Supplementary Table 1. Subgroup analysis for Alzheimer's disease

	No. of event	Duration (person-year)	Incidence rate (per 1,000)	Hazard ratio (95% confidence intervals)		
				Model 1	Model 2	Model 3
Sex						
Male						
Never	11,565	1,341,731.92	8.62	1 (Ref.)	1 (Ref.)	1 (Ref.)
Beginning	2,209	292,956.17	7.54	0.87 (0.84, 0.92)	0.88 (0.84, 0.92)	0.89 (0.85, 0.94)
Discontinuation	2,551	276,207.80	9.24	1.07 (1.03, 1.12)	0.97 (0.93, 1.01)	0.97 (0.93, 1.02)
Maintenance	1,449	236,459.40	6.13	0.71 (0.67, 0.75)	0.74 (0.70, 0.78)	0.76 (0.72, 0.80)
Female						
Never	24,026	2,332,205.50	10.30	1 (Ref.)	1 (Ref.)	1 (Ref.)
Beginning	2,596	413,139.73	6.28	0.61 (0.59, 0.63)	0.84 (0.80, 0.87)	0.84 (0.81, 0.88)
Discontinuation	2,973	384,341.08	7.74	0.75 (0.72, 0.78)	0.91 (0.88, 0.95)	0.92 (0.88, 0.95)
Maintenance	1,065	232,473.12	4.58	0.45 (0.42, 0.48)	0.70 (0.66, 0.75)	0.71 (0.67, 0.76)
p for interaction				<0.001	0.09	0.04
Age						
40s						
Never	167	804,573.4	0.21	1 (Ref.)	1 (Ref.)	1 (Ref.)
Beginning	14	138,407.65	0.10	0.49 (0.28, 0.84)	0.48 (0.28, 0.83)	0.49 (0.28, 0.84)
Discontinuation	22	120,010.89	0.18	0.88 (0.57, 1.38)	0.87 (0.56, 1.35)	0.88 (0.57, 1.38)
Maintenance	15	89,604.82	0.17	0.81 (0.48, 1.38)	0.81 (0.47, 1.37)	0.83 (0.49, 1.41)
50s						
Never	1,367	1,213,861.80	1.13	1 (Ref.)	1 (Ref.)	1 (Ref.)
Beginning	255	243,373.37	1.05	0.93 (0.81, 1.06)	0.92 (0.80, 1.05)	0.924 (0.81, 1.06)
Discontinuation	239	219,360.84	1.09	0.97 (0.84, 1.11)	0.95 (0.83, 1.09)	0.959 (0.84, 1.10)
Maintenance	128	161,372.42	0.79	0.71 (0.59, 0.85)	0.70 (0.59, 0.84)	0.715 (0.60, 0.86)
60s						
Never	7,001	940,437.18	7.44	1 (Ref.)	1 (Ref.)	1 (Ref.)
Beginning	1,291	207,857.34	6.21	0.83 (0.79, 0.89)	0.84 (0.79, 0.89)	0.843 (0.79, 0.89)
Discontinuation	1,323	195,268.32	6.78	0.91 (0.86, 0.96)	0.91 (0.86, 0.97)	0.912 (0.86, 0.97)
Maintenance	756	143,027.80	5.29	0.72 (0.66, 0.77)	0.73 (0.67, 0.78)	0.738 (0.68, 0.80)
70s						
Never	19,428	612,811.97	31.70	1 (Ref.)	1 (Ref.)	1 (Ref.)
Beginning	2,600	105,656.13	24.61	0.78 (0.75, 0.81)	0.83 (0.80, 0.87)	0.84 (0.81, 0.88)
Discontinuation	3,065	112,729.17	27.19	0.86 (0.83, 0.89)	0.91 (0.87, 0.94)	0.91 (0.88, 0.94)
Maintenance	1,330	68,865.71	19.31	0.62 (0.58, 0.65)	0.68 (0.65, 0.72)	0.70 (0.66, 0.74)
80s						
Never	7,628	102,253.08	74.60	1 (Ref.)	1 (Ref.)	1 (Ref.)
Beginning	645	10,801.41	59.71	0.80 (0.74, 0.87)	0.85 (0.79, 0.92)	0.86 (0.80, 0.94)
Discontinuation	875	13,179.67	66.39	0.89 (0.83, 0.96)	0.95 (0.88, 1.02)	0.96 (0.90, 1.03)
Maintenance	285	6,061.78	47.02	0.63 (0.56, 0.71)	0.70 (0.62, 0.79)	0.73 (0.65, 0.82)
p for interaction				0.02	0.67	0.62

Model 1: non-adjusted; Model 2: adjusted for age and sex; Model 3: adjusted for age, sex, income status, smoking, drinking, body mass index level, diabetes mellitus, hypertension, dyslipidemia, and chronic kidney disease.