

SUPPLEMENTARY DATA

Supplement to: Interaction between type 2 diabetes prevention strategies and genetic determinants of coronary artery disease on cardiometabolic risk factors.

Jordi Merino, Kathleen A Jablonski, Josep M. Mercader, Steven E Kahn, Ling Chen, Maegan Harden, Linda M Delahanty, Maria Rosario G. Araneta, Geoffrey A Walford, Suzanne B.R. Jacobs, Uzoma N. Ibebuogu, Paul W. Franks, William C. Knowler, Jose C. Florez; for the Diabetes Prevention Program Research Group.

Corresponding author's contact information:

Jose C. Florez, MD, PhD
Diabetes Prevention Program Coordinating Center
The Biostatistics Center George Washington University
6110 Executive Blvd, Suite 750
Rockville, MD 20852, USA
Phone: 617 643 3308
Email: dppmail@bsc.gwu.edu and jcflorez@partners.org

SUPPLEMENTARY DATA

Supplementary Table 1. Characteristics of genetic variants used to build the coronary artery disease polygenic risk score.

SUPPLEMENTARY DATA

Supplementary Table 2. Differences in baseline characteristics between the sample of participants included in this study and all Diabetes Prevention Program participants.

	DPP Study Sample (n=2,658)	All DPP (n=3,234)	P value*
Demographics			
Age, y	50.7 ± 10.7	50.6 ± 10.7	0.444
Sex, Female n (%)	1,789 (67.3)	2,191 (67.7)	0.242
Race/Ethnicity, n (%)			
White	1,476 (55.5)	1,768 (54.7)	<0.001
African American	537 (20.2)	645 (19.9)	
Hispanic	451 (17.0)	508 (15.7)	
Other	194 (7.3)	313 (9.6)	
Current Smoker, n (%)	192 (7.2)	226 (7.0)	0.306
Hyperlipidemia n (%)	136 (5.1)	169 (5.2)	0.824
On lipid lowering med, n (%)	126 (4.7)	157 (4.9)	0.567
Hypertension, n (%)	427 (16.1)	520 (16.1)	0.962
Systolic blood pressure, mm Hg	124 ± 15	124 ± 15	0.893
Diastolic blood pressure, mm Hg	78.3 ± 9.3	78 ± 9	0.625
Anthropometrics & Lifestyle			
BMI, kg/m ²	34.1 ± 6.6	34.0 ± 6.7	0.039
Waist circumference, cm	105 ± 15	105 ± 15	0.047
AHEI-2010, units	46.4 ± 10.1	44.2 ± 10.4 [^]	0.001
MET-hours/week [#]	9.5 (3.8, 20.2)	9.8 (3.9, 20.6)	0.286
Biochemical			
Fasting glucose, mmol/L	5.93 ± 0.45	5.91 ± 0.46	<0.001
HOMA-IR, units [#]	6.18 (4.25, 8.95)	6.16 (4.22, 8.85)	0.252
Total cholesterol, mmol/L	5.27± 0.94	5.26 ± 0.94	0.437
LDL-cholesterol, mmol/L	3.23 ± 0.85	3.23 ± 0.85	0.734
HDL-cholesterol, [#]	1.18 (0.96, 1.35)	1.10 (0.98, 1.30)	0.380

SUPPLEMENTARY DATA

Triglycerides, mmol/L [#]	1.61 (1.19, 2.31)	1.59 (1.12, 2.27)	0.236
CRP, mg/dl [#]	0.38 (0.17, 0.77)	0.37 (0.17, 0.76)	0.010
tPA, ng/ml [#]	11.0 (8.8, 13.4)	10.9 (8.7, 13.4)	0.078
Fibrinogen, umol/L	11.3 ± 2.5	11.5 ± 2.6	0.305

Values are given as the mean ± SD or median (25th, 75th percentile)[#] except for qualitative variables expressed as n (%). BMI; Body mass index, HOMA-IR; homeostasis model assessment of insulin resistance, CRP; C-reactive protein, tPA, tissue plasminogen activator.

**P* values are generated from a general estimating equation models. ^ n=3,175

SUPPLEMENTARY DATA

Supplementary Table 3. One-year change in lifestyle components.

