

SUPPLEMENTARY DATA

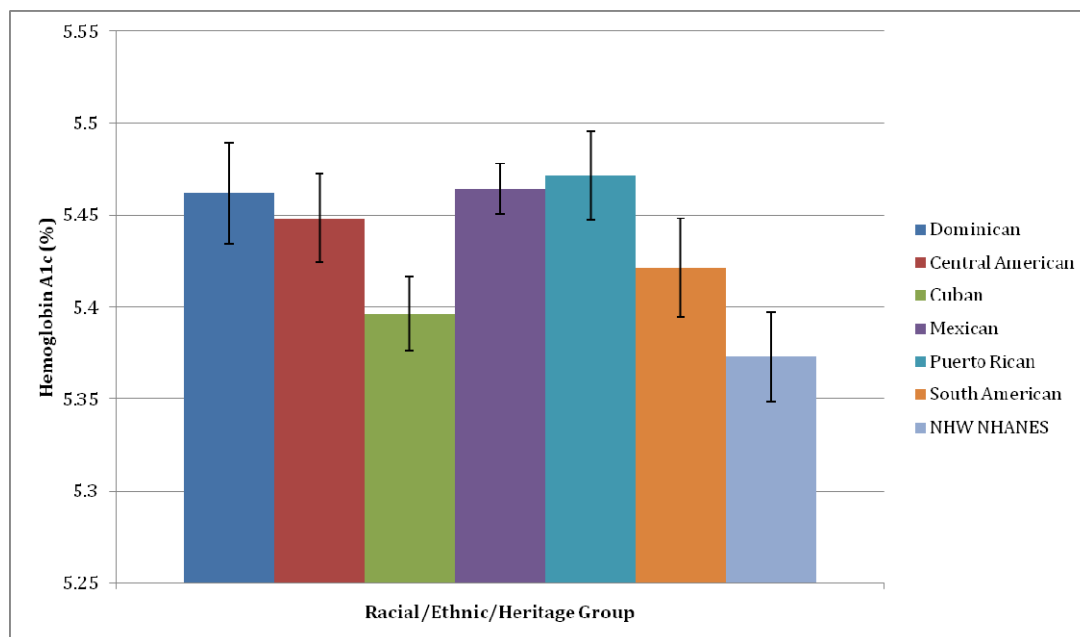
Supplementary Table 1. Betas of Covariates Associated with HbA_{1c} Levels among HCHS/SOL and NHANES participants

Adjustment Variables	Betas* (95% confidence intervals)
Intercept	4.5661 (4.3468, 4.7855)
Heritage:	
Dominican	Ref
Central American	-0.0052 (-0.0427, 0.0324)
Cuban	-0.0479 (-0.0820, -0.0139)
Mexican	-0.0024 (-0.0336, 0.0287)
Puerto Rican	0.0186 (-0.0164, 0.0537)
South American	-0.0399 (-0.0807, 0.0009)
Non-Hispanic White	-0.1025 (-0.1397, -0.0653)
Sex:	
Women	Ref
Men	0.1682 (0.1003, 0.2361)
Age, years	0.0093 (0.0080, 0.0105)
Age*sex interaction	-0.0035 (-0.0049, -0.0020)
Body mass index, kg/m ²	0.0036 (0.0022, 0.0050)
Fasting plasma glucose, mg/dL	0.0130 (0.0108, 0.0152)
2-hour plasma glucose, mg/dL	0.0020 (0.0016, 0.0023)
Fasting plasma insulin, μU/mL	0.0007 (-0.0007, 0.0020)
Hemoglobin, g/dL	-0.0278 (-0.0382, -0.0175)
Mean corpuscular volume, fL	-0.0068 (-0.0085, -0.0052)
Systolic blood pressure, mm Hg	-0.0003 (-0.0012, 0.0006)
Diastolic blood pressure, mm Hg	-0.0003 (-0.0014, 0.0008)
Alanine aminotransferase, U/L	0.0007 (0.0000, 0.0014)
Aspartate aminotransferase, U/L	-0.0009 (-0.0019, 0.0000)
Gamma glutamyl transferase, U/L	0.0001 (-0.0001, 0.0003)

*Betas indicate the difference in HbA_{1c} levels for each category of categorical variables (heritage and sex) or for each one unit higher level of continuous variables

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Supplementary Figure 1. All-covariate-adjusted mean HbA_{1c} Levels* by Racial/Ethnic/Heritage Group



