

Data Set Name: riseadult_basedata.sas7bdat

| Num | Variable | Type | Len | Label |
|-----|--------------------|------|-----|--------------------------------|
| 1 | treatment | Char | 23 | Treatment Text |
| 2 | sex | Num | 8 | Sex (1=Male, 2=Female) |
| 3 | RACE | Num | 8 | Race/Ethnicity 1=White 2=Other |
| 4 | RISE_REPOSITORY_ID | Char | 9 | RISE Repository ID |
| 5 | AGEGROUP | Char | 14 | Age group at randomization |
| 6 | RANDPER | Num | 8 | Period of Randomization |

Data Set Name: riseadult_basedata_niddk_only.sas7bdat

| Num | Variable | Type | Len | Format | Label |
|-----|--------------------|------|-----|-----------|------------------------|
| 1 | RANDDATE | Num | 8 | MMDDYY10. | Date of randomization |
| 2 | treatment | Char | 23 | | Treatment Text |
| 3 | sex | Num | 8 | | Sex (1=Male, 2=Female) |
| 4 | RACE | Num | 8 | | Race/Ethnicity |
| 5 | agerand | Num | 8 | | Age at randomization |
| 6 | RISE_REPOSITORY_ID | Char | 9 | | RISE Repository ID |

Data Set Name: riseadult_baseline.sas7bdat

| Num | Variable | Type | Len | Format | Informat | Label |
|------------|--------------------|-------------|------------|---------------|-----------------|--|
| 1 | RISE_REPOSITORY_ID | Char | 9 | | | RISE Repository ID |
| 2 | VISIT | Char | 3 | | | Study Visit |
| 3 | BAOSPEC1 | Char | 15 | \$15. | \$15. | If other, specify (anti hyper) |
| 4 | BAOSPEC2 | Char | 15 | \$15. | \$15. | If other, specify (lip low) |
| 5 | BAOTHSPEC | Char | 30 | \$30. | \$30. | If "Other," specify: |
| 6 | BAACE | Num | 8 | 1. | | ACE inhibitor |
| 7 | BAANTIHYP | Num | 8 | 1. | | Antihypertensives? |
| 8 | BAARB | Num | 8 | 1. | | ARB |
| 9 | BABETA | Num | 8 | 1. | | Beta blocker |
| 10 | BACNTRCPT | Num | 8 | 1. | | Do you use contraception? |
| 11 | BADIAMED | Num | 8 | 1. | | Diabetes medication? |
| 12 | BADIURET | Num | 8 | 1. | | Diuretic |
| 13 | BADPP4 | Num | 8 | 1. | | DPP-4 inhibitor |
| 14 | BAEXENLIRA | Num | 8 | 1. | | Exenatide or liraglutide |
| 15 | BAFIBRATE | Num | 8 | 1. | | Fibrate |
| 16 | BAGLRGDISNUM | Num | 8 | 2. | | Number of pens (glargine) |
| 17 | BAGLRGDISP | Num | 8 | 1. | | Insulin glargine dispensed? |
| 18 | BAHORMCON | Num | 8 | 1. | | Hormonal contraception? |
| 19 | BAHYPONUM | Num | 8 | 2. | | Number of episodes mild hypoglycemia |
| 20 | BAINHALE | Num | 8 | 1. | | Inhaled steroids |
| 21 | BAINJECT | Num | 8 | 1. | | Injection steroids |
| 22 | BAINSUL | Num | 8 | 1. | | Insulin |
| 23 | BALIPLOW | Num | 8 | 1. | | Lipid lowering medications? |
| 24 | BALIRADISP | Num | 8 | 1. | | liraglutide dispensed? |
| 25 | BALIRANUM | Num | 8 | 2. | | Number of pens (liraglutide) |
| 26 | BALOWBS | Num | 8 | 1. | | Episode(s) of low blood sugar? |
| 27 | BAMEDS | Num | 8 | 1. | | Taken any meds? |
| 28 | BAMETDISP | Num | 8 | 1. | | metformin/placebo dispensed? |
| 29 | BAMETNUM | Num | 8 | 1. | | Number of bottles |
| 30 | BAMILDHYP | Num | 8 | 1. | | Repeated mild hypoglycemia? |
| 31 | BANIACIN | Num | 8 | 1. | | Niacin |
| 32 | BANOBABY | Num | 8 | | | What are you doing to avoid having a baby? |
| 33 | BAORALST | Num | 8 | 1. | | Oral steroid |
| 34 | BAOSTDAYS | Num | 8 | 2. | | Total days oral steroids used since last visit |
| 35 | BAOTH1 | Num | 8 | 1. | | Other (antihyper) |
| 36 | BAOTH2 | Num | 8 | 1. | | Other (lipid lowering) |
| 37 | BAOTH3 | Num | 8 | 1. | | Other (diabetes meds) |