	PBO (n=865)	MET (n=852)	ILS (n=869)	P Met vs PBO	P ILS vs PBO
Diet					
1-y change AHEI-2010, units	1.49 ± 0.27	0.84 ± 0.27	4.22 ± 0.27	0.661	<0.001
Physical activity					
1-y change MET-hours/week	1.28 ± 1.05	1.46 ± 1.06	6.96 ± 1.05	0.588	<0.001
Body weight loss, kg	-0.53 ± 0.19	-2.55 ± 0.19	-6.9 ± 0.19	<0.001	<0.001

Table Legend; Values represents adjusted means ± SE. The change in physical activity is not normally distributed and has been ln transformed.

P-value extracted from general linear model adjusted for baseline lifestyle component, age at randomization, sex and ancestry markers.

Eating Index 2010 (AHEI-2010). MET-hours/week (Metabolic equivalents*hours/week).

SUPPLEMENTARY DATA

Supplementary Table 4. Association between one-year change in body weight and one-year change in risk factors by study intervention.

Cardiometabolic risk factor	PBO (n=888)		MET (n=880)		ILS (n=890)	
	β (95% CI)	<i>P</i> value*	β (95% CI)	<i>P</i> value*	β (95% CI)	<i>P</i> value*
BMI, kg/m ²	-0.11 (-0.012, -0.010)	<0.001	-0.011 (-0.012, -0.010)	<0.001	-0.011 (-0.012, -0.010)	<0.001
Waist circumference, cm	-0.681 (-0.743, -0.619)	<0.001	-0.626 (-0.703, -0.549)	<0.001	-0.756 (-0.806, -0.706)	<0.001
Fasting glucose [#]	0.994 (0.993, 0.996)	<0.001	0.995 (0.994, 0.996)	<0.001	0.995 (0.994, 0.996)	<0.001
LDLc, mmol/L	-0.006 (-0.014, 0.002)	0.143	-0.011 (-0.019, -0.003)	0.008	-0.016 (-0.021, -0.010)	<0.001
HDLc, mmol/L	0.003 (0.005, 0.007)	0.002	0.008 (0.006, 0.010)	<0.001	0.004 (0.002, 0.006)	<0.001
Triglycerides [#]	0.981 (0.975, 0.990)	<0.001	0.978 (0.974, 0.984)	<0.001	0.981 (0.976, 0.989)	<0.001
Systolic BP, mmHg	-0.456 (-0.612, -0.285)	<0.001	-0.368 (-0.536, -0.199)	<0.001	-0.374 (-0.494, -0.254)	<0.001
Diastolic BP, mmHg	-0.220 (-0.329, -0.111)	<0.001	-0.197 (-0.309, -0.085)	<0.001	-0.245 (-0.321, -0.169)	<0.001
CRP [#]	0.966 (0.957, 0.975)	<0.001	0.974 (0.964, 0.983)	<0.001	0.964 (0.957, 0.971)	<0.001
tPA, ng/mL	-0.130 (-0.167, -0.093)	<0.001	-0.175 (-0.214, -0.136)	<0.001	-0.163 (-0.188, -0.137)	<0.001
Fibrinogen, umol/L	0.010 (-0.017, 0.037)	0.412	-0.004 (-0.020, 0.029)	0.784	-0.013 (-0.048, 0.005)	0.151

Table Legend; Each cardiometabolic risk factor represents a separate linear regression model on the association between in cardiometabolic risk factor levels and body weight loss (1kg). Regression coefficients for natural log transformed CRFs[#] are expressed as exp(β) ratio of one-year change in coronary artery disease risk factors according to intervention group.

BMI; Body mass index, CRP; C-reactive protein, tPA, tissue plasminogen activator.

**P*-value derived by general linear model adjusted for baseline risk factor, age at randomization, sex, and PCs ancestry markers.

SUPPLEMENTARY DATA

Supplementary Table 5. Association between one-year change in physical activity and one-year change in risk factors by study intervention.

