

## SUPPLEMENTARY DATA

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Miller; Corpus Cristi, TX: M. Upmanyu; Culver City, CA: N. Goldberg; Danbury, CT: R. Savino; Danville, IN: S. M. Wentworth; Danville, PA: D. R. Langdon; Davenport, IA: C. Weideman; Dayton, OH: M. Urban ; Detroit, MI: D. Transue, F. Whitehouse, J. Cara; Downey, CA: S. Shaw; Drayton, SC: W. Price; Dubuque, IA: R. Iverson; Duluth, MN: M. Slag; Durango, CO: J. Hutt; Eau Claire, WI: N. McLean, WI: R. Moore; El Paso, TX: R. Christenson; Elgin, IL: K. Valika; Englewood, CO: N. Nayak, C. A. Bloch; Englewood, NJ: L. Strom; Escondido, CA: T. S. Bailey, C. P. Varma; Eugene, OR: D. Calder, M. Bilger; Everett, WA: K. Larson, M. Papenhausen; Fairfield, CA: Y. Shlesinger; Fargo, ND: A. Kenien; Fayetteville, NC: E. Wright; Flint, MI: M. A. Jabbar; Flushing, NY: D. L. Lorber; Fort Dodge, IA: J. Berkett; Fort Smith, AR: R. P. Robinson; Fort Wayne, IN: A. Kadambi; Framingham, MA: W. Sullivan; Fremont, CA: E. Meyer; Fresno, CA: J. L. Bautista, P. C. Norwood; Ft. Lauderdale, FL: E. Biederman, S. Nassberg, L. Goscin, M. Mata, N. Thompson, R. M. Harrell, J. Cabral; Ft. Myers, FL: A. Pietri; Ft. Worth, TX: C. R. Scott, T. K. Flannery, D. B. Wilson; Gainesville, FL: B. Rogers; Glendale, CA: M. Campos, M. N. Montero; Gorham, NH: B. Beals; Grand Junction, CO: D. Mair, A. Long; Grand Rapids, MI: R. S. Rood; Green Bay, WI: J. Taylor; Greensboro, NC: R. Sevier; Greenville, NC: G. Harris, M. A. Pfeifer; Hackensack, NJ: M. Blechman, J. Giangola; Hermitage, TN: R. Creech; Hershey, PA: M. Lathrop, A. Dunaif; Hollywood, FL: G. Miceli, L. Lewy-Alterbaum, P. S. Jellinger, S. B. Novak, K. M. Gellman, S. Lerman; Honolulu, HI: S. Waxman; Houston, TX: D. J. Hamilton; Huntington, WV: H. Driscoll; Huntsville, AL: R. Schneier; Hutchinson, KS: J. L. Casey; Indianapolis, IN: P. Boyce, J. Meachum; Irving, TX: J. Milburn; Issaquah, WA: D. Pomeroy; Jackson, MS: G. Moll; Jacksonville, FL: K. Macyko, L. A. Fox, N. Mauras; Jersey City, NJ: P. Ledereich; Juneau, AK: D. Novotney; Kalispell, MT: C. Gill, B. Rossetto; Kingston, ON, R. Houlden; Klamath Falls, OR: P. Heck; La Crosse, WI: J. Korducki; La Habra, CA: J. Winston, MD, D. Geffner; La Jolla, CA: S. Edelman, MD: B. Henry; La Mesa, CA: D. Einhorn, R. Fink, E. Gold; Lake Charles, LA: R. W. (RW) Calhoun, MD; Lake Jackson, TX: J. Leidlein; Lancaster, CA: K. Arul; Lansing, MI: D. Henry; Las Vegas, NV: D. L. Donaldson; Lebanon, OR: K. Middlestadt; Lewiston, ID: L. Grande-Luke; Lincoln, NE: J. Guest, R. Wermers, B. Bells; Little Rock, AR: P. Frindik; Livingston, NJ: G. Gewirtz; Lompoc, CA: C. Blyfeld; Long Beach, CA: M. Brakin; Los Angeles, CA: D. Borut, D. Geffner, J. Winston, M. Geffner, M. Rodriguez , V. Gura, M. Rodriguez; Los Gatos, CA: C. Shough; Louisville, KY: H. Bays, H. Shenouda; Lubbock, TX: S. Varma, M. J. Bourgeois; Lufkin, TX: L. A. Sloan; Lynchburg, VA: C.E. Guthrow, Jr.; Lynwood, CA: S. Shaw; Manhattan Beach, CA: R. Ruby; Margate, FL: B. Motzkin-Kava; Marshalltown, IA: D. Jebsen; Marshfield, WI: I. Zador, S. Maby; McLean, VA: F. Crantz; Medford, OR: D. Zietlow; Miami Beach, FL: D. Kudzma; Miami, FL: E. Levy, E.T. Shapiro, J. Jacobi, J. Pita, W. Abelove, J. Perez-Rodriguez, L. Gonzalez-Mendoza, S. Richton, P. Weissman; Middletown, NY: N. Stein; Midland, TX: L. Sherman-Adcock; Milwaukee, WI: D. Fergeson, M. Jacobson, J. Sennett, R. Jain; Minneapolis, MN: D. Etwiler, R. C. Ramsay; Minot, ND: M. Holland; Miramar, FL: S. Carrington; Missoula, MT: S. Seagraves; Modesto, CA: G. M. Yue, J. Downs-Colby; Montebello, CA: H. Flores; Montgomery, AL: S. Weinrib; Morgantwn, WV: E. Jones; Morristown, NJ: H. Starkman; Mount Vernon, WA: D. White; Mountain View, CA: L. Doberne, M. Greenfield; Muncie, IN: K. Alexander; Napa, CA: C. O'Sullivan; Naples, FL: R. Duncan; Naranja, FL: G. Barandiaran, J. Yunis, L. Nunez, V. Ramos; Nashua, NH: E. Holland; Natrona Heights, PA: W. R. Balash; Neptune, NJ: J. Sher; New Brunswick, NJ: R. Agrin; New Orleans, LA: J. Frentz; New York, NY: I. Fennoy; Newhall, CA: S. Baron; Nipomo, CA: J. Door; Norfolk, VA: A. Vinik; North Las Vegas, NV: F. Savery; Oakland, CA: F. Gareis, R. Mack, D. Devoe, Y. Fan; Oklahoma City, OK: D. Domek; Olympia, WA: D. Kelley; Onalaska, WI: T. Roberts; O'Neill, NE: B. Gutshall; Orange, CA: I. Madu, R. Poucher; Orlando, FL: M. Mengel, P. Desrosiers, R. A. Banks, B. Kopp; Pacific Grove, CA: I. Fishman; Pacific Palisades, CA: D. Geller, W. Smith; Palm Bay, FL: J. A. Duncan; Palm Beach Gardens, FL: O. Nyman, M. Vaccarello-Cruz; Parkersburg, WV: F. L. Schwartz; Pasadena, CA: O. Olambiwonnu; Paso Robles, CA: M. Ortiz; Pembroke Pines, FL: S. Freedman; Pendleton, OR: S. Merrill; Peoria, IL: J.