| Num | Variable | Type | Len | Format | Informat | Label |
|-----|------------|------|-----|--------|----------|--|
| 38 | BAOTHER | Num | 8 | 1. | | Other clinically important symptoms? |
| 39 | BAPREGTEST | Num | 8 | | | Result of pregnancy test |
| 40 | BAPSYCHO | Num | 8 | 1. | | Atypical psychotropics? |
| 41 | BASEQUEST | Num | 8 | 1. | | Bile acid sequestrant |
| 42 | BASKINRASH | Num | 8 | 1. | | Skin rashes? |
| 43 | BASTATIN | Num | 8 | 1. | | Statin |
| 44 | BASTDYMET | Num | 8 | 1. | | Study Metformin |
| 45 | BASTER | Num | 8 | 1. | | Steroids? |
| 46 | BASTIM | Num | 8 | 1. | | Stimulants? |
| 47 | BASTOMACH | Num | 8 | 1. | | Stomach/GI problems |
| 48 | BASULF | Num | 8 | 1. | | Sulfonylurea |
| 49 | BASYMP | Num | 8 | 1. | | Symptoms of diabetes out of control |
| 50 | BATHIAZ | Num | 8 | 1. | | Thiazolidinedione |
| 51 | BAWGHTLOSS | Num | 8 | | | Weight loss treatments? |
| 52 | BENONMET | Num | 8 | 1. | | Non-study metformin |
| 53 | BIRDEF | Num | 8 | 1. | | congenital anomaly or birth defect? |
| 54 | DBP | Num | 8 | 3. | | Diastolic BP reading |
| 55 | DISABILITY | Num | 8 | 1. | | Permanent or severe disability? |
| 56 | HEIGHT1 | Num | 8 | 5.1 | | Height Measure 1 |
| 57 | HEIGHT2 | Num | 8 | 5.1 | | Weight Measure 2 |
| 58 | HEIGHT3 | Num | 8 | 5.1 | | Height Measure 3 |
| 59 | HIP1 | Num | 8 | 5.1 | | Hip circumference 1 |
| 60 | HIP2 | Num | 8 | 5.1 | | Hip circumference 2 |
| 61 | HIP3 | Num | 8 | 5.1 | | Hip circumference 3 |
| 62 | HOSPITAL | Num | 8 | 1. | | Required or prolonged hospitalization? |
| 63 | OTHMED | Num | 8 | 1. | | Other serious medical event? |
| 64 | OVERDOSE | Num | 8 | 1. | | Overdose of a study medication? |
| 65 | PREG | Num | 8 | 1. | | Pregnant? |
| 66 | PREVENT | Num | 8 | 1. | | Required intervention to prevent sae? |
| 67 | SBP | Num | 8 | 3. | | Systolic BP reading |
| 68 | SEVHYPO | Num | 8 | 1. | | episode of hypoglycemia? |
| 69 | THREAT | Num | 8 | 1. | | Any acute life-threatening event? |
| 70 | WAIST1 | Num | 8 | 5.1 | | Waist circumference measure 1 |
| 71 | WAIST2 | Num | 8 | 5.1 | | Waist circumference measure 2 |
| 72 | WAIST3 | Num | 8 | 5.1 | | Waist circumference measure 3 |
| 73 | WEIGHT1 | Num | 8 | 5.1 | | Weight Measure 1 |
| 74 | WEIGHT2 | Num | 8 | 5.1 | | Weight Measure 2 |
| 75 | WEIGHT3 | Num | 8 | 5.1 | | Weight Measure 3 |
| 76 | DAYSRAND | Num | 8 | | | Days since RISE Randomization |

