

Supplementary table 1. Odds and 95% Confidence Interval (CI) of CVD for the Specific Combination of MetS Traits Relative to Individual Without That Combination

model	MetS Traits							No. of Subjects (%)	CHD		Stroke	
	Hyperglycemia (glucose≥5.6)	Hyperglycemia (glucose≥6.1)	Hypertrigly- ceridemia	Central obesity (Waist≥90/80)	Central obesity (Waist ≥102/88)	Elevated BP	Low HDL		Crude OR (95%CI)	Adj-OR (95%CI)	Crude OR (95%CI)	Adj-OR (95%CI)
1. MetS component												
1.1	*							43004(39.3)	1.41(1.35-1.48)	1.17(1.12-1.22)	1.34(1.28-1.40)	1.06(1.02-1.11)
1.2		*						24595(22.5)	1.57(1.49-1.65)	1.27(1.21-1.34)	1.48(1.41-1.55)	1.15(1.10-1.21)
1.3			*					43572(39.8)	1.27(1.21-1.33)	1.25(1.20-1.31)	0.97(0.93-1.01)	0.99(0.95-1.06)
1.4				*				60963(55.6)	1.42(1.36-1.49)	1.16(1.11-1.22)	1.30(1.24-1.36)	1.25(1.19-1.31)
1.5					*			23823(21.7)	1.48(1.41-1.56)	1.16(1.09-1.22)	1.30(1.24-1.37)	1.22(1.15-1.29)
1.6						*		72474(66.2)	1.64(1.55-1.72)	1.28(1.21-1.35)	2.90(2.73-3.07)	1.95(1.84-2.07)
1.7							*	33471(30.6)	1.75(1.67-1.83)	1.73(1.64-1.81)	0.91(0.87-0.95)	1.02(0.97-1.07)
2. MetS component												
2.1	*		*					19209(17.5)	1.52(1.44-1.60)	1.23(1.23-1.37)	1.22(1.16-1.29)	1.05(0.99-1.11)
2.2	*			*				26499(24.2)	1.56(1.48-1.63)	1.22(1.16-1.28)	1.36(1.29-1.42)	1.12(1.07-1.18)
2.3	*				*			11586(10.6)	1.66(1.56-1.76)	1.24(1.16-1.32)	1.32(1.24-1.41)	1.11(1.04-1.19)
2.4	*					*		32001(29.2)	1.51(1.44-1.58)	1.20(1.14-1.26)	1.64(1.57-1.71)	1.22(1.17-1.28)
2.5	*						*	13658(12.5)	1.93(1.82-2.04)	1.63(1.54-1.73)	1.16(1.09-1.24)	1.07(1.00-1.14)
2.6		*	*					11874(10.8)	1.65(1.55-1.75)	1.36(1.28-1.45)	1.37(1.29-1.46)	1.13(1.05-1.20)
2.7		*		*				15988(14.6)	1.70(1.61-1.80)	1.32(1.25-1.40)	1.48(1.40-1.56)	1.18(1.11-1.25)
2.8		*			*			7373(6.7)	1.75(1.62-1.88)	1.28(1.19-1.39)	1.39(1.29-1.50)	1.13(1.04-1.23)
2.9		*				*		19161(17.5)	1.63(1.55-1.72)	1.30(1.23-1.37)	1.67(1.59-1.76)	1.25(1.19-1.32)
2.10		*					*	8294(7.6)	2.10(1.96-2.24)	1.69(1.58-1.82)	1.38(1.29-1.49)	1.19(1.10-1.29)
2.11			*	*				26102(23.8)	1.49(1.42-1.57)	1.31(1.24-1.37)	1.19(1.13-1.25)	1.15(1.09-1.21)
2.12			*		*			10723(9.8)	1.67(1.56-1.78)	1.31(1.23-1.41)	1.34(1.26-1.43)	1.22(1.13-1.31)

