, 30309-30399, 57109-57111, 57710	F10 (except F10.0), G31.2, G62.1, G72.1, I 42.6, K29.2, K86.0, Z72.1
Head trauma	800-803, 850-854, 810-874	S00-S09
Osteoarthritis (patients often use NSAIDs which therefore may modify the risk of dementia). Other connective tissue diseases associated with use of NSAIDs are included in the CCI index	713	M15-M19
Anemia	280-281, 283-285	D50-55, D59, D61-D64
Chronic kidney disease	24902, 25002, 75310-75319, 582-584, 59009, 59320, 792	E102, E112, E142, N03, N05, N110, N14, N16, N18-N19, N269, Q611-Q614
Outcomes		
Alzheimer's disease	29010, 29009	F00 series (includes F00.0x, F00.1x, F00.2x, and F00.9x); G30 (includes G30, G30.0, 30.1, 30.8, 30.9)
Vascular dementia	29309, 29319	F01 series (includes F01.0x, F01.1x, F01.2x, F01.3x, F01.8x, & F01.9x)
Other dementia	09419 and 29209, 29011, 29018, 29019, 29209	F02 series; F03 series; F1x.73 series (F10.73 through F19.73); G23.1; G31.0, G31.1, G31.8B, G31.8E, G31.85

Table S2. Charlton comorbidity index conditions.

Diseases	Weights	
Peripheral vascular disease	1	ICD-8: 440, 441, 442, 443, 444, 445; ICD-10: I70, I71, I72, I73, I74, I77
Connective tissue disease		ICD-8: 712, 716, 734, 446, 135.99; ICD-10: M05, M06, M08, M09, M30, M31, M32, M33, M34, M35, M36, D86
Ulcer disease		ICD-8: 530.91, 530.98, 531-534; ICD-10: K22.1, K25-K28
Mild liver disease		ICD-8: 571, 57301, 57304; ICD-10:B18, K70.0-K70.3, K70.9, K71, K73, K74, K76.0
Hemiplegia	2	ICD-8: 344; ICD-10: G81, G82
Non-metastatic solid tumor		ICD-8: 140-194; ICD-10: C00-C75
Leukemia		ICD-8: 204-207; ICD-10: C91-C95
Lymphoma		ICD-8: 200-203, 275.59; ICD-10: C81-C85, C88, C90, C96
Moderate to severe liver disease	3	ICD-8: 070.00, 070.02, 070.04, 070.06, 070.08, 573.00, 456.00-456.09; ICD-10: B15.0, B16.0, B16.2, B19.0, K70.4, K72, K76.6, I85
Metastatic cancer	6	ICD-8: 195-198, 199; ICD-10: C76-C80
AIDS		ICD-8: 079.83; ICD-10: B21-B24

Diseases	Weights	

Table S3. Selected subgroups of heart failure patients and corresponding hazard ratios for dementia comparing heart failure patients with members of the general population.