## SUPPLEMENTARY DATA

Wise; Philadelphia, PA: I. Rezvani, D. Doyle, P. Hale, C. Singer-Granick, W. Fore; Phoenix, AZ: A. Perelman, R. Clemmons, R. Johnsonbaugh; Pittsburgh, PA: A. R. Gonzalez; Pocatello, ID: M. Baker, C. Field, C. Shields, K. Walker; Port Huron, MI: S. Reddy, K. Pillote; Port St. Lucie, FL: M. Borchelt; Port Townsend, WA: D. Bommer; Portland, OR: N. Curosh, D. Karl, B. Phillipson; Poway, CA: W. L. Iverson; Princeton, NJ: A. Krosnick; Providence, RI, C. B. Kahn; Puyallup, WA: B. Blodgett, N. Iverson, C. Jacobson, M. Haynes, D. Moore, R. Alston, R. Eachempati; Raleigh, NC: D. Becker; Rapid City, SD: L. Weide; Red Wing, MN: M. Decker; Redding, CA: J. Greaves; Richburg, SC: M. J. Curry; Richmond, VA: J. Radcliffe; Ridgecrest, CA: V. Schauf; Riverside, CA: D. Childs; Riverside, IL: R. Crawford, G. Charnogursky; Robbinsdale, MN: M. Stesin; Rockford, IL: M. Schneider; Rockville, MD: H. W. Rodbard, M. A. Dempsey; Roseau, MN: R. Brummer; Roseburg, OR: L. Elston, D. Marseters; Rutland, VT: P. Lapp; Sacramento, CA: N. Glaser, J. S. Soeldner; Safford, AZ: V. Chaurasia; Salem, OR: R. Michaels; Salinas, CA: A. King, R. Olson; San Antonio, TX: D. Hale, M. Danney, S. S. Miller; San Carlos, CA: S. Madan; San Diego, CA: J. R. Dudl; San Francisco, CA: N. Bohannon, M. Berlund, T. Jackson; San Jose, CA: J. Kitzmiller; Santa Rosa, CA: D. Price; Savannah, GA: K. Ehsanipoor; Sayre, PA: M. R. Homan; Scarborough, ME: J. Olshan; Scottsbluff, NE: T. Sorensen; Scranton, PA: A. PerryD; Seattle, WA: G. T. Nepom, D. McCulloch, I. Hirsch, R. Kanter, N. Niles; Shattuck, OK: M. Vogiatzi; Sheboygan, WI: V. Kerpe; Shreveport, LA: R. McVie; Sioux City, IA: J. Aniszewski, T. Carroll, R. Bacon; South Bend, IN: M. Hudson, A. Simpson; South Miami, FL: M. Fili, D. Krieger; South Windsor, CT: D. Golob; Southfield, MI: J. Carney; Springfield, IL: R. Khardori; St. Cloud, MN: M. Peitso; St. Louis, MO: J. T. Lane; St. Paul, MN: H. Katz, R. Warhol; Staten Island, NY: J. Rothman; Stockton, CA: D. F. Jensen, J. Rooke; Stoughton, MA: H. Fogel, L. Hotes; Sumter, SC: U. Lilavivat; Tacoma, WA: T. Gauthier; Tallahassee, FL: L. Deeb, T. Sherradan; Tarzana, CA: N. Lavin; Tecumseh, NE: K. Shuey, MD; Toledo, OH: J. Horner; Torrance, CA: J. M. Tsao; Traverse City, MI: A. Scrogin; Trexlertown, PA: C. Greenlee; Tucson, AZ: J. Insel, M. Wheeler; Tuscaloosa, AL: T. Kamal; Tyler, TX: L. Wiertz; Union, NJ: H. Bucholtz, J. Dunn; Urbana, IL: K. Wilson; Valhalla, NY: M. Frey, R. Noto; Ventura, CA: R. Chochinov; Vincennes, IN: J. M. Bridges; Waco, TX: M. Amar; Walnut Creek, CA: R. Weinstein, T. E. Poore; Waltham, MA: S. Brink, K. Moltz; Washington, DC: D. Sobel, G. Francis, R. Sveck, J. Ramey; Waterford, MI: N. Haque; Watseka, IL: A. Villafria, R. E. Villafria, Wausau, WI: J. Madagame; Wenatchee, WA: L. Stone; West Carrollton, OH: R. Cech; West Yellowstone, MT: J. Schnellbach; White Plains, NY: S. Dreidbart, R. Noto, T. Lebinger, L. Shane; Whittier, CA: E. Reece, R. Harris, W. D. Welsh; Wilmington, NC: P. C. Whitesides, Jr.; Winter Park, FL: A. Scoma; Woodland Hills, CA: F. H. Ziel; Worcester, MA: C. Alter, P. Lock; Yakima, WA: G. Treece



SUPPLEMENTARY DATA

**Supplementary Table 1. Extent of univariate associations of T1D with 60-minute and 2-hr values in DPT-1 (T1D/Total=241/670)**

Glucose				C-peptide			
60-Minute		2-hr		60-Minute		2-hr	
$\chi^2$	P-Value	$\chi^2$	P-Value	$\chi^2$	P-Value	$\chi^2$	P-Value
133	<0.001	85	<0.001	29	<0.001	4	0.040

**Supplementary Table 2. Coefficients from proportional hazards model used for T1D Diagnostic Index60\* in DPT-1 (T1D/Total=241/670)**