Data Set Name: riseadult_clamp.sas7bdat

| Num | Variable | Type | Len | Format | Informat | Label |
|-----|--------------------|------|-----|--------|----------|-----------------------------------|
| 1 | RISE_REPOSITORY_ID | Char | 9 | | | RISE Repository ID |
| 2 | VISIT | Char | 3 | | | Study Visit |
| 3 | CLWHY | Char | 300 | \$300. | \$300. | Why not completed/with a problem? |
| 4 | CLAGLUC100 | Num | 8 | 3. | | 14. 100 minutes*[:] |
| 5 | CLAGLUC110 | Num | 8 | 3. | | 15. 110 minutes[:] |
| 6 | CLAGLUC120 | Num | 8 | 3. | | 16. 120 minutes[:] |
| 7 | CLAGLUC30 | Num | 8 | 3. | | 11. 30 minutes[:] |
| 8 | CLAGLUC60 | Num | 8 | 3. | | 12. 60 minutes[:] |
| 9 | CLAGLUC90 | Num | 8 | 3. | | 13. 90 minutes[:] |
| 10 | CLAGLUCM1 | Num | 8 | 3. | | 21. -1 minute pre-argin[:] |
| 11 | CLAGLUCM5 | Num | 8 | 3. | | 20. -5 minutes pre-argi[:] |
| 12 | CLAINF100 | Num | 8 | 3. | | 14. 100 minutes*[:] |
| 13 | CLAINF110 | Num | 8 | 3. | | 15. 110 minutes[:] |
| 14 | CLAINF120 | Num | 8 | 3. | | 16. 120 minutes[:] |
| 15 | CLAINF30 | Num | 8 | 3. | | 11. 30 minutes[:] |
| 16 | CLAINF60 | Num | 8 | 3. | | 12. 60 minutes[:] |
| 17 | CLAINF90 | Num | 8 | 3. | | 13. 90 minutes[:] |
| 18 | CLAINFM1 | Num | 8 | 3. | | 21. -1 minute pre-argin[:] |
| 19 | CLAINFM5 | Num | 8 | 3. | | 20. -5 minutes pre-argi[:] |
| 20 | CLATIME100M | Num | 8 | 3. | | 14. 100 minutes*[:] |
| 21 | CLATIME100S | Num | 8 | 2. | | 14. 100 minutes*[:] |
| 22 | CLATIME110M | Num | 8 | 3. | | 15. 110 minutes[:] |
| 23 | CLATIME110S | Num | 8 | 2. | | 15. 110 minutes[:] |
| 24 | CLATIME120M | Num | 8 | 3. | | 16. 120 minutes[:] |
| 25 | CLATIME120S | Num | 8 | 2. | | 16. 120 minutes[:] |
| 26 | CLATIME30M | Num | 8 | 3. | | 11. 30 minutes[:] |
| 27 | CLATIME30S | Num | 8 | 2. | | 11. 30 minutes[:] |
| 28 | CLATIME60M | Num | 8 | 3. | | 12. 60 minutes[:] |
| 29 | CLATIME60S | Num | 8 | 2. | | 12. 60 minutes[:] |
| 30 | CLATIME90M | Num | 8 | 3. | | 13. 90 minutes[:] |
| 31 | CLATIME90S | Num | 8 | 2. | | 13. 90 minutes[:] |
| 32 | CLATIMEM1M | Num | 8 | 3. | | 21. -1 minute pre-argin[:] |
| 33 | CLATIMEM1S | Num | 8 | 2. | | 21. -1 minute pre-argin[:] |
| 34 | CLATIMEM5M | Num | 8 | 3. | | 20. -5 minutes pre-argi[:] |
| 35 | CLATIMEM5S | Num | 8 | 2. | | 20. -5 minutes pre-argi[:] |
| 36 | CLBOLUS1 | Num | 8 | 4. | | Stage 1 D20W glucose bolus |
| 37 | CLBOLUS2 | Num | 8 | 4. | | Stage 2 D20W glucose bolus |