	1-10 year adjusted hazard ratio (95% confidence interval)*				11-35 year adjusted hazard ratio (95% confidence interval)*			
	Alzheimer's disease	Vascular dementia	Other dementias	All-cause dementia	Alzheimer's disease	Vascular dementia	Other dementias	All-cause dementia
Hypercholesterolemia								
Yes	1.00 (0.79–1.27)	1.39 (1.01–1.90)	1.53 (1.27–1.86)	1.30 (1.13–1.48)	0.87 (0.39–1.97)	0.46 (0.09–2.26)	1.74 (0.70–4.30)	0.96 (0.55–1.67)
No	0.99 (0.95–1.03)	1.37 (1.30–1.45)	1.24 (1.21–1.28)	1.17 (1.14–1.20)	0.85 (0.76–0.94)	1.41 (1.24–1.60)	1.23 (1.15–1.31)	1.13 (1.08–1.19)
Stroke								
Yes	0.98 (0.81–1.18)	0.98 (0.84–1.15)	1.14 (1.02–1.27)	1.07 (0.98–1.16)	1.16 (0.47–2.84)	1.17 (0.58–2.38)	1.54 (0.98–2.43)	1.34 (0.94–1.91)
No	0.99 (0.95–1.03)	1.42 (1.34–1.51)	1.25 (1.22–1.29)	1.18 (1.15–1.20)	0.84 (0.76–0.94)	1.40 (1.23–1.59)	1.22 (1.14–1.31)	1.13 (1.07–1.19)
Obesity								
Yes	1.26 (1.01–1.58)	1.17 (0.87–1.56)	1.35 (1.15–1.60)	1.29 (1.14–1.46)	0.76 (0.43–1.36)	1.82 (0.83–4.01)	1.53 (1.07–2.19)	1.30 (0.98–1.73)
No	0.98 (0.95–1.02)	1.38 (1.30–1.46)	1.24 (1.21–1.28)	1.17 (1.14–1.19)	0.85 (0.76–0.94)	1.38 (1.21–1.57)	1.22 (1.14–1.30)	1.12 (1.07–1.18)
Diabetes mellitus								
Yes	0.84 (0.73–0.98)	1.15 (0.96–1.38)	1.18 (1.07–1.30)	1.07 (1.00–1.16)	0.70 (0.41–1.21)	1.39 (0.77–2.52)	1.18 (0.87–1.60)	1.09 (0.85–1.39)
No	1.00 (0.96–1.04)	1.39 (1.31–1.47)	1.25 (1.21–1.29)	1.18 (1.15–1.20)	0.85 (0.77–0.95)	1.39 (1.22–1.58)	1.23 (1.15–1.31)	1.13 (1.07–1.19)
Chronic pulmonary disease								
Yes	0.90 (0.79–1.04)	1.07 (0.89–1.30)	1.15 (1.05–1.27)	1.06 (0.99–1.14)	1.00 (0.66–1.49)	1.80 (1.09–2.98)	1.40 (1.06–1.84)	1.33 (1.08–1.63)
No	1.00 (0.96–1.04)	1.40 (1.32–1.49)	1.26 (1.22–1.30)	1.18 (1.16–1.21)	0.84 (0.75–0.93)	1.36 (1.20–1.56)	1.22 (1.14–1.30)	1.12 (1.06–1.18)
Myxedema								
Yes	0.86 (0.61–1.20)	1.34 (0.83–2.16)	1.19 (0.96–1.49)	1.10 (0.93–1.31)	0.65 (0.15–2.81)	1.13 (0.24–5.33)	0.81 (0.36–1.85)	0.80 (0.42–1.52)
No	0.99 (0.95–1.03)	1.37 (1.29–1.45)	1.25 (1.21–1.29)	1.17 (1.15–1.20)	0.85 (0.76–0.94)	1.39 (1.22–1.58)	1.23 (1.15–1.32)	1.13 (1.08–1.19)
Alcoholism-related disease								