Cardiometabolic risk factor	PBO (n=888)		MET (n=880)		ILS (n=890)	
	β (95% CI)	<i>P</i> value*	β (95% CI)	<i>P</i> value*	β (95% CI)	<i>P</i> value*
BMI, kg/m ²	-0.024 (-0.051, 0.016)	0.108	-0.015 (-0.022, 0.015)	0.458	-0.030 (-0.053, -0.011)	0.008
Waist circumference, cm	-0.084 (-0.195, 0.027)	0.136	-0.032 (-0.160, 0.097)	0.629	-0.227 (-0.439, -0.016)	0.035
Fasting glucose [#]	0.097 (0.991, 1.003)	0.416	0.999 (0.997, 1.001)	0.837	-0.998 (0.995, 1.001)	0.087
LDLc, mmol/L	0.003 (-0.008, 0.015)	0.554	-0.011 (-0.023, 0.001)	0.081	-0.005 (-0.021, 0.011)	0.563
HDLc, mmol/L	0.001 (-0.003, 0.003)	0.907	-0.002 (-0.006, 0.001)	0.249	0.001 (-0.004, 0.006)	0.693
Triglycerides [#]	0.996 (-0.980, 1.003)	0.235	0.997 (0.990, 1.005)	0.439	1.002 (0.991, 1.012)	0.759
Systolic BP, mmHg	-0.158 (-0.398, 0.081)	0.196	-0.150 (-0.399, 0.099)	0.238	-0.448 (-0.810, -0.087)	0.015
Diastolic BP, mmHg	-0.021 (-0.178, 0.137)	0.798	-0.101 (-0.265, 0.063)	0.226	-0.314 (-0.545, -0.084)	0.008
CRP [#]	1.009 (0.995, 1.023)	0.187	1.004 (0.989, 1.013)	0.613	0.990 (0.967, 1.012)	0.368
tPA, ng/mL	0.006 (-0.054, 0.067)	0.837	-0.027 (-0.091, 0.038)	0.420	-0.037 (-0.119, 0.046)	0.388
Fibrinogen, umol/L	0.035 (-0.004, 0.073)	0.076	0.001 (-0.024, 0.051)	0.482	0.001 (-0.005, 0.005)	0.959

Table Legend; Each cardiometabolic risk factor represents a separate linear regression model on the association between in cardiometabolic risk factor levels and increment of 10 MET-hours/week. Regression coefficients for natural log transformed CRFs[#] are expressed as exp(β) ratio of one-year change in coronary artery disease risk factors according to intervention group.

BMI; Body mass index, CRP; C-reactive protein, tPA, tissue plasminogen activator.

**P*-value derived by general linear model adjusted for baseline risk factor, age at randomization, sex, and PCs ancestry markers.

SUPPLEMENTARY DATA

Supplementary Table 6. Association between one-year change in dietary score and one-year change in risk factors by study intervention.

Cardiometabolic risk factor	PBO (n=888)		MET (n=880)		ILS (n=890)	
	β (95% CI)	<i>P</i> value*	β (95% CI)	<i>P</i> value*	β (95% CI)	<i>P</i> value*
BMI, kg/m ²	-0.060 (-0.108, -0.013)	0.011	-0.071 (-0.150, -0.006)	0.005	-0.094 (-0.158, -0.026)	<0.001
Waist circumference, cm	-0.314 (-0.774, 0.146)	0.181	-0.703 (-1.241, -0.192)	0.007	-1.294 (-1.852, -0.192)	<0.001
Fasting glucose [#]	0.994 (0.983, 1.005)	0.231	0.997 (0.982, 1.010)	0.712	0.995 (0.988, 1.004)	0.253
LDLc, mmol/L	-0.011 (-0.058, -0.035)	0.648	0.030 (-0.016, 0.076)	0.206	-0.041 (-0.084, 0.001)	0.056
HDLc, mmol/L	0.003 (-0.001, 0.015)	0.662	0.013 (-0.001, 0.027)	0.056	0.022 (0.008, 0.036)	0.002
Triglycerides [#]	0.990 (0.961, 1.002)	0.539	0.966 (0.938, 0.996)	0.018	0.951 (0.928, 0.989)	0.008
Systolic BP, mmHg	-0.222 (-1.127, 0.762)	0.658	-0.811 (-1.794, -0.173)	0.106	-0.798 (-1.765, -0.170)	0.106
Diastolic BP, mmHg	-0.018 (-0.665, 0.629)	0.957	-0.783 (-1.429, -0.136)	0.018	-0.256 (-0.877, -0.365)	0.419
CRP [#]	0.933 (0.886, 0.990)	0.019	0.996 (0.943, 1.064)	0.914	0.938 (0.863, 0.980)	0.011
tPA, ng/mL	-0.126 (-0.375, 0.123)	0.320	-0.103 (-0.338, 0.132)	0.388	-0.165 (-0.388, 0.057)	0.145
Fibrinogen, umol/L	-0.017 (-0.174, 0.139)	0.829	-0.172 (-0.320, -0.024)	0.023	-0.133 (-0.276, 0.010)	0.067

Table Legend; Each cardiometabolic risk factor represents a separate linear regression model on the association between in cardiometabolic risk factor levels and increment of 10 units in the dietary score. Regression coefficients for natural log transformed CRFs[#] are expressed as exp(β) ratio of one-year change in coronary artery disease risk factors according to intervention group.