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Supplementary Table 2. All-covariate-adjusted mean HbA_{1c}* by Racial/ Heritage Group and Diabetes Status Category

Diabetes Status Categories	Hispanic Community Health Study/Study of Latinos (HCHS/SOL) March 2008 – June 2011						NHANES 2007-2012	
	Dominican (N=1,220)	Central American (N=1,485)	Cuban (N=1,991)	Mexican (N=5,426)	Puerto Rican (N=2,016)	South American (N=945)	All Hispanics/ Latinos (N=13,518)	Non-Hispanic White (N=2,242)
Normal Glucose Tolerance	5.34 (5.31-5.37)	5.33 (5.30-5.35)	5.30 (5.28-5.32)	5.35 (5.33-5.37)	5.35 (5.33-5.38)	5.32 (5.29-5.35)	5.34 (5.33-5.35)	5.26 (5.24-5.28)
Pre-diabetes	5.63 (5.58-5.68)	5.59 (5.55-5.63)	5.52 (5.49-5.55)	5.60 (5.58-5.63)	5.58 (5.53-5.64)	5.56 (5.51-5.60)	5.58 (5.57-5.60)	5.49 (5.45-5.53)
Unrecognized Diabetes Mellitus	6.23 (6.11-6.35)	6.32 (6.21-6.43)	6.05 (5.94-6.15)	6.21 (6.14-6.28)	6.30 (6.18-6.42)	6.11 (5.90-6.33)	6.18 (6.14-6.23)	6.17 (6.05-6.30)

Data presented as means in NGSP units, and 95% confidence intervals in parentheses. HCHS/SOL and NHANES datasets were analyzed separately. As a result, NHANES results were unadjusted.

* Adjusted for sex, age, body mass index, fasting plasma glucose, 2-hour plasma glucose, fasting plasma insulin, hemoglobin, mean corpuscular volume, systolic blood pressure, diastolic blood pressure, alanine aminotransferase, aspartate aminotransferase, and gamma glutamyl transferase

Glycemic categories include normal glucose tolerance (FPG < 5.6 mmol/L and 2hPG < 7.8 mmol/L), pre-diabetes (FPG = 5.6-7.0 mmol/L and/or 2hPG = 7.8-11.1 mmol/L) and unrecognized diabetes mellitus (FPG ≥ 7.1 mmol/L and/or 2hPG ≥ 11.2 mmol/L).

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Supplementary Table3. Betas of Covariates Associated with HbA1c, Stratified by Dataset

Adjustment Variables	Hispanic Community Health Study/ Study of Latinos (HCHS/SOL) March 2008 – June 2011	NHANES 2007-2012
Intercept	4.7595 (4.5824, 4.9365)	4.5440 (4.1850, 4.9030)
Heritage:		
Dominican	Ref	Not applicable
Central American	-0.0128 (-0.0496, 0.0239)	Not applicable
Cuban	-0.0646 (-0.0977, -0.0315)	Not applicable
Mexican	0.0032 (-0.0272, 0.0336)	Not applicable
Puerto Rican	0.0100 (-0.0240, 0.0441)	Not applicable
South American	-0.0393 (-0.0786, 0.0001)	Not applicable
Sex:		
Women	Ref	Ref
Men	0.1513 (0.0913, 0.2113)	0.1356 (0.0186, 0.2527)
Age, years	0.0104 (0.0094, 0.0115)	0.0085 (0.0066, 0.0105)
Age*sex interaction	-0.0029 (-0.0042, -0.0016)	-0.0032 (-0.0056, -0.0008)
Body mass index, kg/m ²	0.0051 (0.0034, 0.0068)	0.0007 (-0.0015, 0.0030)
Fasting plasma glucose, mg/dL	0.0123 (0.0109, 0.0136)	0.0140 (0.0107, 0.0173)
2-hour plasma glucose, mg/dL	0.0021 (0.0018, 0.0024)	0.0017 (0.0011, 0.0023)
Fasting plasma insulin, μU/mL	0.0024 (0.0008, 0.0039)	-0.0004 (-0.0024, 0.0017)
Hemoglobin, g/dL	-0.0010 (-0.0111, 0.0091)	-0.0194 (-0.0379, -0.0008)
Mean corpuscular volume, fL	-0.0410 (-0.0463, -0.0356)	-0.0082 (-0.0115, -0.0048)
Systolic blood pressure, mm Hg	-0.0012 (-0.0021, -0.0004)	0.0003 (-0.0012, 0.0017)
Diastolic blood pressure, mm Hg	0.0007 (-0.0006, 0.0020)	-0.0015 (-0.0031, 0.0002)
Alanine aminotransferase, U/L	0.0000 (-0.0006, 0.0007)	0.0010 (-0.0006, 0.0027)
Aspartate aminotransferase, U/L	-0.00020 (-0.0010, 0.0006)	-0.0013 (-0.0035, 0.0010)
Gamma glutamyl transferase, U/L	0.00010 (-0.0001, 0.0003)	-0.0001 (-0.0007, 0.0005)

