

SUPPLEMENTARY DATA

Supplementary Table 1. Incidence rate and hazard ratio (95%CI) of cardiovascular disease according to status of glucose metabolism for men and women

FSG (mg/dL)	Person-years (PY)	Cases, n	Incidence rate / 100,000 PY	Age-adjusted (N=384,795)	MV-adjusted (N=381,110)
Cardiovascular disease					
< 80	464,843	2,536	545.6	1.0	1.0
80 to 89	1,139,907	7,971	699.3	1.05(1.00-1.09)	0.99(0.95-1.04)
90 to 99	1,145,284	9,956	869.3	1.14(1.09-1.19)	1.00(0.96-1.05)
100 to 109	471,013	5,107	1,084.3	1.26(1.20-1.32)	1.02(0.97-1.07)
110 to 119	132,835	1,806	1,359.6	1.37(1.29-1.45)	1.03(0.96-1.09)
120 to 125	33,822	554	1,638.0	1.55(1.42-1.70)	1.14(1.04-1.26)
>125	247,025	5,443	2,203.4	1.96(1.87-2.06)	1.49(1.42-1.57)
Ischemic heart disease					
< 80	472,335	814	172.3	1.0	1.0
80 to 89	1,164,102	2,583	221.9	1.10(1.01-1.19)	1.04(0.96-1.12)
90 to 99	1,176,586	3,253	276.5	1.19(1.10-1.28)	1.06(0.98-1.14)
100 to 109	486,835	1,712	351.7	1.32(1.22-1.44)	1.11(1.02-1.21)
110 to 119	138,617	610	440.1	1.42(1.28-1.58)	1.13(1.02-1.26)
120 to 125	35,510	191	537.9	1.64(1.40-1.92)	1.28(1.09-1.51)
>125	263,667	2,018	765.4	2.20(2.02-2.39)	1.77(1.63-1.93)
Stroke					
< 80	473,827	588	124.1	1.0	1.0
80 to 89	1,168,189	1,882	161.1	1.02(0.93-1.12)	1.00(0.91-1.09)
90 to 99	1,182,160	2,349	198.7	1.08(0.98-1.18)	1.00(0.91-1.10)
100 to 109	489,940	1,205	245.9	1.17(1.06-1.29)	1.02(0.92-1.12)
110 to 119	139,528	431	308.9	1.24(1.10-1.41)	1.04(0.92-1.18)
120 to 125	35,857	146	407.2	1.53(1.27-1.83)	1.25(1.04-1.50)
>125	267,085	1,488	557.1	1.93(1.75-2.13)	1.60(1.45-1.77)

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Ischemic stroke					
< 80	475,044	298	62.7	1.0	1.0
80 to 89	1,172,289	943	80.4	0.98(0.86-1.12)	0.95(0.83-1.09)
90 to 99	1,187,275	1216	102.4	1.04(0.92-1.18)	0.96(0.84-1.09)
100 to 109	492,472	648	131.6	1.15(1.00-1.32)	0.98(0.85-1.13)
110 to 119	140,332	258	183.8	1.33(1.13-1.57)	1.09(0.92-1.30)
120 to 125	36,107	89	246.5	1.65(1.30-2.09)	1.29(1.01-1.65)
>125	269,404	954	354.1	2.17(1.90-2.48)	1.78(1.56-2.04)
Hemorrhagic stroke					
< 80	475,748	175	36.8	1.0	1.0
80 to 89	1,175,280	468	39.8	0.91(0.76-1.08)	0.91(0.76-1.08)
90 to 99	1,190,937	598	50.2	1.01(0.85-1.19)	0.96(0.81-1.14)
100 to 109	494,557	306	61.9	1.11(0.92-1.34)	0.99(0.82-1.20)
110 to 119	141,222	109	77.2	1.20(0.95-1.53)	1.02(0.80-1.31)
120 to 125	36,411	26	71.4	1.05(0.69-1.59)	0.91(0.60-1.38)
>125	273,004	293	107.3	1.48(1.22-1.80)	1.27(1.04-1.54)

*MV-adjusted covariates: age, systolic blood pressure, anti-hypertensive medication, LDL-cholesterol, HDL-cholesterol, current smoking, body mass index, and family history of cardiovascular disease
 FSG, fasting serum glucose

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Supplementary Table 2. Incidence rate and hazard ratio (95%CI) of cardiovascular disease according to status of glucose metabolism for men