| Num | Variable | Type | Len | Format | Informat | Label |
|-----|--------------|------|-----|--------|----------|---|
| 38 | CLD50BOLAMT | Num | 8 | 2. | | Stage 2 D50 glucose bolus |
| 39 | CLD50BOLUS | Num | 8 | 1. | | Was the Stage 2 D50W glucose bolus required (50ml)? |
| 40 | CLFASTCGLM10 | Num | 8 | 5.1 | | -10 min fasting bedside glucose |
| 41 | CLFASTCGLM5 | Num | 8 | 5.1 | | -5 min fasting bedside glucose |
| 42 | CLPREP | Num | 8 | 1. | | participant prepared for the clamp test? |
| 43 | CLPROBLEM | Num | 8 | | | Hyperglycemic clamp problems |
| 44 | CLQC10 | Num | 8 | 3. | | Glucose value at standard (200 mg/dl) |
| 45 | CLURINE | Num | 8 | 4. | | URINE at end STAGE 1 |
| 46 | WEIGHT | Num | 8 | 5.1 | | Weight |
| 47 | DAYSRAND | Num | 8 | | | Days since RISE Randomization |

Data Set Name: riseadult_clampdata.sas7bdat

| Num | Variable | Type | Len | Label |
|-----|--------------------|------|-----|---------------------------------|
| 1 | RISE_REPOSITORY_ID | Char | 9 | RISE Repository ID |
| 2 | VISIT | Char | 3 | Study Visit |
| 3 | gluc120 | Num | 8 | Clamp Glucose 120 min (mg/dl) |
| 4 | gluc_10 | Num | 8 | Clamp Glucose -10 min (mg/dl) |
| 5 | gluc_05 | Num | 8 | Clamp Glucose -5 min (mg/dl) |
| 6 | gluc010 | Num | 8 | Clamp Glucose 10 min (mg/dl) |
| 7 | gluc030 | Num | 8 | Clamp Glucose 30 min (mg/dl) |
| 8 | gluc060 | Num | 8 | Clamp Glucose 60 min (mg/dl) |
| 9 | gluc090 | Num | 8 | Clamp Glucose 90 min (mg/dl) |
| 10 | ins_10 | Num | 8 | Clamp Insulin -10 min (uU/ml) |
| 11 | ins_05 | Num | 8 | Clamp Insulin -5 min (uU/ml) |
| 12 | ins010 | Num | 8 | Clamp Insulin 10 min (uU/ml) |
| 13 | ins030 | Num | 8 | Clamp Insulin 30 min (uU/ml) |
| 14 | ins060 | Num | 8 | Clamp Insulin 60 min (uU/ml) |
| 15 | ins090 | Num | 8 | Clamp Insulin 90 min (uU/ml) |
| 16 | ins120 | Num | 8 | Clamp Insulin 120 min (uU/ml) |
| 17 | cpep_10 | Num | 8 | Clamp C-peptide -10 min (ng/ml) |
| 18 | cpep_05 | Num | 8 | Clamp C-peptide -5 min (ng/ml) |
| 19 | cpep010 | Num | 8 | Clamp C-peptide 10 min (ng/ml) |
| 20 | cpep030 | Num | 8 | Clamp C-peptide 30 min (ng/ml) |
| 21 | cpep060 | Num | 8 | Clamp C-peptide 60 min (ng/ml) |
| 22 | cpep090 | Num | 8 | Clamp C-peptide 90 min (ng/ml) |
| 23 | cpep120 | Num | 8 | Clamp C-peptide 120 min (ng/ml) |
| 24 | gluc002 | Num | 8 | Clamp Glucose 2 min (mg/dl) |
| 25 | gluc004 | Num | 8 | Clamp Glucose 4 min (mg/dl) |
| 26 | gluc006 | Num | 8 | Clamp Glucose 6 min (mg/dl) |
| 27 | gluc008 | Num | 8 | Clamp Glucose 8 min (mg/dl) |
| 28 | gluc100 | Num | 8 | Clamp Glucose 100 min (mg/dl) |
| 29 | gluc110 | Num | 8 | Clamp Glucose 110 min (mg/dl) |
| 30 | gluc155 | Num | 8 | Clamp Glucose 155 min (mg/dl) |
| 31 | gluc159 | Num | 8 | Clamp Glucose 159 min (mg/dl) |
| 32 | gluc162 | Num | 8 | Clamp Glucose 162 min (mg/dl) |
| 33 | gluc163 | Num | 8 | Clamp Glucose 163 min (mg/dl) |
| 34 | gluc164 | Num | 8 | Clamp Glucose 164 min (mg/dl) |
| 35 | gluc165 | Num | 8 | Clamp Glucose 165 min (mg/dl) |
| 36 | ins002 | Num | 8 | Clamp Insulin 2 min (uU/ml) |
| 37 | ins004 | Num | 8 | Clamp Insulin 4 min (uU/ml) |