2.13		*		*	29425(26.9)	1.63(1.56-1.71)	1.44(1.37-1.51)	1.44(1.37-1.50)	1.24(1.18-1.30)
2.14		*		*	18484(16.9)	1.55(1.47-1.64)	1.50(1.42-1.59)	0.92(0.87-0.98)	1.00(0.94-1.06)
2.15			*	*	44128(40.3)	1.59(1.52-1.67)	1.25(1.187-1.31)	1.73(1.65-1.80)	1.43(1.36-1.49)
2.16			*	*	21208(19.4)	1.78(1.70-1.88)	1.61(1.53-1.70)	1.03(0.97-1.09)	1.07(1.01-1.14)
2.17				*	18652(17.0)	1.57(1.49-1.66)	1.19(1.12-1.26)	1.50(1.42-1.58)	1.30(1.22-1.37)
2.18				*	9175(8.4)	1.88(1.76-2.01)	1.53(1.43-1.64)	1.16(1.08-1.25)	1.12(1.03-1.21)
2.19				*	21337(19.5)	1.91(1.82-2.01)	1.65(1.57-1.74)	1.34(1.27-1.41)	1.24(1.18-1.31)
3. MetS component									
3.1	*	*	*		12730(11.6)	1.66(1.57-1.77)	1.34(1.26-1.42)	1.31(1.23-1.39)	1.11(1.04-1.18)
3.2	*	*		*	5850(5.3)	1.85(1.70-2.00)	1.38(1.27-1.50)	1.35(1.24-1.47)	1.13(1.03-1.24)
3.3	*	*		*	14523(13.3)	1.66(1.57-1.76)	1.36(1.28-1.44)	1.48(1.40-1.57)	1.19(1.12-1.26)
3.4	*	*		*	8152(7.4)	1.92(1.80-2.06)	1.61(1.50-1.73)	1.18(1.09-1.27)	1.07(0.98-1.16)
3.5	*		*	*	20770(19.0)	1.65(1.57-1.73)	1.27(1.20-1.34)	1.55(1.47-1.63)	1.21(1.15-1.28)
3.6	*		*	*	9525(8.7)	2.01(1.89-2.14)	1.61(1.51-1.72)	1.22(1.14-1.31)	1.09(1.01-1.18)
3.7	*			*	9486(8.7)	1.71(1.60-1.82)	1.25(1.17-1.35)	1.45(1.35-1.55)	1.28(1.19-1.37)
3.8	*			*	4664(4.3)	2.08(1.91-2.27)	1.57(1.43-1.72)	1.22(1.11-1.35)	1.16(1.04-1.28)
3.9		*	*	*	8218(7.5)	1.79(1.67-1.92)	1.40(1.31-1.51)	1.40(1.31-1.51)	1.23(1.14-1.33)
3.10		*	*	*	3978(3.6)	1.91(1.74-2.10)	1.41(1.27-1.55)	1.44(1.30-1.59)	1.27(1.14-1.41)
3.11		*	*	*	9405(8.6)	1.74(1.63-1.86)	1.41(1.31-1.51)	1.58(1.48-1.69)	1.36(1.27-1.45)
3.12		*	*	*	5194(4.7)	2.09(1.92-2.26)	1.67(1.53-1.81)	1.37(1.25-1.50)	1.26(1.15-1.39)
3.13		*		*	12920(11.8)	1.77(1.67-1.88)	1.36(1.273-1.44)	1.61(1.52-1.71)	1.39(1.31-1.48)
3.14		*		*	6029(5.5)	2.15(1.99-2.32)	1.66(1.534-1.80)	1.41(1.30-1.53)	1.31(1.20-1.43)
3.15		*		*	6176(5.6)	1.77(1.64-1.92)	1.29(1.19-1.40)	1.48(1.37-1.61)	1.30(1.19-1.41)
3.16		*		*	3096(2.8)	2.12(1.91-2.35)	1.56(1.40-1.73)	1.32(1.18-1.49)	1.23(1.09-1.39)
3.17		*		*	19335(17.6)	1.72(1.64-1.82)	1.43(1.35-1.51)	1.49(1.42-1.57)	1.33(1.26-1.40)
3.18		*		*	12056(11.0)	1.70(1.60-1.81)	1.51(1.41-1.60)	1.06(0.99-1.14)	1.08(1.01-1.16)