FSG (mg/dL)	Person-years (PY)	Cases, n	Incidence rate / 100,000 PY	Age-adjusted (N=232,764)	MV-adjusted (N=232,764)
Cardiovascular disease					
< 80	287,386	1,577	548.7	1.0	1.0
80 to 89	620,156	4,316	696.0	1.03(0.98-1.10)	0.98(0.92-1.04)
90 to 99	679,256	5,765	848.7	1.13(1.07-1.20)	1.01(0.95-1.07)
100 to 109	319,255	3,209	1,005.2	1.22(1.15-1.29)	1.01(0.95-1.07)
110 to 119	93,696	1,249	1,333.0	1.40(1.30-1.51)	1.10(1.02-1.18)
120 to 125	24,465	362	1,479.7	1.48(1.32-1.65)	1.11(0.99-1.25)
>125	169,987	3,615	2,126.6	1.93(1.82-2.05)	1.51(1.42-1.61)
Ischemic heart disease					
< 80	291,646	569	195.1	1.0	1.0
80 to 89	631,553	1,595	252.6	1.08(0.99-1.19)	1.02(0.92-1.12)
90 to 99	695,479	2,113	303.8	1.18(1.07-1.29)	1.06(0.96-1.16)
100 to 109	328,417	1,186	361.1	1.28(1.15-1.41)	1.10(0.99-1.21)
110 to 119	97,459	467	479.2	1.47(1.30-1.67)	1.21(1.07-1.38)
120 to 125	25,490	137	537.5	1.57(1.30-1.90)	1.26(1.04-1.53)
>125	180,209	1,456	808.0	2.16(1.96-2.39)	1.77(1.60-1.96)
Stroke					
< 80	292,884	353	120.5	1.0	1.0
80 to 89	634,937	963	151.7	0.99(0.87-1.12)	0.97(0.85-1.09)
90 to 99	700,097	1,334	190.5	1.09(0.97-1.22)	1.03(0.91-1.16)
100 to 109	331,090	739	223.2	1.14(1.00-1.29)	1.01(0.89-1.15)
110 to 119	98,265	311	316.5	1.36(1.16-1.58)	1.17(1.00-1.37)
120 to 125	25,867	82	317.0	1.27(1.00-1.62)	1.07(0.83-1.36)
>125	182,951	996	544.4	1.96(1.73-2.21)	1.67(1.47-1.89)

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Ischemic stroke					
< 80	293,550	192	65.4	1.0	1.0
80 to 89	636,863	500	78.5	0.91(0.77-1.08)	0.90(0.76-1.06)
90 to 99	702,718	710	101.0	1.02(0.87-1.20)	0.97(0.83-1.14)
100 to 109	332,544	410	123.3	1.10(0.92-1.30)	0.98(0.82-1.16)
110 to 119	98,839	186	188.2	1.38(1.13-1.70)	1.19(0.97-1.47)
120 to 125	25,997	52	200.0	1.37(1.00-1.86)	1.12(0.81-1.53)
>125	184,560	628	340.3	2.05(1.74-2.42)	1.77(1.50-2.09)
Hemorrhagic stroke					
< 80	294,016	108	36.7	1.0	1.0
80 to 89	638,541	229	35.9	0.82(0.66-1.04)	0.82(0.65-1.04)
90 to 99	704,877	348	49.4	1.03(0.83-1.27)	0.98(0.79-1.22)
100 to 109	333,840	192	57.5	1.09(0.86-1.39)	0.97(0.76-1.23)
110 to 119	99,457	86	86.5	1.43(1.07-1.90)	1.20(0.89-1.60)
120 to 125	26,202	13	49.6	0.78(0.44-1.38)	0.67(0.38-1.20)
>125	186,811	205	109.7	1.58(1.24-2.00)	1.35(1.05-1.72)

*MV-adjusted covariates (model 1): Age, systolic blood pressure, anti-hypertensive medication, LDL-cholesterol, HDL-cholesterol, current smoking, body mass index, and family history of cardiovascular disease
FSG, fasting serum glucose

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Supplementary Table 3. Incidence rate and hazard ratio (95%CI) of cardiovascular disease according to status of glucose metabolism for women