| Num | Variable | Type | Len | Label |
|-----|-----------------|------|-----|---|
| 38 | ins006 | Num | 8 | Clamp Insulin 6 min (uU/ml) |
| 39 | ins008 | Num | 8 | Clamp Insulin 8 min (uU/ml) |
| 40 | ins100 | Num | 8 | Clamp Insulin 100 min (uU/ml) |
| 41 | ins110 | Num | 8 | Clamp Insulin 110 min (uU/ml) |
| 42 | ins155 | Num | 8 | Clamp Insulin 155 min (uU/ml) |
| 43 | ins159 | Num | 8 | Clamp Insulin 159 min (uU/ml) |
| 44 | ins162 | Num | 8 | Clamp Insulin 162 min (uU/ml) |
| 45 | ins163 | Num | 8 | Clamp Insulin 163 min (uU/ml) |
| 46 | ins164 | Num | 8 | Clamp Insulin 164 min (uU/ml) |
| 47 | ins165 | Num | 8 | Clamp Insulin 165 min (uU/ml) |
| 48 | cpep002 | Num | 8 | Clamp C-peptide 2 min (ng/ml) |
| 49 | cpep004 | Num | 8 | Clamp C-peptide 4 min (ng/ml) |
| 50 | cpep006 | Num | 8 | Clamp C-peptide 6 min (ng/ml) |
| 51 | cpep008 | Num | 8 | Clamp C-peptide 8 min (ng/ml) |
| 52 | cpep100 | Num | 8 | Clamp C-peptide 100 min (ng/ml) |
| 53 | cpep110 | Num | 8 | Clamp C-peptide 110 min (ng/ml) |
| 54 | cpep155 | Num | 8 | Clamp C-peptide 155 min (ng/ml) |
| 55 | cpep159 | Num | 8 | Clamp C-peptide 159 min (ng/ml) |
| 56 | cpep162 | Num | 8 | Clamp C-peptide 162 min (ng/ml) |
| 57 | cpep163 | Num | 8 | Clamp C-peptide 163 min (ng/ml) |
| 58 | cpep164 | Num | 8 | Clamp C-peptide 164 min (ng/ml) |
| 59 | cpep165 | Num | 8 | Clamp C-peptide 165 min (ng/ml) |
| 60 | GIR | Num | 8 | Glucose infusion rate as mg/min (infrate*(D20gluc/100)) |
| 61 | insulin_steady | Num | 8 | SS insulin (uU/ml) |
| 62 | M_I | Num | 8 | M/I * 1000 (mg/kg/min/pg/L) |
| 63 | cpeptide_steady | Num | 8 | Clamp C-Peptide at steady state (ng/dL) |
| 64 | ACPRmax | Num | 8 | ACPRmax incremental mean (cpeptide) |
| 65 | airmax | Num | 8 | AIRmax incremental mean (Insulin) |
| 66 | ACPRg | Num | 8 | Clamp ACPRg, (ng/dL) |
| 67 | AIRg | Num | 8 | AIRg (Insulin) |
| 68 | glucagon100 | Num | 8 | Clamp Glucagon 100 min (pM/L) |
| 69 | glucagon110 | Num | 8 | Clamp Glucagon 110 min (pM/L) |
| 70 | glucagon155 | Num | 8 | Clamp Glucagon 155 min (pM/L) |
| 71 | glucagon159 | Num | 8 | Clamp Glucagon 159 min (pM/L) |
| 72 | glucagon162 | Num | 8 | Clamp Glucagon 162 min (pM/L) |
| 73 | glucagon163 | Num | 8 | Clamp Glucagon 163 min (pM/L) |
| 74 | glucagon164 | Num | 8 | Clamp Glucagon 164 min (pM/L) |
| 75 | glucagon165 | Num | 8 | Clamp Glucagon 165 min (pM/L) |
| 76 | glucagon_10 | Num | 8 | Clamp Glucagon -10 min (pM/L) |