3.19		*		*	*	8608(7.9)	1.78(1.66-1.91)	1.36(1.26-1.46)	1.51(1.41-1.62)	1.33(1.24-1.43)
3.20		*		*	*	5282(4.8)	1.88(1.73-2.05)	1.49(1.36-1.62)	1.25(1.14-1.37)	1.20(1.09-1.33)
3.21			*		*	14726(13.4)	1.96(1.85-2.07)	1.62(1.53-1.72)	1.32(1.25-1.40)	1.26(1.18-1.34)
3.22				*	*	7037(6.4)	1.99(1.85-2.14)	1.54(1.43-1.66)	1.34(1.24-1.45)	1.26(1.16-1.37)
4. MetS component										
4.1	*		*		*	10101(9.2)	1.79(1.67-1.91)	1.41(1.31-1.50)	1.50(1.41-1.61)	1.30(1.21-1.39)
4.2	*		*	*		5809(5.3)	2.06(1.90-2.22)	1.63 (1.51-1.77)	1.25(1.14-1.36)	1.16(1.06-1.27)
4.3	*		*		*	4854(4.4)	1.91(1.75-2.08)	1.41(1.29-1.55)	1.46(1.33-1.60)	1.27(1.15-1.39)
4.4	*		*		*	2889(2.6)	2.16(1.94-2.40)	1.60(1.43-1.79)	1.24(1.10-1.41)	1.15(1.01-1.31)
4.5		*	*	*		6720(6.1)	1.89(1.75-2.03)	1.47(1.36-1.59)	1.57(1.45-1.70)	1.36(1.25-1.47)
4.6		*	*	*		3840(3.5)	2.16(1.97-2.37)	1.65(1.50-1.82)	1.41(1.28-1.57)	1.28(1.15-1.42)
4.7		*	*		*	3370(3.1)	1.96(1.77-2.16)	1.44(1.29-1.60)	1.52(1.36-1.69)	1.32(1.18-1.47)
4.8		*	*		*	2003(1.8)	2.14 (1.89-2.43)	1.56(1.36-1.77)	1.37(1.19-1.58)	1.24(1.07-1.44)
4.9			*	*	*	8593(7.8)	1.97(1.84-2.11)	1.62(1.51-1.74)	1.35(1.25-1.45)	1.26(1.17-1.36)
4.10			*	*	*	4147(3.8)	2.03(1.85-2.22)	1.54(1.40-1.69)	1.42(1.29-1.57)	1.31(1.18-1.45)

# The ORs are shown for person with the metabolic syndrome trait combination specific compared with persons without that combination.

Adjusted for sex, age (40-49, 50-59, ≥60), marital status, education, physical activity (3 times/weeks and ≥30 minutes/times or is industrial and agriculture labor), current smoking (yes, no), current drinking (yes, no), family history of CHD, family history of stroke, family history of hypertension

CHD = coronary heart disease; AF =atrial fibrillation; MetS = Metabolic syndrome

Supplementary table 1. (continued). Crude Odds<sup>#</sup>and multi-adjusted odds<sup>#</sup> and 95% Confidence Interval (CI) of CVD and Diabetes mellitus for the Specific Combination of MetS Traits Relative to Individual Without That

		Combination										
model	MetS Traits							No. of Subjects (%)	AF		CHD or stroke or AF	
	Hyperglycemia (glucose≥5.6)	Hyperglycemia (glucose≥6.1)	Hypertrigly- ceridemia	Central obesity (Waist≥90/80)	Central obesity (Waist ≥102/88)	Elevated BP	Low HDL		Crude OR (95%CI)	Adj-OR (95%CI)	Crude OR (95%CI)	Adj-OR (95%CI)
1. MetS component												
1.1	*							43004(39.3)	1.33(1.27-1.40)	1.08(1.03-1.14)	1.42(1.37-1.46)	1.14(1.10-1.18)
1.2		*						24595(22.5)	1.44(1.36-1.52)	1.13(1.07-1.20)	1.59(1.53-1.64)	1.24(1.20-1.29)
1.3			*					43572(39.8)	0.94(0.89-0.99)	0.92(0.88-0.97)	1.07(1.04-1.11)	1.07(1.04-1.11)
1.4				*				60963(55.6)	1.30(1.23-1.37)	1.07(1.01-1.13)	1.36(1.32-1.40)	1.18(1.14-1.22)
1.5					*			23823(21.7)	1.46(1.38-1.55)	1.13(1.06-1.20)	1.45(1.41-1.51)	1.20(1.15-1.25)
1.6						*		72474(66.2)	1.86(1.75-1.98)	1.35(1.27-1.43)	2.18(2.10-2.26)	1.56(1.50-1.62)
1.7							*	33471(30.6)	1.09(1.03-1.15)	1.06(1.00-1.12)	1.25(1.21-1.29)	1.31(1.26-1.35)
2. MetS component												
2.1	*		*					19209(17.5)	1.20(1.12-1.27)	1.01(0.95-1.08)	1.37(1.32-1.42)	1.16(1.11-1.20)
2.2	*			*				26499(24.2)	1.36(1.29-1.44)	1.05(0.99-1.11)	1.48(1.43-1.53)	1.17(1.13-1.21)
2.3	*				*			11586(10.6)	1.51(1.40-1.62)	1.10(1.02-1.18)	1.55(1.48-1.62)	1.19(1.13-1.24)
2.4	*					*		32001(29.2)	1.46(1.38-1.54)	1.12(1.06-1.18)	1.63(1.57-1.68)	1.23(1.19-1.27)
2.5	*						*	13658(12.5)	1.26(1.17-1.35)	1.09(0.97-1.12)	1.52(1.46-1.58)	1.32(1.26-1.38)
2.6		*	*					11874(10.8)	1.32(1.22-1.42)	1.06(0.98-1.15)	1.54(1.48-1.61)	1.25(1.19-1.31)
2.7		*		*				15988(14.6)	1.41(1.32-1.50)	1.06(0.99-1.13)	1.63(1.56-1.69)	1.25(1.20-1.30)
2.8		*			*			7373(6.7)	1.57(1.44-1.71)	1.11(1.02-1.22)	1.65(1.57-1.74)	1.23(1.16-1.30)
2.9		*				*		19161(17.5)	1.52(1.43-1.61)	1.15(1.08-1.22)	1.72(1.66-1.79)	1.30(1.25-1.35)
2.10		*					*	8294(7.6)	1.43(1.33-1.55)	1.12(1.03-1.22)	1.75(1.67-1.84)	1.43(1.36-1.51)
2.11			*	*				26102(23.8)	1.16(1.09-1.22)	1.01(0.95-1.07)	1.32(1.27-1.36)	1.19(1.15-1.24)

