

Equations for New Sex and Race/Ethnic-Specific Metabolic Syndrome Severity Score

Adolescent (Ages 12-19 Years)

Males																						
Non-Hispanic White	=	-4.9310	+	0.2804	*	BMI Z-score	-	0.0257	*	HDL	+	0.0189	*	SBP	+	0.6240	*	ln(Tri)	+	0.0140	*	Glu
Non-Hispanic Black	=	-4.7544	+	0.2401	*	BMI Z-score	-	0.0284	*	HDL	+	0.0134	*	SBP	+	0.6773	*	ln(Tri)	+	0.0179	*	Glu
Hispanic	=	-3.2971	+	0.2930	*	BMI Z-score	-	0.0315	*	HDL	+	0.0109	*	SBP	+	0.6137	*	ln(Tri)	+	0.0095	*	Glu
Females																						
Non-Hispanic White	=	-4.3757	+	0.4849	*	BMI Z-score	-	0.0176	*	HDL	+	0.0257	*	SBP	+	0.3172	*	ln(Tri)	+	0.0083	*	Glu
Non-Hispanic Black	=	-3.7145	+	0.5136	*	BMI Z-score	-	0.0190	*	HDL	+	0.0131	*	SBP	+	0.4442	*	ln(Tri)	+	0.0108	*	Glu
Hispanic	=	-4.7637	+	0.3520	*	BMI Z-score	-	0.0263	*	HDL	+	0.0152	*	SBP	+	0.6910	*	ln(Tri)	+	0.0133	*	Glu

Adult (Ages 20+ Years)

Males																						
Non-Hispanic White	=	-5.4559	+	0.0125	*	WC	-	0.0251	*	HDL	+	0.0047	*	SBP	+	0.8244	*	ln(Tri)	+	0.0106	*	Glu
Non-Hispanic Black	=	-6.3767	+	0.0232	*	WC	-	0.0175	*	HDL	+	0.0040	*	SBP	+	0.5400	*	ln(Tri)	+	0.0203	*	Glu
Hispanic	=	-5.5541	+	0.0135	*	WC	-	0.0278	*	HDL	+	0.0054	*	SBP	+	0.8340	*	ln(Tri)	+	0.0105	*	Glu
Females																						
Non-Hispanic White	=	-7.2591	+	0.0254	*	WC	-	0.0120	*	HDL	+	0.0075	*	SBP	+	0.5800	*	ln(Tri)	+	0.0203	*	Glu
Non-Hispanic Black	=	-7.1913	+	0.0304	*	WC	-	0.0095	*	HDL	+	0.0054	*	SBP	+	0.4455	*	ln(Tri)	+	0.0225	*	Glu
Hispanic	=	-7.7641	+	0.0162	*	WC	-	0.0157	*	HDL	+	0.0084	*	SBP	+	0.8872	*	ln(Tri)	+	0.0206	*	Glu

Abbreviations and Units:

BMI z-score: Body mass index z-score (calculated from height and weight)

WC: Waist circumference (cm)

HDL: High-density lipoprotein (mg/dL)

SBP: Systolic blood pressure (mm Hg)

Tri: Triglycerides (mg/dL)

Glu: Fasting blood glucose (mg/dL)