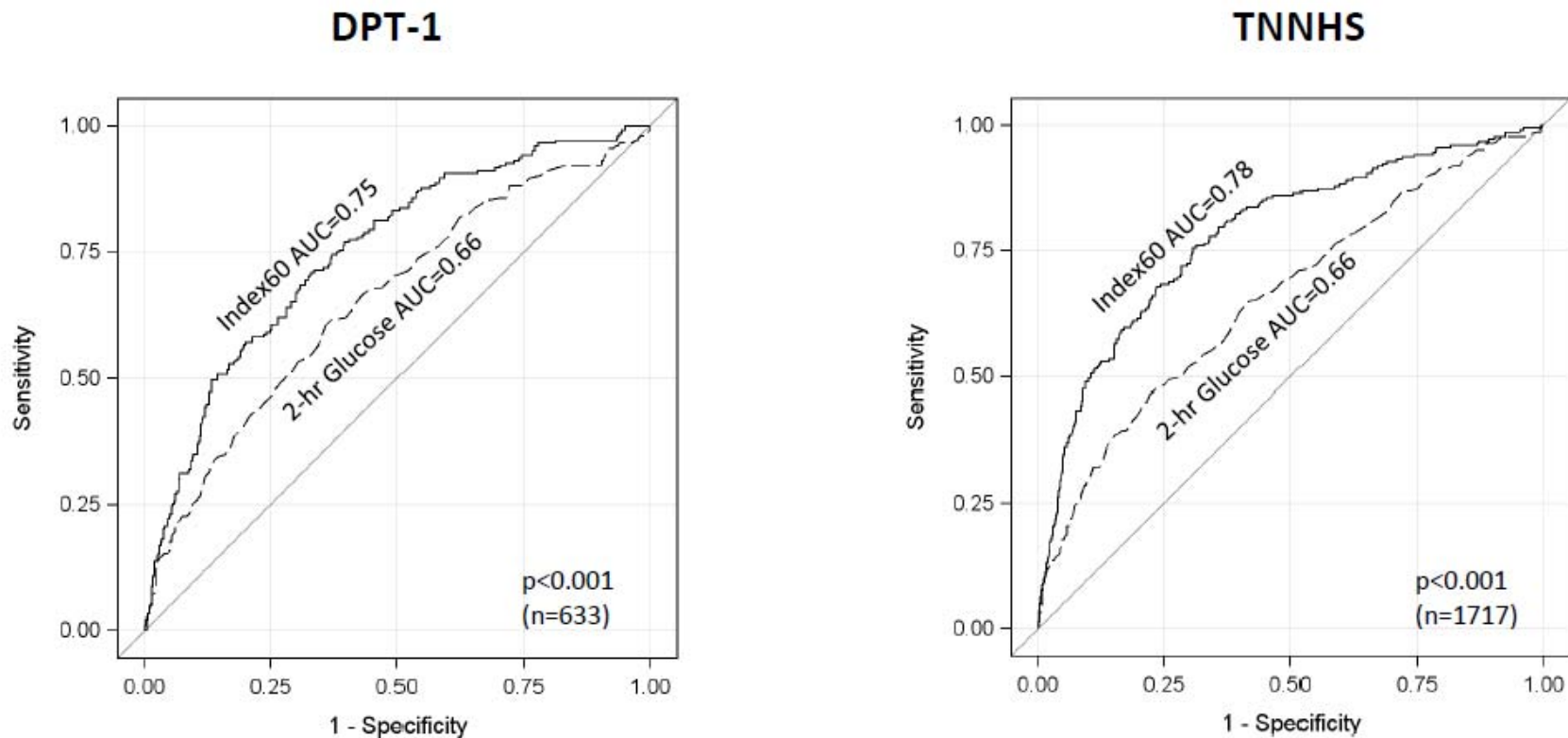
Variables	Coefficient±SE	P-value
Log Fasting C-peptide (ng/ml)	0.3695±0.1166	0.002
60-Minute Glucose (mg/dl)	0.0165±0.0012	<0.001
60-Minute C-peptide (ng/ml)	-0.3644±0.0507	<0.001

\*T1D Diagnostic Index60=0.3695\*(Log Fasting C-peptide) + 0.0165\*(60-Minute Glucose) - 0.3644\*(60-Minute C-peptide)

SUPPLEMENTARY DATA

**Supplementary Figure 1.**

The ROC curves for the diagnosis of T1D according to baseline Index60 and 2-hr glucose values are shown for DPT-1 and the TNNHS. Index60 was a much more accurate predictor of T1D than the 2-hr glucose in both studies. All of those included had Index60 values <2.00 and non-diabetic range glucose levels at baseline.



SUPPLEMENTARY DATA

**Supplementary Figure 2.**

Shown are mean C-peptide levels according to mean glucose values at time points of Ind60+/2hrglu- OGTTs and Ind60-/2hrglu+ OGTTs in DPT-1. Marked differences in the OGTT patterns are apparent. Glucose values and C-peptide levels continued to increase throughout the duration of the Ind60-/2hrglu+ OGTTs. In contrast, after 60 minutes, glucose values declined and C-peptide levels increased by a small amount during the Ind60+/2hrglu- OGTTs.

