

**National Longitudinal Study of Adolescent to Adult Health (Add Health), 1994-2018 [Public Use]**

ICPSR 21600

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Wave V: Biomarkers, Measures of Glucose Homeostasis Codebook/Questionnaire

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Add Health Wave V Codebook

2021



Wave V Glucose Homeostasis Public-Use

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|  |  |
| --- | --- |
| **Wave V Glucose Homeostasis** | |
| Title | Wave V Glucose Homeostasis |
| Description | These data are unweighted, however the Add Health restricted-use data provide weights for the bio data. If interested in the nationally representative biological data, users should apply for a restricted-use contract. |
| File Name | pglua1c5.xpt |
| Case Quantity | 1839 |
| Variable Count | 11 |

|  |  |
| --- | --- |
| **AID - RESPONDENT IDENTIFIER** | |
| Type | Text |
| Constraints | Maximum Length: 8 |
| AID | Respondent Identifier Number |

|  |  |  |  |
| --- | --- | --- | --- |
| Valid | Invalid | Minimum | Maximum |
| 1839 | 0 | 57101310 | 99719976 |

|  |  |
| --- | --- |
| **H5GLUCOS - GLUCOSE (MG/DL) -W5** | |
| Type | Numeric (Double) |
| Measurement Unit | Numeric |
| H5GLUCOS | Glucose assay results (mg/dl) |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | Frequency | % of total | % of valid |
| Missing | . | missing | 194 | 10.55% |  |
|  |  | Total | 194 | 10.55% |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Valid | Invalid | Minimum | Maximum | Mean | StdDev |
| 1645 | 194 | 45 | 532 | 94.595136... | 33.405041... |

|  |  |
| --- | --- |
| **H5HBA1C - HEMOGLOBIN A1c (%) -W5** | |
| Type | Numeric (Double) |
| Measurement Unit | Numeric |
| H5HBA1C | HbA1c assay results (%) |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | Frequency | % of total | % of valid |
| Missing | . | missing | 208 | 11.31% |  |
|  |  | Total | 208 | 11.31% |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Valid | Invalid | Minimum | Maximum | Mean | StdDev |
| 1631 | 208 | 4.2 | 14 | 5.3594727... | 0.8959935... |

|  |  |
| --- | --- |
| **H5FASTTM - HOURS SINCE LAST ATE -W5** | |
| Type | Numeric (Double) |
| Measurement Unit | Numeric |
| H5FASTTM | Number of hours since the last time the respondent ate |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | Frequency | % of total | % of valid |
| Missing | . | not applicable (no blood draw) | 115 | 6.25% |  |
| -999 | implausible value < 0 hours | 3 | 0.16% |  |
| 999 | implausible value >= 24 hours | 12 | 0.65% |  |
|  |  | Total | 130 | 7.07% |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Valid | Invalid | Minimum | Maximum | Mean | StdDev |
| 1709 | 130 | 0 | 23.8 | 9.3934289... | 5.4579962... |

|  |  |
| --- | --- |
| **H5FASTGL - FLAG: FASTED FOR 8+ HOURS -W5** | |
| Type | Code |
| Measurement Unit | Numeric |
| H5FASTGL | FLAG indicating respondent fasted for eight or more hours |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | Frequency | % of total | % of valid |
| Valid | 0 | no | 613 | 33.33% | 35.87% |
| 1 | yes | 1096 | 59.6% | 64.13% |
|  |  | Total | 1,709 | 92.93% | 100% |
| Missing | . | not applicable (no fasting hours) | 130 | 7.07% |  |
|  |  | Total | 130 | 7.07% |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Valid | Invalid | Minimum | Maximum |
| 1709 | 130 | 0 | 1 |

|  |  |
| --- | --- |
| **H5CFGLU - CLASS OF FASTING GLUCOSE (ADA) -W5** | |
| Type | Code |
| Measurement Unit | Numeric |
| H5CFGLU | The classification of glucose concentrations among respondents who were fasting (>= 8 hours) at the time of blood collection. It was constructed according to the 2020 American Diabetes Association clinical practice recommendations for the diagnosis and classification of diabetes. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | Frequency | % of total | % of valid |
| Valid | 1 | Normal: glucose is < 100 mg/dl | 879 | 47.8% | 53.43% |
| 2 | Impaired Fasting Glucose (IFG)/Pre-Diabetes: glucose is 100-125 mg/dl | 125 | 6.8% | 7.6% |
| 3 | Diabetes: glucose is > 125 mg/dl | 44 | 2.39% | 2.67% |
| 4 | Non-fasting | 583 | 31.7% | 35.44% |
| 5 | Fasting status unknown | 14 | 0.76% | 0.85% |
|  |  | Total | 1,645 | 89.45% | 100% |
| Missing | . | not applicable (no glucose result) | 194 | 10.55% |  |
|  |  | Total | 194 | 10.55% |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Valid | Invalid | Minimum | Maximum |
| 1645 | 194 | 1 | 5 |

