Wave IV Glucose - HbA1c

Title

Wave IV Glucose - HbA1c

Abstract

This file contains two measures of glucose homeostasis based on the assay of the Wave IV dried blood spots.

Variables: 10

Observations: 15,701

Variables

Wave IV Glucose - HbA1c

- GLUCOSE - GLUCOSE (MG/DL)
- HBA1C - HEMOGLOBIN A1c (%)
- CONVERT - HbA1c INTER-CONVERSION FLAG
- FASTTIME - HOURS SINCE LAST ATE
- C_FGLU - CLASSIFICATION OF FASTING GLUCOSE
- C_NFGLU - CLASSIFCATION OF NON-FASTING GLUCOSE
- C_HBA1C - CLASSIFICATION OF HbA1c
- C_MED - ANTI-DIABETIC MEDICATION USE
- C_JOINT - DIABETES JOINT CLASSIFICATION

GLUCOSE - GLUCOSE (MG/DL)

Type	Numeric (Double)
GLUCOSE	Glucose (mg/dL)

HBA1C - HEMOGLOBIN A1c (%)

Type	Numeric (Double)
HBA1C	Hemoglobin A1c (%)

CONVERT - HbA1c INTER-CONVERSION FLAG

Type		Code
Measurement Unit		numeric
CONVERT		Flag Indicating Inter-Conversion of HbA1c
	0	no conversion
	1	converted Flexsite 2 to Flexsite 1

	2	converted Biosafe to Flexsite 2 to Flexsite 1
	9	no result for HbA1c

FASTTIME - HOURS SINCE LAST ATE

Type	Numeric (Double)
FASTTIME	Hours Since Last Ate

C_FGLU - CLASSIFICATION OF FASTING GLUCOSE

Type	Code
Measurement Unit	numeric
C_FGLU	Classification of Fasting Glucose

	1	glucose less than or equal to 99 mg/dl
	2	glucose 100-125 mg/dl (impaired fasting glucose (IFG)/pre-diabetes)
	3	glucose greater than or equal to 126 mg/dl (diabetes)
	4	non-fasting
	5	fasting status unknown
	9	no result for glucose

C_NFGLU - CLASSIFCATION OF NON-FASTING GLUCOSE

Type	Code
Measurement Unit	numeric
C_NFGLU	Classification of Non-Fasting Glucose

	1	glucose less than or equal to 199 mg/dl
	2	glucose greater than or equal to 200 mg/dl (diabetes)
	3	fasting
	4	fasting status unknown
	9	no result for glucose

C_HBA1C - CLASSIFICATION OF HbA1c

Type	Code
Measurement Unit	numeric
C_HBA1C	Classification of HbA1c

	1	HbA1c(%) less than or equal to 5.6
	2	HbA1c(%) 5.7-6.4 (pre-diabetes)
	3	HbA1c(%) greater than or equal to 6.5 (diabetes)
	9	no result for HbA1c

C_MED - ANTI-DIABETIC MEDICATION USE

Type	Code
Measurement Unit	numeric
C_MED	Anti-Diabetic Medication Use
0	did not report taking anti-diabetic medication
1	reported taking anti-diabetic medication

C_JOINT - DIABETES JOINT CLASSIFICATION

Type	Code
Measurement Unit	numeric
C_JOINT	Joint Classification of Glucose, HbA1c, Self-Reported History of Diabetes, and Anti-Diabetic Medication Use
0	no evidence of diabetes
1	evidence of diabetes

Logical Products

Data Layouts

Wave IV Glucose - HbA1c

Wave IV Glucose - HbA1c

GLUCOSE - GLUCOSE (MG/DL)

Type	Numeric (Double)
GLUCOSE	Glucose (mg/dL)

HBA1C - HEMOGLOBIN A1c (%)

Type	Numeric (Double)
HBA1C	Hemoglobin A1c (%)

CONVERT - HbA1c INTER-CONVERSION FLAG

Type	Code

Measurement Unit		numeric
CONVERT		Flag Indicating Inter-Conversion of HbA1c
	0	no conversion
	1	converted Flexsite 2 to Flexsite 1
	2	converted Biosafe to Flexsite 2 to Flexsite 1
	9	no result for HbA1c

FASTTIME - HOURS SINCE LAST ATE

Type	Numeric (Double)
FASTTIME	Hours Since Last Ate

C_FGLU - CLASSIFICATION OF FASTING GLUCOSE

Type		Code
Measurement Unit		numeric
C_FGLU		Classification of Fasting Glucose
	1	glucose less than or equal to 99 mg/dl
	2	glucose 100-125 mg/dl (impaired fasting glucose (IFG)/pre-diabetes)
	3	glucose greater than or equal to 126 mg/dl (diabetes)
	4	non-fasting
	5	fasting status unknown
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C_NFGLU - CLASSIFCATION OF NON-FASTING GLUCOSE

Type		Code
Measurement Unit		numeric
C_NFGLU		Classification of Non-Fasting Glucose
	1	glucose less than or equal to 199 mg/dl
	2	glucose greater than or equal to 200 mg/dl (diabetes)
	3	fasting
	4	fasting status unknown
	9	no result for glucose

C_HBA1C - CLASSIFICATION OF HbA1c

Type	Code
Measurement Unit	numeric
C_HBA1C	Classification of HbA1c

1	HbA1c(%) less than or equal to 5.6
2	HbA1c(%) 5.7-6.4 (pre-diabetes)
3	HbA1c(%) greater than or equal to 6.5 (diabetes)
9	no result for HbA1c

C_MED - ANTI-DIABETIC MEDICATION USE

Type	Code
Measurement Unit	numeric
C_MED	Anti-Diabetic Medication Use

0	did not report taking anti-diabetic medication
1	reported taking anti-diabetic medication