2.12		*		*		10723(9.8)	1.48(1.38-1.60)	1.15(1.06-1.24)	1.57(1.50-1.64)	1.29(1.23-1.35)
2.13		*			*	29425(26.9)	1.25(1.18-1.32)	1.61(1.01-1.13)	1.52(1.48-1.57)	1.31(1.27-1.36)
2.14		*			*	18484(16.9)	1.01(0.94-1.07)	0.97(0.90-1.03)	1.19(1.15-1.24)	1.21(1.16-1.27)
2.15			*		*	44128(40.3)	1.53(1.45-1.61)	1.16(1.10-1.22)	1.68(1.63-1.74)	1.32(1.28-1.36)
2.16			*		*	21208(19.4)	1.25(1.18-1.33)	1.11(1.04-1.18)	1.38(1.33-1.43)	1.33(1.27-1.38)
2.17				*	*	18652(17.0)	1.58(1.49-1.68)	1.16(1.09-1.24)	1.62(1.56-1.68)	1.26(1.21-1.31)
2.18				*	*	9175(8.4)	1.43(1.32-1.55)	1.13(1.04-1.23)	1.56(1.48-1.64)	1.34(1.27-1.42)
2.19					*	21337(19.5)	1.40(1.32-1.48)	1.17(1.10-1.24)	1.63(1.57-1.69)	1.44(1.38-1.49)
3. MetS component										
3.1	*		*		*	12730(11.6)	1.26(1.18-1.36)	1.00(0.93-1.08)	1.49(1.42-1.55)	1.20(1.15-1.26)
3.2	*		*		*	5850(5.3)	1.51(1.37-1.66)	1.10(1.00-1.21)	1.65(1.55-1.75)	1.26(1.18-1.34)
3.3	*		*		*	14523(13.3)	1.34(1.25-1.43)	1.07(1.00-1.14)	1.59(1.53-1.66)	1.27(1.21-1.32)
3.4	*		*		*	8152(7.4)	1.25(1.14-1.36)	1.03(0.94-1.12)	1.54(1.46-1.62)	1.32(1.25-1.39)
3.5	*			*	*	20770(19.0)	1.45(1.37-1.54)	1.08(1.02-1.15)	1.64(1.58-1.70)	1.24(1.19-1.29)
3.6	*		*		*	9525(8.7)	1.35(1.24-1.46)	1.06(0.97-1.15)	1.61(1.53-1.69)	1.33(1.29-1.41)
3.7	*			*	*	9486(8.7)	1.59(1.48-1.72)	1.13(1.04-1.22)	1.66(1.58-1.74)	1.23(1.16-1.29)
3.8	*			*	*	4664(4.3)	1.50(1.35-1.67)	1.10(0.99-1.23)	1.68(1.57-1.79)	1.32(1.23-1.42)
3.9		*	*	*		8218(7.5)	1.33(1.22-1.44)	1.02(0.93-1.11)	1.61(1.53-1.69)	1.26(1.19-1.33)
3.10		*	*		*	3978(3.6)	1.54(1.37-1.72)	1.09(0.97-1.23)	1.72(1.61-1.85)	1.29(1.19-1.39)
3.11		*	*		*	9405(8.6)	1.40(1.29-1.52)	1.09(1.01-1.18)	1.71(1.63-1.79)	1.34(1.27-1.41)
3.12		*	*		*	5194(4.7)	1.38(1.24-1.53)	1.07(0.96-1.19)	1.74(1.64-1.86)	1.41(1.32-1.50)
3.13		*		*	*	12920(11.8)	1.48(1.38-1.59)	1.09(1.02-1.17)	1.74(1.67-1.81)	1.30(1.24-1.36)
3.14		*		*	*	6029(5.5)	1.43(1.30-1.58)	1.07(0.97-1.19)	1.79(1.69-1.90)	1.41(1.33-1.50)
3.15		*		*	*	6176(5.6)	1.64(1.50-1.80)	1.15(1.04-1.28)	1.73(1.63-1.83)	1.26(1.18-1.34)
3.16		*		*	*	3096(2.8)	1.58(1.39-1.79)	1.13(0.99-1.28)	1.77(1.64-1.92)	1.34(1.24-1.46)
3.17		*		*	*	19335(17.6)	1.35(1.27-1.46)	1.09(1.03-1.16)	1.61(1.55-1.67)	1.34(1.28-1.39)