BMI; Body mass index, CRP; C-reactive protein, tPA, tissue plasminogen activator.

**P*-value derived by general linear model adjusted for baseline risk factor, age at randomization, sex, and PCs ancestry markers.

SUPPLEMENTARY DATA

Supplementary Table 7. Modification of coronary artery disease genetic risk effect on one-year change in intermediate risk factors by lifestyle components.

One-year change in risk factor	One-year change in LS component	Treatment arm	Low genetic risk	Intermediate genetic risk	High genetic risk	<i>P</i> _{interaction}
			β (SE)	β (SE)	β (SE)	
BMI, kg/m ²	Diet	MET	-0.191 (0.095)	-0.288 (0.103)	-0.515 (0.114)	0.012
BMI, kg/m ²	PA	MET	-0.003 (0.018)	-0.261 (0.098)	-0.323 (0.123)	0.014
Triglycerides [#]	Diet	MET	0.996 (0.960, 1.031)	0.969 (0.925, 1.016)	0.934 (0.892, 0.977)	0.024
Fasting glucose [#]	PA	PBO	1.005 (0.991, 1.021)	0.993 (0.983, 1.002)	0.989 (0.977, 1.000)	0.012
HDLc, mmol/L	PA	PBO	0.022 (0.009)	-0.011 (0.009)	-0.012 (0.008)	0.033

Table Legend: Predicted one-year changes on cardiometabolic risk factors by 1SD increase in lifestyle behaviors among individuals at low, intermediate, and high genetic risk. *P*_{interaction} values were derived by general linear models with interaction terms for CAD PRS and lifestyle behaviors (dietary quality score or physical activity), after adjustment for age at randomization, sex, the top 10 principal components for ancestry, and the respective baseline cardiac risk factors. For non-normally distributed variables[#], we calculated the natural log year 1 value minus natural log baseline value. incidence. Displayed only nominal significant interactions.

BMI, body mass index; MET, metformin; PBO, placebo.

SUPPLEMENTARY DATA

Supplementary Figure 1. Coronary artery disease polygenic risk score distribution.