FSG (mg/dL)	Person-years (PY)	Cases, n	Incidence rate / 100,000 PY	Age-adjusted (N=149,182)	MV-adjusted (Model 1) (N=149,182)	MV-adjusted (Model 2) (N=148,346)
Cardiovascular disease						
< 80	177,458	959	540.4	1.0	1.0	1.0
80 to 89	519,751	3,655	703.2	1.07(0.99-1.15)	1.00(0.93-1.08)	1.01(0.94-1.08)
90 to 99	466,028	4,191	899.3	1.14(1.06-1.23)	0.98(0.92-1.06)	0.99(0.92-1.06)
100 to 109	151,758	1,898	1,250.7	1.32(1.22-1.43)	1.03(0.95-1.12)	1.03(0.95-1.12)
110 to 119	39,139	557	1,423.1	1.28(1.15-1.42)	0.89(0.80-1.00)	0.89(0.80-1.00)
120 to 125	9,357	192	2,051.9	1.71(1.46-1.99)	1.20(1.02-1.40)	1.18(1.01-1.38)
>125	77,038	1,828	2,372.8	2.01(1.85-2.17)	1.44(1.33-1.56)	1.38(1.27-1.50)
Ischemic heart disease						
< 80	180,689	245	135.6	1.0	1.0	1.0
80 to 89	532,549	988	185.5	1.13(0.98-1.30)	1.06(0.92-1.22)	1.07(0.93-1.24)
90 to 99	481,107	1,140	237.0	1.21(1.06-1.39)	1.06(0.92-1.22)	1.08(0.94-1.24)
100 to 109	158,418	526	332.0	1.42(1.21-1.65)	1.15(0.98-1.34)	1.15(0.98-1.34)
110 to 119	41,158	143	347.4	1.26(1.03-1.55)	0.94(0.76-1.16)	0.94(0.76-1.16)
120 to 125	10,021	54	538.9	1.83(1.36-2.45)	1.34(1.00-1.81)	1.30(0.96-1.76)
>125	83,458	562	673.4	2.29(1.97-2.67)	1.76(1.51-2.06)	1.61(1.37-1.88)
Stroke						
< 80	180,943	235	129.9	1.0	1.0	1.0
80 to 89	533,252	919	172.3	1.07(0.92-1.23)	1.02(0.88-1.18)	1.02(0.88-1.18)
90 to 99	482,063	1,015	210.6	1.07(0.92-1.23)	0.96(0.83-1.11)	0.96(0.83-1.11)
100 to 109	158,849	466	293.4	1.22(1.04-1.42)	1.01(0.86-1.19)	1.02(0.86-1.19)
110 to 119	41,263	120	290.8	1.01(0.81-1.26)	0.80(0.64-1.00)	0.80(0.64-1.00)
120 to 125	9,990	64	640.7	1.01(0.81-1.26)	1.57(1.18-2.08)	1.55(1.17-2.06)
>125	84,134	492	584.8	2.04(1.54-2.69)	1.46(1.24-1.72)	1.43(1.21-1.68)

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Ischemic stroke						
< 80	181,495	106	58.4	1.0	1.0	1.0
80 to 89	535,426	443	82.7	1.09(0.88-1.35)	1.02(0.83-1.27)	1.03(0.83-1.27)
90 to 99	484,558	506	104.4	1.09(0.88-1.34)	0.95(0.77-1.18)	0.95(0.77-1.18)
100 to 109	159,928	238	148.8	1.23(0.98-1.55)	0.98(0.78-1.24)	0.99(0.78-1.25)
110 to 119	41,493	72	173.5	1.18(0.88-1.60)	0.89(0.66-1.21)	0.90(0.66-1.22)
120 to 125	10,110	37	366.0	2.25(1.55-3.28)	1.64(1.12-2.41)	1.62(1.11-2.38)
>125	84,844	326	384.2	2.39(1.91-2.98)	1.78(1.42-2.24)	1.73(1.38-2.17)
Hemorrhagic stroke						
< 80	181,732	67	36.9	1.0	1.0	1.0
80 to 89	536,739	239	44.5	1.01(0.77-1.32)	1.00(0.76-1.32)	1.01(0.76-1.32)
90 to 99	486,059	250	51.4	0.98(0.75-1.29)	0.92(0.70-1.22)	0.93(0.70-1.22)
100 to 109	160,717	114	70.9	1.13(0.83-1.53)	1.02(0.74-1.39)	1.02(0.75-1.39)
110 to 119	41,764	23	55.1	0.75(0.47-1.21)	0.64(0.40-1.04)	0.64(0.40-1.04)
120 to 125	10,210	13	127.3	1.61(0.89-2.93)	1.35(0.74-2.46)	1.35(0.74-2.46)
>125	86,193	88	102.1	1.30(0.94-1.80)	1.09(0.78-1.53)	1.09(0.78-1.52)

*MV-adjusted covariates (model 1): Age, systolic blood pressure, anti-hypertensive medication, LDL-cholesterol, HDL-cholesterol, current smoking, body mass index, and family history of cardiovascular disease

*MV-adjusted covariates (model 2): Age, systolic blood pressure, anti-hypertensive medication, LDL-cholesterol, HDL-cholesterol, current smoking, body mass index, family history of cardiovascular disease, and menopause status