|  |  |
| --- | --- |
| **H5CNFGLU - CLASS OF NON-FASTING GLUCOSE (ADA) -W5** | |
| Type | Code |
| Measurement Unit | Numeric |
| H5CNFGLU | The classification of glucose concentrations among respondents who were non-fasting (< 8 hours) at the time of blood collection. It was constructed according to the 2020 American Diabetes Association clinical practice recommendations for the diagnosis and classification of diabetes. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | Frequency | % of total | % of valid |
| Valid | 1 | Normal: glucose is < 200 mg/dl | 565 | 30.72% | 34.35% |
| 2 | Diabetes: glucose is >= 200 mg/dl | 18 | 0.98% | 1.09% |
| 3 | Fasting | 1048 | 56.99% | 63.71% |
| 4 | Fasting status unknown | 14 | 0.76% | 0.85% |
|  |  | Total | 1,645 | 89.45% | 100% |
| Missing | . | not applicable (no glucose result) | 194 | 10.55% |  |
|  |  | Total | 194 | 10.55% |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Valid | Invalid | Minimum | Maximum |
| 1645 | 194 | 1 | 4 |

|  |  |
| --- | --- |
| **H5CHBA1C - CLASSIFICATION OF HbA1c (ADA) -W5** | |
| Type | Code |
| Measurement Unit | Numeric |

|  |  |
| --- | --- |
| H5CHBA1C | The classification of HbA1c among respondents was constructed without regard to fasting status at the time of blood collection according to the 2020 American Diabetes Association clinical practice recommendations for the diagnosis and classification of diabetes. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | Frequency | % of total | % of valid |
| Valid | 1 | Normal: HbA1c (%) is < 5.7 | 1427 | 77.6% | 87.49% |
| 2 | Pre-Diabetes: HbA1c (%) is 5.7 - 6.4 | 135 | 7.34% | 8.28% |
| 3 | Diabetes: HbA1c (%) is > 6.4 | 69 | 3.75% | 4.23% |
|  |  | Total | 1,631 | 88.69% | 100% |
| Missing | . | not applicable (no HbA1c result) | 208 | 11.31% |  |
|  |  | Total | 208 | 11.31% |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Valid | Invalid | Minimum | Maximum |
| 1631 | 208 | 1 | 3 |

|  |  |
| --- | --- |
| **H5Q045B - Q045b EVER DX WITH DIABETES -W5** | |
| Type | Code |
| Measurement Unit | Numeric |
| H5Q045B | Has a doctor, nurse or health care provider ever told you that you have high blood sugar or diabetes (if female, when you were NOT pregnant)? |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | Frequency | % of total | % of valid |
| Valid | 0 | no | 1718 | 93.42% | 93.47% |
| 1 | yes | 120 | 6.53% | 6.53% |
|  |  | Total | 1,838 | 99.95% | 100% |
| Missing | 95 | not asked of everyone | 1 | 0.05% |  |
|  |  | Total | 1 | 0.05% |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Valid | Invalid | Minimum | Maximum |
| 1838 | 1 | 0 | 1 |

|  |  |
| --- | --- |
| **H5C\_MED - FLAG: ANTI-DIABETIC MED USE -W5** | |
| Type | Code |
| Measurement Unit | Numeric |
| H5C\_MED | FLAG indicating respondent took an anti-diabetic medication in the past 4 weeks |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Frequency | % of total | % of valid |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Valid | 0 | no | 1718 | 93.42% | 95.29% |
| 1 | yes | 85 | 4.62% | 4.71% |
|  |  | Total | 1,803 | 98.04% | 100% |
| Missing | 94 | exam stopped prior to the medication questions | 5 | 0.27% |  |
| 96 | refused | 1 | 0.05% |  |
| 99 | respondent reported taking prescription medication(s), but specific medication(s) not reported | 30 | 1.63% |  |
|  |  | Total | 36 | 1.96% |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Valid | Invalid | Minimum | Maximum |
| 1803 | 36 | 0 | 1 |

|  |  |
| --- | --- |
| **H5DIABJC - DIABETES JOINT CLASSIFICATION -W5** | |
| Type | Code |
| Measurement Unit | Numeric |
| H5DIABJC | FLAG indicating respondent has EITHER fasting glucose >= 126 mg/dl (H5CFGLU=3) OR non-fasting glucose >= 200 mg/dl (H5CNFGLU=2) OR HbA1c  >= 6.5% (H5CHBA1C=3) OR a self-reported history of diabetes except during  pregnancy (H5Q045B=1) OR has taken an anti-diabetic medication in the past 4 weeks (H5C\_MED=1) |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | Frequency | % of total | % of valid |
| Valid | 0 | no evidence of diabetes | 1676 | 91.14% | 91.14% |
| 1 | evidence of diabetes | 163 | 8.86% | 8.86% |
|  |  | Total | 1,839 | 100% | 100% |

|  |  |  |  |
| --- | --- | --- | --- |
| Valid | Invalid | Minimum | Maximum |
| 1839 | 0 | 0 | 1 |