Yes	0.90 (0.62–1.31)	1.18 (0.79–1.78)	1.13 (0.94–1.35)	1.10 (0.94–1.28)	1.58 (0.58–4.33)	1.44 (0.44–4.70)	1.33 (0.85–2.08)	1.34 (0.91–1.97)
No	0.99 (0.96–1.03)	1.37 (1.30–1.45)	1.25 (1.21–1.29)	1.17 (1.15–1.20)	0.85 (0.76–0.94)	1.39 (1.23–1.58)	1.22 (1.15–1.31)	1.13 (1.07–1.19)
Head trauma								
Yes	0.88 (0.78–0.98)	1.37 (1.17–1.59)	1.12 (1.04–1.21)	1.07 (1.01–1.14)	0.68 (0.47–1.00)	1.45 (0.97–2.16)	1.31 (1.08–1.59)	1.16 (0.99–1.35)
No	1.01 (0.97–1.05)	1.37 (1.29–1.46)	1.27 (1.23–1.32)	1.19 (1.16–1.22)	0.86 (0.78–0.96)	1.39 (1.22–1.59)	1.22 (1.14–1.31)	1.13 (1.07–1.19)
Osteoarthritis								
Yes	0.94 (0.85–1.05)	1.24 (1.06–1.44)	1.17 (1.09–1.26)	1.11 (1.05–1.17)	0.77 (0.54–1.09)	1.69 (1.12–2.54)	0.91 (0.72–1.15)	0.96 (0.80–1.14)
No	1.00 (0.96–1.04)	1.39 (1.31–1.48)	1.26 (1.22–1.31)	1.18 (1.16–1.21)	0.85 (0.77–0.95)	1.36 (1.19–1.56)	1.26 (1.18–1.35)	1.15 (1.09–1.21)
Anemia								
Yes	0.65 (0.52–0.82)	1.20 (0.91–1.57)	1.11 (0.98–1.25)	0.99 (0.90–1.10)	1.31 (0.61–2.81)	1.63 (0.48–5.56)	0.99 (0.58–1.69)	1.12 (0.74–1.70)
No	1.00 (0.96–1.04)	1.37 (1.30–1.46)	1.25 (1.21–1.29)	1.18 (1.15–1.20)	0.84 (0.76–0.93)	1.39 (1.23–1.58)	1.23 (1.15–1.32)	1.13 (1.08–1.19)
Chronic kidney disease								
Yes	1.04 (0.74–1.47)	1.21 (0.79–1.85)	1.27 (1.00–1.61)	1.20 (1.00–1.43)	0.52 (0.13–2.15)	1.18 (0.11–12.79)	1.89 (0.89–4.00)	1.35 (0.71–2.56)
No	0.99 (0.95–1.03)	1.37 (1.30–1.45)	1.25 (1.21–1.28)	1.17 (1.15–1.20)	0.85 (0.76–0.94)	1.40 (1.23–1.59)	1.23 (1.15–1.31)	1.13 (1.07–1.19)
Charlson Comorbidity Index score								
Normal	1.02 (0.98–1.07)	1.40 (1.31–1.49)	1.24 (1.20–1.28)	1.18 (1.15–1.21)	0.83 (0.74–0.93)	1.42 (1.24–1.63)	1.19 (1.10–1.27)	1.11 (1.05–1.17)
Moderate	0.88 (0.78–1.00)	1.25 (1.07–1.46)	1.22 (1.12–1.32)	1.11 (1.04–1.18)	0.92 (0.63–1.34)	1.09 (0.68–1.74)	1.70 (1.37–2.12)	1.38 (1.16–1.64)
Severe	0.78 (0.67–0.91)	1.22 (1.01–1.49)	1.30 (1.18–1.43)	1.14 (1.06–1.23)	0.89 (0.56–1.41)	1.29 (0.66–2.51)	1.29 (0.955–1.75)	1.15 (0.91–1.46)
Very severe	0.87 (0.65–1.16)	1.32 (0.90–1.94)	1.29 (1.08–1.53)	1.17 (1.04–1.33)	1.30 (0.51–3.32)	0.57 (0.06–5.12)	0.91 (0.41–2.01)	0.99 (0.56–1.77)