Betas indicate the difference in HbA1c levels for each category of categorical variables (heritage and sex) or for each one unit higher level of continuous variables. HCHS/SOL and NHANES datasets were analyzed separately.

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Supplementary Table 4. Unadjusted and Adjusted Mean HbA1c (%) by Hispanic Heritage Group

Adjustment Variables	Hispanic Community Health Study/Study of Latinos (HCHS/SOL) March 2008 – June 2011					
	Dominican (N=1,220)	Central American (N=1,485)	Cuban (N=1,991)	Mexican (N=5,426)	Puerto Rican (N=2,016)	South American (N=945)
Unadjusted	5.45 (5.41-5.49)	5.50 (5.45-5.54)	5.49 (5.46-5.53)	5.51 (5.47-5.54)	5.51 (5.48-5.54)	5.46 (5.42-5.49)
Sex	5.45 (5.41-5.49)	5.50 (5.45-5.54)	5.49 (5.46-5.53)	5.51 (5.47-5.54)	5.51 (5.47-5.54)	5.46 (5.42-5.49)
Age	5.48 (5.44-5.52)	5.51 (5.47-5.56)	5.42 (5.39-5.45)	5.54 (5.51-5.58)	5.50 (5.47-5.52)	5.42 (5.39-5.46)
Age*sex interaction	5.49 (5.45-5.53)	5.51 (5.47-5.56)	5.42 (5.39-5.44)	5.54 (5.51-5.58)	5.49 (5.47-5.52)	5.42 (5.39-5.46)
BMI	5.45 (5.40-5.49)	5.50 (5.46-5.55)	5.50 (5.46-5.53)	5.51 (5.48-5.54)	5.48 (5.45-5.51)	5.48 (5.45-5.52)
FPG and 2hPG	5.47 (5.44-5.49)	5.45 (5.42-5.47)	5.43 (5.40-5.45)	5.44 (5.43-5.46)	5.49 (5.47-5.52)	5.43 (5.40-5.46)
FPI	5.47 (5.43-5.51)	5.49 (5.45-5.53)	5.48 (5.45-5.52)	5.51 (5.47-5.54)	5.50 (5.47-5.53)	5.47 (5.43-5.51)
Hemoglobin	5.44 (5.40-5.49)	5.50 (5.45-5.54)	5.49 (5.46-5.53)	5.50 (5.47-5.54)	5.50 (5.47-5.54)	5.46 (5.42-5.49)
MCV	5.43 (5.39-5.47)	5.49 (5.45-5.54)	5.50 (5.46-5.53)	5.51 (5.48-5.54)	5.50 (5.47-5.53)	5.46 (5.42-5.49)
SBP and DBP	5.44 (5.40-5.48)	5.49 (5.44-5.53)	5.46 (5.42-5.49)	5.53 (5.50-5.57)	5.49 (5.46-5.52)	5.47 (5.44-5.50)
ALT, AST, GGT	5.47 (5.43-5.51)	5.49 (5.44-5.53)	5.49 (5.45-5.52)	5.50 (5.47-5.54)	5.51 (5.47-5.54)	5.46 (5.43-5.50)
All covariates	5.46 (5.43-5.49)	5.45 (5.42-5.47)	5.40 (5.38-5.42)	5.46 (5.45-5.48)	5.47 (5.45-5.50)	5.42 (5.40-5.45)

Data presented as means in NGSP units, and 95% confidence intervals in parentheses. HCHS/SOL and NHANES datasets were analyzed separately.

Abbreviation for variables: BMI = body mass index, FPG = fasting plasma glucose, 2hPG = plasma glucose in 2-h OGTT, FPI = fasting plasma insulin, MCV = mean corpuscular volume, SBP = systolic blood pressure, DBP = diastolic blood pressure, ALT = alanine aminotransferase, AST = aspartate aminotransferase, and GGT = gamma glutamyl transferase