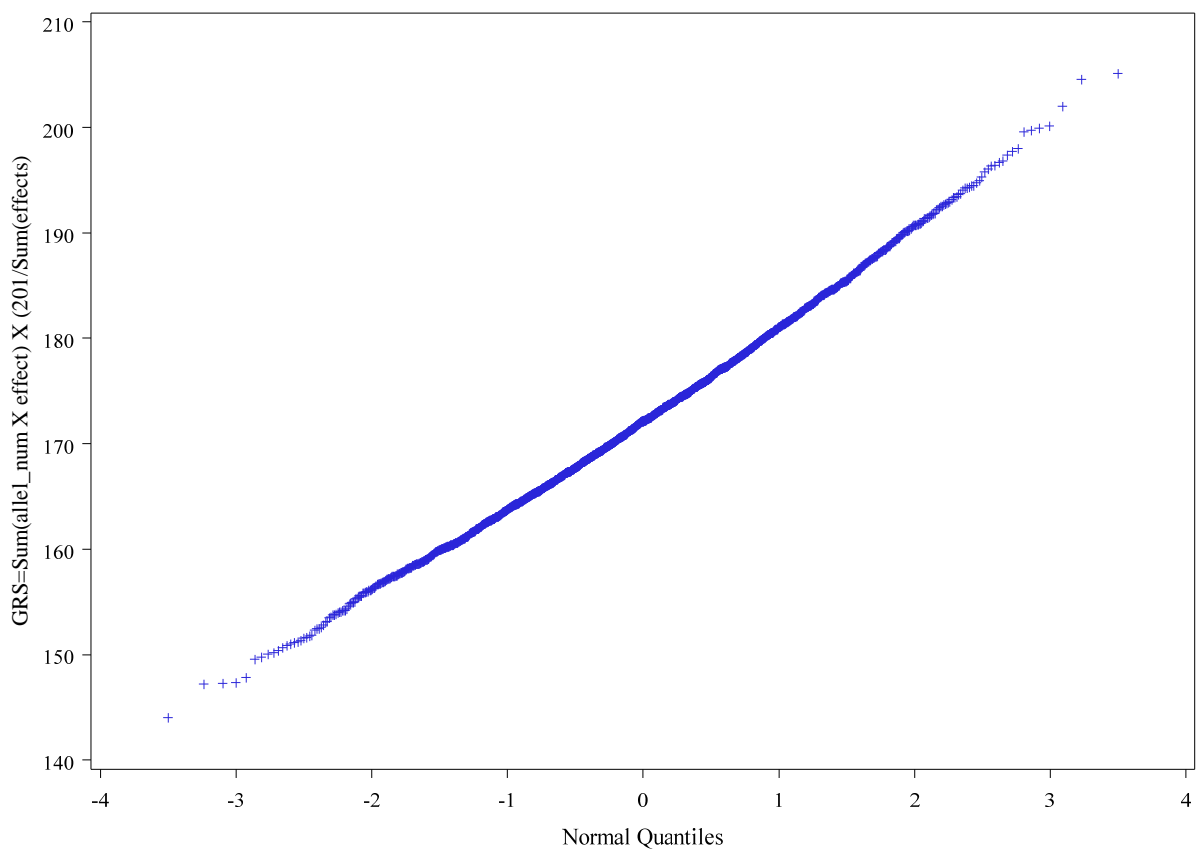


Figure legend; Q-Q plot for the distribution of the CAD polygenic risk score. The y axis displays CAD polygenic risks core values. The x axes represent quartiles of the distribution in the CAD polygenic risk score.

SUPPLEMENTARY DATA

Supplementary Figure 2. Adjusted-mean values of baseline lipid and diastolic blood pressure levels according quartiles of the genetic risk score.

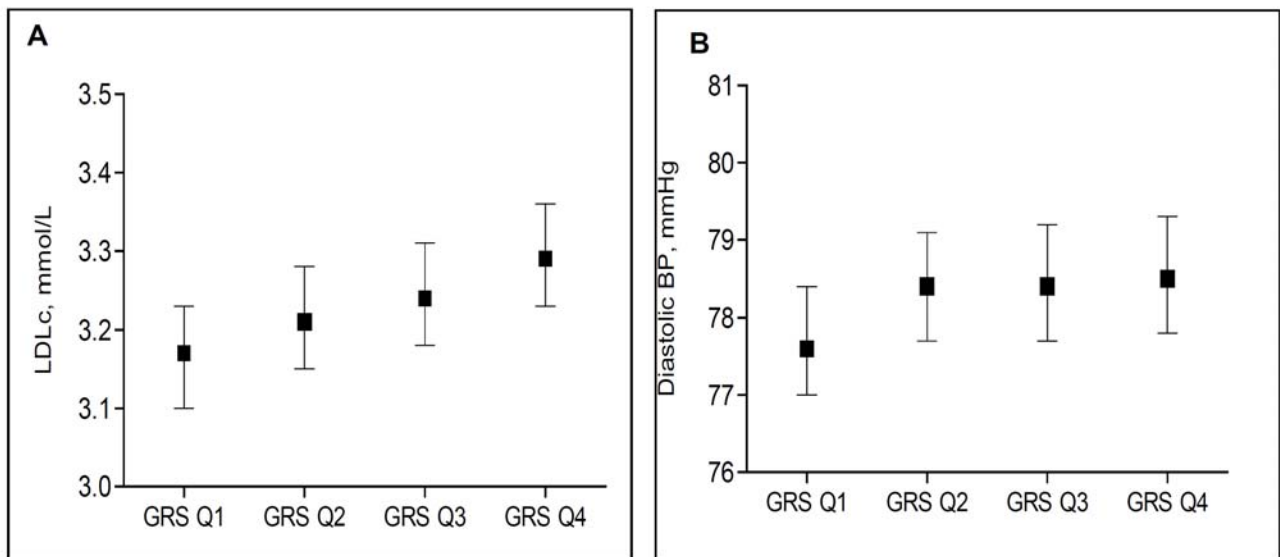


Figure legend; Baseline mean concentrations of intermediate risk factors according to the number of risk alleles at identified CAD loci, weighted by effect size in an aggregate genotype score. The right y axis displays adjusted mean and 95% confidence interval values of LDLc (A) and DBP (B) according to PRS quartiles. P-value was obtained from general linear models after adjustment for age at randomization, sex, and ancestry markers. $P < 0.001$ for LDLc and 0.027 for DBP.