C_JOINT - DIABETES JOINT CLASSIFICATION

Type	Code
Measurement Unit	numeric
C_JOINT	Joint Classification of Glucose, HbA1c, Self-Reported History of Diabetes, and Anti-Diabetic Medication Use

0	no evidence of diabetes
1	evidence of diabetes

Physical Instances

Wave IV Glucose - HbA1c

Title	Wave IV Glucose - HbA1c
File Name	glu_a1c.sas7bdat
Case Quantity	15701
Variable Count	9

GLUCOSE - GLUCOSE (MG/DL)

Type	Numeric (Double)
GLUCOSE	Glucose (mg/dL)

			Frequency	% of total	% of valid
Missing	.	missing	1241	7.9%	
	999	no result for glucose	504	3.21%	
		Total	1,745	11.11%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
13956	1745	36	777	107.39810...	33.074587...

HBA1C - HEMOGLOBIN A1c (%)

Type	Numeric (Double)
HBA1C	Hemoglobin A1c (%)

			Frequency	% of total	% of valid
Missing	.	missing	1300	8.28%	
	99	no result for HbA1c	71	0.45%	
		Total	1,371	8.73%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
14330	1371	3.8	23.1	5.6179064...	0.8199440...

CONVERT - HbA1c INTER-CONVERSION FLAG

Type	Code
Measurement Unit	numeric
CONVERT	Flag Indicating Inter-Conversion of HbA1c

			Frequency	% of total	% of valid
Valid	0	no conversion	14148	90.11%	98.24%
	1	converted Flexsite 2 to Flexsite 1	129	0.82%	0.9%
	2	converted Biosafe to Flexsite 2 to Flexsite 1	53	0.34%	0.37%
	9	no result for HbA1c	71	0.45%	0.49%
		Total	14,401	91.72%	100%
Missing	.	missing	1300	8.28%	
		Total	1,300	8.28%	

Valid	Invalid	Minimum	Maximum
14401	1300	0	9

FASTTIME - HOURS SINCE LAST ATE

Type	Numeric (Double)
FASTTIME	Hours Since Last Ate

			Frequency	% of total	% of valid

			Frequency	% of total	% of valid
Missing	.	missing	141	0.9%	
		Total	141	0.9%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
15560	141	0	23.9	4.9248521...	4.8772170...

C_FGLU - CLASSIFICATION OF FASTING GLUCOSE

Type	Code
Measurement Unit	numeric
C_FGLU	Classification of Fasting Glucose

			Frequency	% of total	% of valid
Valid	1	glucose less than or equal to 99 mg/dl	1039	6.62%	7.19%
	2	glucose 100-125 mg/dl (impaired fasting glucose (IFG)/pre-diabetes)	1116	7.11%	7.72%
	3	glucose greater than or equal to 126 mg/dl (diabetes)	233	1.48%	1.61%
	4	non-fasting	11449	72.92%	79.18%
	5	fasting status unknown	119	0.76%	0.82%
	9	no result for glucose	504	3.21%	3.49%
		Total	14,460	92.1%	100%
Missing	.	missing	1241	7.9%	
		Total	1,241	7.9%	

Valid	Invalid	Minimum	Maximum
14460	1241	1	9

C_NFGLU - CLASSIFCATION OF NON-FASTING GLUCOSE

Type	Code
Measurement Unit	numeric
C_NFGLU	Classification of Non-Fasting Glucose

			Frequency	% of total	% of valid
Valid	1	glucose less than or equal to 199 mg/dl	11321	72.1%	78.29%
	2	glucose greater than or equal to 200 mg/dl (diabetes)	128	0.82%	0.89%
	3	fasting	2388	15.21%	16.51%
	4	fasting status unknown	119	0.76%	0.82%
	9	no result for glucose	504	3.21%	3.49%
		Total	14,460	92.1%	100%

Missing	.	missing	1241	7.9%	
		Total	1,241	7.9%	

Valid	Invalid	Minimum	Maximum
14460	1241	1	9

C_HBA1C - CLASSIFICATION OF HbA1c

Type	Code
Measurement Unit	numeric
C_HBA1C	Classification of HbA1c

			Frequency	% of total	% of valid
Valid	1	HbA1c(%) less than or equal to 5.6	9503	60.52%	65.99%
	2	HbA1c(%) 5.7-6.4 (pre-diabetes)	4184	26.65%	29.05%
	3	HbA1c(%) greater than or equal to 6.5 (diabetes)	643	4.1%	4.46%
	9	no result for HbA1c	71	0.45%	0.49%
		Total	14,401	91.72%	100%
Missing	.	missing	1300	8.28%	
		Total	1,300	8.28%	

Valid	Invalid	Minimum	Maximum
14401	1300	1	9

C_MED - ANTI-DIABETIC MEDICATION USE

Type	Code
Measurement Unit	numeric
C_MED	Anti-Diabetic Medication Use

			Frequency	% of total	% of valid
Valid	0	did not report taking anti-diabetic medication	15478	98.58%	98.58%
	1	reported taking anti-diabetic medication	223	1.42%	1.42%
		Total	15,701	100%	100%

Valid	Invalid	Minimum	Maximum
15701	0	0	1

C_JOINT - DIABETES JOINT CLASSIFICATION

Type	Code
Measurement Unit	numeric

C_JOINT			Joint Classification of Glucose, HbA1c, Self-Reported History of Diabetes, and Anti-Diabetic Medication Use

			Frequency	% of total	% of valid
Valid	0	no evidence of diabetes	14599	92.98%	92.98%
	1	evidence of diabetes	1102	7.02%	7.02%
		Total	15,701	100%	100%

Valid	Invalid	Minimum	Maximum
15701	0	0	1