| Num | Variable | Type | Len | Label |
|-----|-------------|------|-----|-------------------------------|
| 77 | glucagon_05 | Num | 8 | Clamp Glucagon -5 min (pM/L) |
| 78 | glucagon120 | Num | 8 | Clamp Glucagon 120 min (pM/L) |

Data Set Name: riseadult_exitform.sas7bdat

| Num | Variable | Type | Len | Format | Informat | Label |
|-----|--------------------|------|-----|---------|----------|--|
| 1 | RISE_REPOSITORY_ID | Char | 9 | | | RISE Repository ID |
| 2 | VISIT | Char | 3 | \$F3. | \$F3. | Study Visit |
| 3 | EXBDIFSPEC | Char | 25 | \$25. | \$25. | Specify: |
| 4 | EXDMETPLACTK | Char | 2 | \$2. | \$2. | Would you consider taking metformin for a longer time period if recommended by your doctor? (Metformin/Placebo Ppts) |
| 5 | EXEMOTIV | Char | 299 | \$299. | \$299. | What motivated you to join the RISE study? |
| 6 | EXELIKE | Char | 287 | \$287. | \$287. | What did you like best about participating in the RISE study? |
| 7 | EXEDISLIKE | Char | 237 | \$237. | \$237. | What did you dislike the most about the RISE study? |
| 8 | EXEADDCOMM | Char | 268 | \$268. | \$268. | Please share any additional comments about the RISE study. |
| 9 | EXACARE | Num | 8 | BEST12. | F12. | I received good care for my diabetes or prediabetes. |
| 10 | EXAFAM | Num | 8 | BEST12. | F12. | I had the support of my family or friends to participate in RISE. |
| 11 | EXAHELP | Num | 8 | BEST12. | F12. | I was part of a large study to learn more about diabetes and prediabetes and help others. |
| 12 | EXAHISTORY | Num | 8 | BEST12. | F12. | I have a history of diabetes in my family. |
| 13 | EXAMEDS | Num | 8 | BEST12. | F12. | I received free diabetes medicines and supplies. |
| 14 | EXAMOTIV | Num | 8 | BEST12. | F12. | I am motivated to take care of my health. |
| 15 | EXAPAIID | Num | 8 | BEST12. | F12. | I was paid to come to RISE visits. |
| 16 | EXATESTS | Num | 8 | BEST12. | F12. | I received medical tests and procedures. |
| 17 | EXATRUST | Num | 8 | BEST12. | F12. | I have a longstanding and trusting relationship with my RISE medical team. |
| 18 | EXBDIF | Num | 8 | BEST12. | F12. | I had a different problem (write in): |
| 19 | EXBDISAP | Num | 8 | BEST12. | F12. | I worried that the RISE study team will be disappointed in how I am taking care of my diabetes. |
| 20 | EXBMEDPR | Num | 8 | BEST12. | F12. | Other medical problems made it hard to take care of my diabetes or prediabetes. |
| 21 | EXBMEDS | Num | 8 | BEST12. | F12. | I did not like taking the RISE medications. |
| 22 | EXBMJRPROB | Num | 8 | BEST12. | F12. | I did not consider my diabetes/prediabetes to be a major problem in my life. |
| 23 | EXBSCHED | Num | 8 | BEST12. | F12. | I had conflicts with school, work, or family responsibilities and it was difficult to schedule visits. |
| 24 | EXBSMBG | Num | 8 | BEST12. | F12. | I did not like testing my blood sugar. (Leave blank if not applicable) |
| 25 | EXBSTAFF | Num | 8 | BEST12. | F12. | I had a hard time interacting with the RISE study staff. |
| 26 | EXBTALK | Num | 8 | BEST12. | F12. | I didn't want to talk or think about my health. |
| 27 | EXBTIME | Num | 8 | BEST12. | F12. | I had difficulty with the length and time of RISE study visits. |
| 28 | EXBTRANSP | Num | 8 | BEST12. | F12. | I had difficulty getting to RISE study visits due to problems with transportation, or weather problems. |
| 29 | EXBTSTQST | Num | 8 | BEST12. | F12. | I did not like the testing and being asked so many questions. |
| 30 | EXCANOTHER | Num | 8 | F1. | F1. | Based on your experience with RISE, would you participate in another research study? |
| 31 | EXCANOTHER2 | Num | 8 | F1. | F1. | Would you consider participating in another research study? |

