

Supplementary Table 1. Risk of dementia according to cumulative exposure to impaired fasting glucose (sensitivity analysis).

	N	Event	Incidence rate	Model 1	Model 2	Model 3	Model 4
All-cause Dementia							
0	614126	2293	0.59	1 (Ref.)	1 (Ref.)	1 (Ref.)	1 (Ref.)
1	353909	1619	0.72	1.23 (1.16, 1.31)	1.06 (0.99, 1.13)	1.06 (0.99, 1.13)	1.06 (0.99, 1.13)
2	211914	1076	0.80	1.37 (1.27, 1.47)	1.09 (1.01, 1.17)	1.10 (1.02, 1.18)	1.09 (1.02, 1.18)
3	127990	720	0.89	1.52 (1.40, 1.65)	1.15 (1.06, 1.25)	1.16 (1.07, 1.27)	1.16 (1.06, 1.26)
4	68464	355	0.82	1.40 (1.25, 1.57)	1.04 (0.93, 1.17)	1.066 (0.95, 1.19)	1.06 (0.95, 1.19)
P for trend				<0.001	0.006	0.001	0.002
Alzheimer's Disease							
0	614126	1650	0.42	1 (Ref.)	1 (Ref.)	1 (Ref.)	1 (Ref.)
1	353909	1198	0.53	1.27 (1.178, 1.36)	1.08 (1.00, 1.16)	1.08 (1.01, 1.17)	1.09 (1.01, 1.18)
2	211914	786	0.59	1.39 (1.28, 1.51)	1.10 (1.01, 1.20)	1.11 (1.02, 1.21)	1.12 (1.03, 1.22)
3	127990	530	0.65	1.56 (1.41, 1.72)	1.17 (1.06, 1.30)	1.19 (1.08, 1.32)	1.21 (1.09, 1.33)
4	68464	255	0.59	1.40 (1.23, 1.60)	1.05 (0.92, 1.19)	1.07 (0.94, 1.22)	1.09 (0.95, 1.24)
P for trend				<0.001	0.007	0.002	0.002
Vascular Dementia							
0	614126	406	0.10	1 (Ref.)	1 (Ref.)	1 (Ref.)	1 (Ref.)
1	353909	265	0.12	1.14 (0.97, 1.33)	0.99 (0.85, 1.15)	0.98 (0.84, 1.15)	0.96 (0.82, 1.12)
2	211914	177	0.13	1.27 (1.06, 1.51)	1.02 (0.85, 1.21)	1.01 (0.85, 1.21)	0.96 (0.80, 1.15)
3	127990	120	0.15	1.43 (1.16, 1.75)	1.08 (0.88, 1.32)	1.08 (0.88, 1.33)	1.01 (0.82, 1.24)
4	68464	65	0.15	1.44 (1.11, 1.88)	1.06 (0.81, 1.38)	1.07 (0.82, 1.39)	0.98 (0.75, 1.28)
P for trend				<0.001	0.470	0.447	0.902

Model 1: non-adjusted, model 2: adjusted for age and sex, model 3: adjusted for age, sex, smoking status, and alcohol consumption, model 4: adjusted for age, sex, smoking status, alcohol consumption, presence of hypertension, dyslipidemia, and BMI.

Supplementary Table 2. Risk of dementia according to severity-weighted IFG exposure score (sensitivity analysis).