SUPPLEMENTARY DATA

DPP Research Group members

Pennington Biomedical Research Center (Baton Rouge, LA)

George A. Bray, MD*
Iris W. Culbert, BSN, RN, CCRC**
Catherine M. Champagne, PhD, RD
Barbara Eberhardt, RD, LDN
Frank Greenway, MD
Fonda G. Guillory, LPN
April A. Herbert, RD
Michael L. Jeffers, LPN
Betty M. Kennedy, MPA
Jennifer C. Lovejoy, PhD
Laura H. Morris, BS
Lee E. Melancon, BA, BS
Donna Ryan, MD
Deborah A. Sanford, LPN
Kenneth G. Smith, BS, MT
Lisa L. Smith, BS
Julia A. St. Amant, RTR
Richard T. Tulley, PhD
Paula C. Vicknair, MS, RD
Donald Williamson, PhD
Jeffery J. Zachwieja, PhD

University of Chicago (Chicago, IL)

Kenneth S. Polonsky, MD*
Janet Tobian, MD, PhD*
David Ehrmann, MD*
Margaret J. Matulik, RN, BSN**
Bart Clark, MD
Kirsten Czech, MS
Catherine DeSandre, BA
Ruthanne Hilbrich, RD
Wylie McNabb, EdD
Ann R. Semenske, MS, RD

Jefferson Medical College (Philadelphia, PA)

Jose F. Caro, MD*
Pamela G. Watson, RN, ScD*
Barry J. Goldstein, MD, PhD*
Kellie A. Smith, RN, MSN**
Jewel Mendoza, RN, BSN**
Renee Liberoni, MPH
Constance Pepe, MS, RD
John Spandorfer, MD

University of Miami (Miami, FL)

Richard P. Donahue, PhD*
Ronald B. Goldberg, MD*
Ronald Prineas, MD, PhD*
Patricia Rowe, MPA**
Jeanette Calles, MSED
Paul Cassanova-Romero, MD

Hermes J. Florez, MD
Anna Giannella, RD, MS
Lascelles Kirby, MS
Carmen Larreal
Valerie McLymont, RN
Jadell Mendez
Juliet Ojito, RN
Arlette Perry, PhD
Patrice Saab, PhD

The University of Texas Health Science Center (San Antonio, TX)

Steven M. Haffner, MD, MPH*
Maria G. Montez, RN, MSHP, CDE**
Carlos Lorenzo, MD, PhD
Arlene Martinez, RN, BSN, CDE

University of Colorado (Denver, CO)

Richard F. Hamman, MD, DrPH*
Patricia V. Nash, MS**
Lisa Testaverde, MS**
Denise R. Anderson, RN, BSN
Larry B. Ballonoff, MD
Alexis Bouffard, MA,
B. Ned Calonge, MD, MPH
Lynne Delve
Martha Farago, RN
James O. Hill, PhD
Shelley R. Hoyer, BS
Bonnie T. Jortberg, MS, RD, CDE
Dione Lenz, RN, BSN
Marsha Miller, MS, RD
David W. Price, MD
Judith G. Regensteiner, PhD
Helen Seagle, MS, RD
Carissa M. Smith, BS
Sheila C. Steinke, MS
Brent VanDorsten, PhD

Joslin Diabetes Center (Boston, MA)

Edward S. Horton, MD*
Kathleen E. Lawton, RN**
Ronald A. Arky, MD
Marybeth Bryant
Jacqueline P. Burke, BSN
Enrique Caballero, MD
Karen M. Callaphan, BA
Om P. Ganda, MD
Therese Franklin
Sharon D. Jackson, MS, RD, CDE
Alan M. Jacobsen, MD
Lyn M. Kula, RD
Margaret Kocal, RN, CDE
Maureen A. Malloy, BS
Maryanne Nicosia, MS, RD

SUPPLEMENTARY DATA

Cathryn F. Oldmixon, RN
Jocelyn Pan, BS, MPH
Marizel Quitingon
Stacy Rubtchinsky, BS
Ellen W. Seely, MD
Dana Schweizer, BSN
Donald Simonson, MD
Fannie Smith, MD
Caren G. Solomon, MD, MPH
James Warram, MD

VA Puget Sound Health Care System and University of Washington (Seattle, WA)

Steven E. Kahn, MB, ChB*
Brenda K. Montgomery, RN, BSN, CDE**
Wilfred Fujimoto, MD
Robert H. Knopp, MD
Edward W. Lipkin, MD
Michelle Marr, BA
Dace Trence, MD

University of Tennessee (Memphis, TN)