*Adjusted for age, sex, calendar year, stroke, atrial fibrillation/atrial flutter, hypertension, hypercholesterolemia, myocardial infarction, stable angina pectoris, valvular heart disease, diabetes, chronic obstructive pulmonary disease, obesity, myxedema, alcoholism-related disease, head trauma, osteoarthritis, anemia, chronic kidney disease, and a modified CCI score (except the stratified variable).

Table S4. Cumulative incidence 1-10 year risks and hazard ratios of dementia in heart failure patients and members of the general population cohort, stratified by index periods.

	Comparison Cohort		Heart Failure Patients			
	Events /No. at risk	Cumulative incidence risk, % (95% CI)	Events /No. at risk	Cumulative incidence risk, % (95% CI)	Hazard ratio controlled for matching factors* (95% CI)	Adjusted hazard ratio (95% CI)†
1980-1994						
All-cause dementia	33,059/704,336	5.03 (4.98 - 5.09)	3,063/85,496	3.58 (3.46 - 3.71)	1.38 (1.32–1.44)	1.31 (1.26–1.37)
Alzheimer's disease	16,553/704,336	2.49 (2.46 - 2.53)	1,508/85,496	1.76 (1.68 - 1.85)	1.28 (1.20–1.36)	1.24 (1.17–1.32)
Vascular dementia	3,678/704,336	0.56 (0.54 - 0.58)	438/85,496	0.51 (0.47 - 0.56)	1.92 (1.70–2.17)	1.69 (1.49–1.92)
Other dementias	12,828/704,336	1.98 (1.95 - 2.02)	1,117/85,496	1.31 (1.23 - 1.38)	1.39 (1.29–1.49)	1.31 (1.21–1.41)
1995-2012						
All-cause dementia	59,169/787,766	9.43 (9.36 - 9.50)	6,745/112,542	6.95 (6.78 - 7.11)	1.23 (1.20–1.27)	1.17 (1.13–1.20)
Alzheimer's disease	17,901/787,766	2.91 (2.87 - 2.96)	1,413/112,542	1.48 (1.41 - 1.56)	0.84 (0.79–0.89)	0.84 (0.79–0.89)
Vascular dementia	7,490/787,766	1.20 (1.17 - 1.23)	1,108/112,542	1.14 (1.08 - 1.21)	1.58 (1.47–1.70)	1.39 (1.29–1.51)
Other dementias	33,778/787,766	5.40 (5.34 - 5.46)	4,224/112,542	4.35 (4.22 - 4.48)	1.38 (1.33–1.43)	1.29 (1.24–1.34)

*Age, sex, and calendar year

†Controlled for matching factors by study design and adjusted for stroke, atrial fibrillation/atrial flutter, hypertension, hypercholesterolemia, myocardial infarction, stable angina pectoris, valvular heart disease, diabetes, chronic obstructive pulmonary disease, obesity, myxedema, alcoholism-related disease, head trauma, osteoarthritis, anemia, chronic kidney disease, and a modified CCI score. CI, confidence interval

Table S5. Cumulative incidence risks and hazard ratio of dementia in heart failure patients (defined as a first-time inpatient and/or outpatient diagnosis) and members of the general population.

Years since diagnosis	Events /No. at risk	Cumulative incidence risk, % (95% CI)	Events /No. at risk	Cumulative incidence risk, % (95% CI)	Hazard ratio controlled for matching factors* (95% CI)	Adjusted hazard ratio (95% CI)†
All-cause dementia						
1-10	100,211/1,665,527	7.12 (7.08 - 7.17)	11,199/231,360	5.42 (5.32 - 5.52)	1.25 (1.22–1.28)	1.19 (1.16–1.22)
11-20	39,216/558,822	9.75 (9.65 - 9.84)	1,790/36,414	6.98 (6.66 - 7.31)	1.26 (1.18–1.34)	1.19 (1.11–1.27)
21-35	7,575/102,213	13.40 (12.98 - 13.83)	150/3,209	7.52 (6.22 - 8.97)	1.42 (1.12–1.81)	1.35 (1.06–1.73)
1-35	147,002/1,665,527	15.13 (15.01 - 15.24)	13,139/231,360	7.55 (7.40 - 7.70)	1.25 (1.22–1.28)	1.19 (1.16–1.21)
Alzheimer's disease						
1-10	37,154/1,665,527	2.63 (2.61 - 2.66)	3,290/231,360	1.58 (1.53 - 1.64)	0.99 (0.95–1.03)	0.99 (0.95–1.03)
11-20	11,909/558,822	2.97 (2.91 - 3.02)	443/36,414	1.73 (1.57 - 1.90)	0.84 (0.74–0.95)	0.85 (0.75–0.97)
21-35	2,496/102,213	4.61 (4.36 - 4.87)	43/3,209	2.57 (1.72 - 3.70)	1.27 (0.83–1.94)	1.22 (0.78–1.91)
1-35	51,559/1,665,527	5.24 (5.17 - 5.31)	3,776/231,360	2.16 (2.07 - 2.25)	0.98 (0.94–1.01)	0.98 (0.94–1.02)
Vascular dementia						
1-10	12,289/1,665,527	0.88 (0.86 - 0.89)	1,798/231,360	0.88 (0.84 - 0.92)	1.63 (1.54–1.72)	1.44 (1.35–1.53)
11-20	4,951/558,822	1.24 (1.21 - 1.28)	289/36,414	1.11 (0.98 - 1.25)	1.81 (1.53–2.13)	1.55 (1.30–1.85)
21-35	929/102,213	1.70 (1.55 - 1.86)	32/3,209	1.52 (1.04 - 2.17)	2.80 (1.53–5.10)	2.58 (1.32–4.91)
1-35	18,169/1,665,527	1.93 (1.89 - 1.97)	2,119/231,360	1.24 (1.18 - 1.30)	1.65 (1.57–1.75)	1.46 (1.38–1.54)
Other dementias						
1-10	50,768/1,665,527	3.65 (3.62 - 3.68)	6,111/231,360	2.98 (2.91 - 3.06)	1.35 (1.30–1.39)	1.27 (1.23–1.31)
11-20	22,356/558,822	5.63 (5.56 - 5.70)	1,058/36,414	4.19 (3.94 - 4.45)	1.43 (1.31–1.56)	1.34 (1.22–1.46)
21-35	4,150/102,213	7.36 (7.02 - 7.72)	75/3,209	3.49 (2.71 - 4.42)	1.25 (0.89–1.74)	1.17 (0.83–1.66)
1-35	77,274/1,665,527	8.27 (8.18 - 8.37)	7,244/231,360	4.21 (4.10 - 4.32)	1.35 (1.32–1.39)	1.28 1.24–1.31)