3.18		*	*		*	12056(11.0)	1.16(1.08-1.25)	1.02(0.94-1.10)	1.36(1.30-1.72)	1.28(1.21-1.34)
3.19		*		*	*	8608(7.9)	1.61(1.49-1.74)	1.19(1.10-1.29)	1.74(1.65-1.83)	1.35(1.28-1.43)
3.20		*		*	*	5282(4.8)	1.40(1.27-1.56)	1.08(0.97-1.20)	1.62(1.52-1.72)	1.35(1.27-1.45)
3.21			*		*	14726(13.4)	1.48(1.39-1.58)	1.19(1.11-1.27)	1.66(1.60-1.73)	1.42(1.36-1.48)
3.22				*	*	7037(6.4)	1.57(1.44-1.72)	1.17(1.07-1.28)	1.74(1.65-1.84)	1.40(1.32-1.48)
4. MetS component										
4.1	*		*		*	10101(9.2)	1.37(1.27-1.48)	1.05(0.97-1.13)	1.66(1.58-1.74)	1.29(1.23-1.36)
4.2	*		*		*	5809(5.3)	1.33(1.20-1.47)	1.03(0.93-1.14)	1.65(1.55-1.75)	1.35(1.26-1.43)
4.3	*		*		*	4854(4.4)	1.59(1.44-1.77)	1.14(1.02-1.26)	1.76(1.65-1.87)	1.30(1.22-1.40)
4.4	*		*		*	2889(2.6)	1.49(1.31-1.70)	1.08(0.94-1.23)	1.73(1.59-1.88)	1.33(1.22-1.45)
4.5		*	*		*	6720(6.1)	1.40(1.27-1.53)	1.05(0.96-1.15)	1.75(1.66-1.85)	1.34(1.27-1.42)
4.6		*	*		*	3840(3.5)	1.37(1.22-1.55)	1.02(0.90-1.16)	1.78(1.66-1.91)	1.38(1.28-1.49)
4.7		*	*		*	3370(3.1)	1.61(1.43-1.82)	1.13(1.00-1.28)	1.81(1.68-1.95)	1.33(1.23-1.44)
4.8		*	*		*	2003(1.8)	1.55(1.33-1.81)	1.09(0.93-1.14)	1.78(1.62-1.97)	1.33(1.20-1.48)
4.9			*		*	8593(7.8)	1.37(1.26-1.48)	1.09(1.00-1.19)	1.66(1.58-1.75)	1.41(1.34-1.49)
4.10			*		*	4147(3.8)	1.53(1.36-1.70)	1.11(0.99-1.25)	1.81(1.69-1.94)	1.42(1.32-1.53)

# The ORs are shown for person with the metabolic syndrome trait combination specific compared with persons without that combination.

Adjusted for sex, age (40-49, 50-59, ≥60), marital status, education, physical activity (3 times/weeks and ≥30 minutes/times or is industrial and agriculture labor), current smoking (yes, no), current drinking (yes, no), family history of CHD, family history of stroke, family history of hypertension

CHD = coronary heart disease; AF =atrial fibrillation; MetS = Metabolic syndrome