Abbas E. Kitabchi, PhD, MD, FACP*
Mary E. Murphy, RN, MS, CDE, MBA**
William B. Applegate, MD, MPH
Michael Bryer-Ash, MD
Sandra L. Frieson, RN
Raed Imseis, MD
Helen Lambeth, RN, BSN
Lynne C. Lichtermann, RN, BSN
Hooman Oktaei, MD
Lily M.K. Rutledge, RN, BSN
Amy R. Sherman, RD, LD
Clara M. Smith, RD, MHP, LDN
Judith E. Soberman, MD
Beverly Williams-Cleaves, MD

Northwestern University's Feinberg School of Medicine (Chicago, IL)

Boyd E. Metzger, MD*
Mariana K. Johnson, MS, RN**
Catherine Behrends
Michelle Cook, MS
Marian Fitzgibbon, PhD
Mimi M. Giles, MS, RD
Deloris Heard, MA
Cheryl K.H. Johnson, MS, RN
Diane Larsen, BS
Anne Lowe, BS
Megan Lyman, BS
David McPherson, MD
Mark E. Molitch, MD
Thomas Pitts, MD
Renee Reinhart, RN, MS
Susan Roston, RN, RD

Pamela A. Schinleber, RN, MS

Massachusetts General Hospital (Boston, MA)

David M. Nathan, MD*
Charles McKittrick, BSN**
Heather Turgeon, BSN**
Kathy Abbott
Ellen Anderson, MS, RD
Laurie Bissett, MS, RD
Enrico Cagliero, MD
Jose C. Florez, MD, PhD+
Linda Delahanty, MS, RD
Valerie Goldman, MS, RD
Alexandra Poulos

University of California-San Diego (La Jolla, CA)

Jerrold M. Olefsky, MD*
Elizabeth Barrett-Connor, MD*
Mary Lou Carrion-Petersen, RN, BSN**
Steven V. Edelman, MD
Robert R. Henry, MD
Javiva Horne, RD
Simona Szerdi Janesch, BA
Diana Leos, RN, BSN
Sundar Mudaliar, MD
William Polonsky, PhD
Jean Smith, RN
Karen Vejvoda, RN, BSN, CDE, CCRC

St. Luke's-Roosevelt Hospital (New York, NY)

F. Xavier Pi-Sunyer, MD*
Jane E. Lee, MS**
David B. Allison, PhD
Nancy J. Aronoff, MS, RD
Jill P. Crandall, MD
Sandra T. Foo, MD
Carmen Pal, MD
Kathy Parkes, RN
Mary Beth Pena, RN
Ellen S. Rooney, BA
Gretchen E.H. Van Wye, MA
Kristine A. Viscovich, ANP

Indiana University (Indianapolis, IN)

David G. Marrero, PhD*
Melvin J. Prince, MD*
Susie M. Kelly, RN, CDE**
Yolanda F. Dotson, BS
Edwin S. Fineberg, MD
John C. Guare, PhD
Angela M. Hadden
James M. Ignaut, MA
Marcia L. Jackson
Marian S. Kirkman, MD
Kieren J. Mather, MD
Beverly D. Porter, MSN

SUPPLEMENTARY DATA

Paris J. Roach, MD
Nancy D. Rowland, BS, MS
Madelyn L. Wheeler, RD

Medstar Research Institute (Washington, DC)

Robert E. Ratner, MD*
Gretchen Youssef, RD, CDE**
Sue Shapiro, RN, BSN, CCRC**
Catherine Bavido-Arrage, MS, RD, LD
Geraldine Boggs, MSN, RN
Marjorie Bronsord, MS, RD, CDE
Ernestine Brown
Wayman W. Cheatham, MD
Susan Cola
Cindy Evans
Peggy Gibbs
Tracy Kellum, MS, RD, CDE
Claresa Levatan, MD
Asha K. Nair, BS
Maureen Passaro, MD
Gabriel Uwaifo, MD

University of Southern California/UCLA Research Center (Alhambra, CA)

Mohammed F. Saad, MD*
Maria Budget**
Sujata Jinagouda, MD**
Khan Akbar, MD
Claudia Conzues
Perpetua Magpuri
Kathy Ngo
Amer Rassam, MD
Debra Waters
Kathy Xaphthalamous

Washington University (St. Louis, MO)

Julio V. Santiago, MD* (deceased)
Samuel Dagogo-Jack, MD, MSc, FRCP, FACP*
Neil H. White, MD, CDE*
Samia Das, MS, MBA, RD, LD**
Ana Santiago, RD**
Angela Brown, MD
Edwin Fisher, PhD
Emma Hurt, RN
Tracy Jones, RN
Michelle Kerr, RD
Lucy Ryder, RN
Cormarie Wernimont, MS, RD