*Age, sex, and calendar year

†Controlled for matching factors by study design and adjusted for stroke, atrial fibrillation/atrial flutter, hypertension, hypercholesterolemia, myocardial infarction, stable angina pectoris, valvular heart disease, diabetes, chronic obstructive pulmonary disease, obesity, myxedema, alcoholism-related disease, head trauma, osteoarthritis, anemia, chronic kidney disease, and a modified CCI score. CI, confidence interval

Table S6. Cumulative incidence risks and hazard ratios of dementia in heart failure patients and members of the general population comparison cohort, excluding the initial follow-up periods.

	Comparison cohort		Heart failure patients		
Years since diagnosis	Events /No. at risk	Cumulative incidence risk, % (95% CI)	Events /No. at risk	Cumulative incidence risk, % (95% CI)	Hazard ratio controlled for matching factors* (95% CI)	Adjusted hazard ratio (95% CI)†
All-cause dementia						
1-35	137,057/1,492,102	14.95 (14.84 - 15.06)	11,484/198,038	7.22 (7.08 - 7.36)	1.28 (1.25–1.30)	1.21 (1.18–1.24)
2-35	123,074/1,370,234	15.01 (14.90 - 15.13)	9,409/162,228	7.53 (7.37 - 7.70)	1.27 (1.24–1.30)	1.20 (1.17–1.24)
3-35	110,204/1,226,987	15.09 (14.96 - 15.21)	7,631/131,192	7.72 (7.53 - 7.91)	1.26 (1.23–1.30)	1.19 (1.16–1.23)
5-35	87,270/974,261	15.23 (15.09 - 15.37)	5,051/85,962	8.14 (7.89 - 8.40)	1.27 (1.23–1.32)	1.20 (1.15–1.24)
10-35	44,829/511,213	15.37 (15.17 - 15.58)	1,676/29,655	8.73 (8.26 - 9.21)	1.27 (1.19–1.36)	1.21 (1.12–1.29)
Alzheimer's disease						
1-35	48,093/1,492,102	5.18 (5.11 - 5.25)	3,319/198,038	2.07 (1.98 - 2.15)	1.00 (0.96–1.04)	1.00 (0.96–1.04)
2-35	42,331/1,370,234	5.13 (5.06 - 5.20)	2,654/162,228	2.11 (2.01 - 2.21)	0.98 (0.94–1.03)	0.99 (0.94–1.03)
3-35	37,278/1,226,987	5.10 (5.02 - 5.17)	2,064/131,192	2.09 (1.98 - 2.21)	0.94 (0.89–0.99)	0.95 (0.90–1.00)
5-35	28,545/974,261	5.04 (4.95 - 5.12)	1,302/85,962	2.14 (1.99 - 2.29)	0.91 (0.85–0.98)	0.92 (0.86–0.98)
10-35	13,639/511,213	4.90 (4.78 - 5.02)	398/29,655	2.24 (1.96 - 2.54)	0.82 (0.72–0.93)	0.83 (0.73–0.95)
Vascular dementia						
1-35	16,800/1,492,102	1.90 (1.85 - 1.94)	1,824/198,038	1.17 (1.11 - 1.23)	1.69 (1.59–1.79)	1.49 (1.40–1.59)
2-35	15,099/1,370,234	1.91 (1.86 - 1.95)	1,504/162,228	1.23 (1.16 - 1.30)	1.69 (1.58–1.80)	1.49 (1.39–1.59)
3-35	13,490/1,226,987	1.91 (1.87 - 1.96)	1247/131,192	1.28 (1.20 - 1.36)	1.75 (1.63–1.89)	1.53 (1.42–1.66)
5-35	10,718/974,261	1.94 (1.88 - 1.99)	811/85,962	1.34 (1.24 - 1.45)	1.80 (1.64–1.98)	1.58 (1.43–1.74)
10-35	5,632/511,213	1.98 (1.91 - 2.06)	278/29,655	1.48 (1.29 - 1.69)	1.89 (1.60–2.24)	1.66 (1.38–1.99)
Other dementia						
1-35	72,164/1,492,102	8.17 (8.08 - 8.26)	6,341/198,038	4.03 (3.92 - 4.14)	1.39 (1.35–1.43)	1.30 (1.26–1.34)
2-35	65,644/1,370,234	8.28 (8.19 - 8.38)	5,251/162,228	4.24 (4.12 - 4.37)	1.38 (1.34–1.43)	1.29 (1.25–1.34)
3-35	59,436/1,226,987	8.39 (8.28 - 8.49)	4,320/131,192	4.40 (4.26 - 4.54)	1.38 (1.33–1.44)	1.29 (1.24–1.34)
5-35	48,007/974,261	8.57 (8.46 - 8.69)	2,938/85,962	4.73 (4.55 - 4.92)	1.41 (1.34–1.48)	1.30 (1.24–1.37)
10-35	25,558/511,213	8.82 (8.66 - 8.99)	1,000/29,655	5.09 (4.76 - 5.45)	1.45 (1.32–1.58)	1.35 (1.23–1.48)