	N	Event	Incidence rate	Model 1	Model 2	Model 3	Model 4
All-cause Dementia							
0	614126	2293	0.56	1 (Ref.)	1 (Ref.)	1 (Ref.)	1 (Ref.)
1	283064	1181	0.66	1.12 (1.05, 1.20)	1.00 (0.93, 1.07)	100 (0.93, 1.07)	1.00 (0.93, 1.07)
2	194578	975	0.79	1.35 (1.25, 1.46)	1.10 (1.02, 1.19)	1.10 (1.02, 1.19)	1.10 (1.02, 1.19)
3	116800	636	0.86	1.47 (1.35, 1.60)	1.15 (1.05, 1.25)	1.16 (1.06, 1.264)	1.16 (1.06, 1.26)
4	75207	441	0.93	1.58 (1.43, 1.75)	1.18 (1.06, 1.30)	1.19 (1.07, 1.32)	1.19 (1.07, 1.31)
5	45359	234	0.82	1.40 (1.22, 1.60)	0.99 (0.87, 1.14)	1.01 (0.88, 1.15)	1.00 (0.87, 1.15)
6	27068	171	1.00	1.71 (1.47, 2.00)	1.22 (1.04, 1.42)	1.24 (1.06, 1.45)	1.23 (1.05, 1.44)
7	14032	89	1.00	1.72 (1.39, 2.12)	1.20 (0.97, 1.48)	1.23 (0.99, 1.52)	1.22 (0.99, 1.51)
8	6169	43	1.10	1.89 (1.40, 2.55)	1.22 (0.90, 1.65)	1.26 (0.93, 1.70)	1.24 (0.92, 1.68)
P for trend				<0.001	<0.001	<0.001	<0.001
Alzheimer's Disease							
0	614126	1650	0.42	1 (Ref.)	1 (Ref.)	1 (Ref.)	1 (Ref.)
1	283064	875	0.49	1.16 (1.06, 1.25)	1.02 (0.94, 1.11)	1.03 (0.94, 1.11)	1.03 (0.95, 1.12)
2	194578	716	0.58	1.38 (1.26, 1.50)	1.12 (1.03, 1.22)	1.12 (1.03, 1.23)	1.13 (1.04, 1.24)
3	116800	456	0.62	1.47 (1.32, 1.63)	1.14 (1.03, 1.27)	1.16 (1.04, 1.28)	1.17 (1.05, 1.30)
4	75207	329	0.69	1.64 (1.46, 1.85)	1.22 (1.08, 1.37)	1.24 (1.10, 1.39)	1.25 (1.11, 1.41)
5	45359	174	0.61	1.44 (1.24, 1.69)	1.03 (0.88, 1.20)	1.04 (0.89, 1.22)	1.06 (0.90, 1.24)
6	27068	124	0.73	1.73 (1.44, 2.07)	1.23 (1.03, 1.48)	1.26 (1.05, 1.51)	1.28 (1.07, 1.54)
7	14032	60	0.68	1.61 (1.25, 2.09)	1.13 (0.87, 1.46)	1.16 (0.89, 1.50)	1.18 (0.91, 1.53)
8	6169	35	0.90	2.14 (1.53, 2.99)	1.37 (0.98, 1.92)	1.42 (1.02, 1.99)	1.44 (1.03, 2.01)
P for trend				<0.001	<0.001	<0.001	<0.001
Vascular Dementia							

0	614126	406	0.10	1 (Ref.)	1 (Ref.)	1 (Ref.)	1 (Ref.)
1	283064	192	0.11	1.03 (0.87, 1.22)	0.92 (0.77, 1.09)	0.91 (0.77, 1.09)	0.89 (0.75, 1.05)
2	194578	160	0.13	1.25 (1.04, 1.50)	1.03 (0.86, 1.24)	1.03 (0.85, 1.23)	0.99 (0.82, 1.19)
3	116800	119	0.16	1.55 (1.26, 1.90)	1.21 (0.99, 1.49)	1.21 (0.99, 1.49)	1.15 (0.93, 1.41)
4	75207	68	0.14	1.38 (1.06, 1.78)	1.03 (0.80, 1.33)	1.03 (0.79, 1.33)	0.96 (0.74, 1.24)
5	45359	37	0.13	1.24 (0.89, 1.74)	0.89 (0.64, 1.25)	0.89 (0.63, 1.25)	0.82 (0.58, 1.15)
6	27068	30	0.18	1.70 (1.17, 2.45)	1.19 (0.82, 1.72)	1.19 (0.82, 1.73)	1.09 (0.75, 1.58)
7	14032	17	0.19	1.85 (1.14, 3.00)	1.28 (0.79, 2.08)	1.29 (0.80, 2.10)	1.17 (0.72, 1.91)
8	6169	4	0.10	0.99 (0.37, 2.64)	0.65 (0.24, 1.73)	0.66 (0.25, 1.76)	0.59 (0.22, 1.57)
P for trend				<0.001	0.320	0.320	0.935

Model 1: non-adjusted, model 2: adjusted for age and sex, model 3: adjusted for age, sex, smoking status, and alcohol consumption, model 4: adjusted for age, sex, smoking status, alcohol consumption, presence of hypertension, dyslipidemia, and BMI.