Johns Hopkins School of Medicine (Baltimore, MD)

Christopher D. Saudek, MD*
Vanessa Bradley, BA**
Emily Sullivan, MEd, RN**
Tracy Whittington, BS**
Caroline Abbas

Frederick L. Brancati, MD, MHS
Jeanne M. Clark, MD
Jeanne B. Charleston, RN, MSN
Janice Freel
Katherine Horak, RD
Dawn Jiggetts
Deloris Johnson
Hope Joseph
Kimberly Loman
Henry Mosley
Richard R. Rubin, PhD
Alafia Samuels, MD
Kerry J. Stewart, EdD
Paula Williamson

University of New Mexico (Albuquerque, NM)

David S. Schade, MD*
Karwyn S. Adams, RN, MSN**
Carolyn Johannes, RN, CDE**
Leslie F. Adler, PhD
Patrick J. Boyle, MD
Mark R. Burge, MD
Janene L. Canady, RN, CDE
Lisa Chai, RN
Ysela Gonzales, RN, MSN
Doris A. Hernandez-McGinnis
Patricia Katz, LPN
Carolyn King
Amer Rassam, MD
Sofya Rubinchik, MD
Willette Senter, RD
Debra Waters, PhD

Albert Einstein College of Medicine (Bronx, NY)

Harry Shamoon, MD*
Janet O. Brown, RN, MPH, MSN**
Elsie Adorno, BS
Liane Cox, MS, RD
Jill Crandall, MD
Helena Duffy, MS, C-ANP
Samuel Engel, MD
Allison Friedler, BS
Crystal J. Howard-Century, MA
Stacey Kloiber, RN
Nadege Longchamp, LPN
Helen Martinez, RN, MSN, FNP-C
Dorothy Pompei, BA
Jonathan Scheindlin, MD
Elissa Violino, RD, MS
Elizabeth Walker, RN, DNSc, CDE
Judith Wylie-Rosett, EdD, RD
Elise Zimmerman, RD, MS
Joel Zonszein, MD

University of Pittsburgh (Pittsburgh, PA)

Trevor Orchard, MD*

SUPPLEMENTARY DATA

Marinella Temprosa, PhD
Fredricka Walker-Murray

Central Biochemistry Laboratory (Seattle, WA)

Santica Marcovina, PhD, ScD*
Greg Strylewicz, PhD**
F. Alan Aldrich

Carotid Ultrasound

Dan O'Leary, MD*

CT Scan Reading Center

Elizabeth Stamm, MD*

Epidemiological Cardiology Research Center-Epicare (Winston-Salem, NC)

Pentti Rautaharju, MD, PhD*
Ronald J. Prineas, MD, PhD*/*
Teresa Alexander
Charles Campbell, MS
Sharon Hall
Yabing Li, MD
Margaret Mills
Nancy Pemberton, MS
Farida Rautaharju, PhD
Zhuming Zhang, MD

Nutrition Coding Center (Columbia, SC)

Elizabeth Mayer-Davis, PhD*
Robert R. Moran, PhD**

Quality of Well-Being Center (La Jolla, CA)

Ted Ganiats, MD*
Kristin David, MHP*
Andrew J. Sarkin, PhD*
Erik Groessl, PhD

NIH/NIDDK (Bethesda, MD)

R. Eastman, MD
Judith Fradkin, MD
Sanford Garfield, PhD

Centers for Disease Control & Prevention (Atlanta, GA)

Edward Gregg, PhD
Ping Zhang, PhD

University of Michigan (Ann Arbor, MI)

William H. Herman, MD, MPH

+Genetics Working Group

Jose C. Florez, MD, PhD^{1,2}
David Altshuler, MD, PhD^{1,2}
Liana K. Billings, MD¹
Ling Chen, MS¹
Maegan Harden, BS²

Robert L. Hanson, MD, MPH³
William C. Knowler, MD, DrPH³
Toni I. Pollin, PhD⁴
Alan R. Shuldiner, MD⁴
Kathleen Jablonski, PhD⁵
Paul W. Franks, PhD, MPhil, MS^{6,7,8}
Marie-France Hivert, MD⁹

1=Massachusetts General Hospital

2=Broad Institute

3=NIDDK

4=University of Maryland

5=Coordinating Center

6=Lund University, Sweden

7=Umeå University, Sweden

8=Harvard School of Public Health

9=Université de Sherbrooke