*Age, sex, and calendar year.
†Controlled for matching factors by study design and adjusted for stroke, atrial fibrillation/atrial flutter, hypertension, hypercholesterolemia, myocardial infarction, stable angina pectoris, valvular heart disease, diabetes, chronic obstructive pulmonary disease, obesity, myxedema, alcoholism-related disease, head trauma, osteoarthritis, anemia, chronic kidney disease, and a modified CCI score. CI, confidence interval

Table S7. Cumulative incidence risks and hazard ratio of Alzheimer's disease using including ICD code F03 in heart failure patients and members of the general population comparison cohort.

	Comparison Cohort		Heart Failure Patients			
Years since Diagnosis	**Events /No. at risk**	**Cumulative incidence risk, % (95% CI)**	**Events /No. at risk**	**Cumulative incidence risk, % (95% CI)**	**Hazard ratio controlled for matching factors* (95% CI)**	**Adjusted hazard ratio (95% CI)†**
1-10	77,905/1,492,102	6.07 (6.03 - 6.12)	7,871/198,038	4.33 (4.24 - 4.42)	1.21 (1.18–1.25)	1.17 (1.14–1.20)
11-20	31,290/511,213	8.25 (8.16 - 8.34)	1,229/29,655	5.60 (5.29 - 5.92)	1.19 (1.10–1.28)	1.14 (1.06–1.24)
21-35	6,334/99,527	11.35 (10.95 - 11.76)	104/2,906	5.72 (4.53 - 7.09)	1.24 (0.93–1.65)	1.16 (0.87–1.56)
1-35	115,529/1,492,102	12.65 (12.55 - 12.76)	9,204/198,038	5.79 (5.66 - 5.92)	1.21 (1.18–1.24)	1.16 (1.14–1.20)

*Age, sex, and calendar year.

†Controlled for matching factors by study design and adjusted for stroke, atrial fibrillation/atrial flutter, hypertension, hypercholesterolemia, myocardial infarction, stable angina pectoris, valvular heart disease, diabetes, chronic obstructive pulmonary disease, obesity, myxedema, alcoholism-related disease, head trauma, osteoarthritis, anemia, chronic kidney disease, and a modified CCI score. CI, confidence interval