| Num | Variable | Type | Len | Format | Informat | Label |
|-----|--------------|------|-----|---------|----------|--|
| 32 | EXCANOTHWHY | Num | 8 | BEST12. | F12. | If NO, please select the primary reason that you would not participate in another research study from the list below. |
| 33 | EXCEXPL | Num | 8 | F1. | F1. | Did you feel the study requirements were adequately explained before starting the study? |
| 34 | EXCFIRST | Num | 8 | F1. | F1. | Is this the first research study in which you have participated? |
| 35 | EXCGAIN | Num | 8 | F1. | F1. | Do you feel that you gained anything personally from participation in the study? |
| 36 | EXDGLGLRGMET | Num | 8 | F1. | F1. | Would you consider taking insulin glargine for a longer time period if recommended by your doctor? (Glargine followed by metformin ppts) |
| 37 | EXDGLMETTAKE | Num | 8 | F1. | F1. | Would you consider taking metformin for a longer time period if recommended by your doctor? (Glargine followed by metformin ppts) |
| 38 | EXDLIRATAKE | Num | 8 | F1. | F1. | Would you consider taking liraglutide for a longer time period if recommended by your doctor? (liraglutide ppts) |
| 39 | EXDLIRMETTAK | Num | 8 | F1. | F1. | Would you consider taking metformin for a longer time period if recommended by your doctor? (liraglutide ppts) |
| 40 | EXDMETPLACT0 | Num | 8 | F1. | F1. | Would you consider taking metformin for a longer time period if recommended by your doctor? (Metformin/Placebo Ppts) |
| 41 | EXDMETTAKE | Num | 8 | F1. | F1. | Would you consider taking metformin for a longer time period if recommended by your doctor? (metformin alone ped ppts) |
| 42 | EXLRGPILLS | Num | 8 | BEST12. | F12. | I thought the pills were too large. |
| 43 | EXMEDSGEN | Num | 8 | BEST12. | F12. | I do not like taking medications in general. |
| 44 | EXNEEDLE | Num | 8 | BEST12. | F12. | I dislike using needles. |
| 45 | EXSIDEFX | Num | 8 | BEST12. | F12. | The medication caused side effects (stomach issues, headaches, etc). |
| 46 | EXWGHT | Num | 8 | BEST12. | F12. | The medication caused me to gain weight. |
| 47 | DAYSRAND | Num | 8 | | | Days since RISE Randomization |

Data Set Name: riseadult_history.sas7bdat

| Num | Variable | Type | Len | Format | Label |
|-----|--------------------|------|-----|--------|---|
| 1 | RISE_REPOSITORY_ID | Char | 9 | | RISE Repository ID |
| 2 | VISIT | Char | 3 | | Study Visit |
| 3 | HIADULTS | Num | 8 | 2. | Adults 18 and older |
| 4 | HIAGELAST | Num | 8 | 2. | How old was she at her last period? |
| 5 | HIBIRTHDK | Num | 8 | 1. | Don't know birth weight |
| 6 | HIBIRTHGRM | Num | 8 | 4. | participant's birth weight in grams |
| 7 | HIBIRTHLBS | Num | 8 | 2. | Participants Birth weight pounds |
| 8 | HIBIRTHOZ | Num | 8 | 2. | Participant's birth weight ounces |
| 9 | HIDEPRESS | Num | 8 | 1. | Depression |
| 10 | HIFATS | Num | 8 | 1. | Any lipid abnormality |
| 11 | HIHEART | Num | 8 | 1. | Heart disease |
| 12 | HIHIGHBP | Num | 8 | 1. | High blood pressure |
| 13 | HIHOUSE | Num | 8 | 2. | Total (Adults plus children) |
| 14 | HIINCOME | Num | 8 | | total income of household |
| 15 | HIKIDS | Num | 8 | 2. | Children (<18 years) |
| 16 | HIMENST | Num | 8 | | participant still menstruating? |
| 17 | HIMOMDIA | Num | 8 | | participant's monther ever diagnosed with diabetes? |
| 18 | HIPCOS | Num | 8 | 1. | Polycystic ovaries? |
| 19 | HIPERAGE | Num | 8 | 2. | Age when periods began |
| 20 | HIPERIOD | Num | 8 | | Has the participant had her first period? |
| 21 | HIPERNUM | Num | 8 | 2. | Number of periods in the past 12 months |
| 22 | HIPRGDIAAWAY | Num | 8 | | diabetes go away after the participant was born? |
| 23 | HIPRGDIAOTH | Num | 8 | | ppt's monther have diabetes during other pregnant? |
| 24 | HIPRGDIAPPT | Num | 8 | | ppt's monther have diabetes when pregnant with ppt? |
| 25 | HISCHOOL | Num | 8 | | Highest degree or level of school |
| 26 | HISLEEP | Num | 8 | 1. | Sleep apnea |
| 27 | DAYSRAND | Num | 8 | | Days since RISE Randomization |

Data Set Name: riseadult_loclab.sas7bdat

| Num | Variable | Type | Len | Format | Label |
|-----|--------------------|------|-----|--------|--|
| 1 | RISE_REPOSITORY_ID | Char | 9 | | RISE Repository ID |
| 2 | VISIT | Char | 3 | | Study Visit |
| 3 | LOALT | Num | 8 | 5.1 | ALT |
| 4 | LOHBA1C | Num | 8 | 4.1 | HbA1c (if processed locally, see note above) |
| 5 | LOHEMAT | Num | 8 | 4.1 | Hematocrit |
| 6 | LOHEMOG | Num | 8 | 4.1 | Hemoglobin |
| 7 | LOERCRT | Num | 8 | 3.1 | Serum creatinine |
| 8 | DAYSRAND | Num | 8 | | Days since RISE Randomization |

Data Set Name: riseadult_ogtt.sas7bdat

| Num | Variable | Type | Len | Format | Informat | Label |
|-----|--------------------|------|-----|--------|----------|---|
| 1 | RISE_REPOSITORY_ID | Char | 9 | | | RISE Repository ID |
| 2 | VISIT | Char | 3 | | | Study Visit |
| 3 | OGGLEN1 | Char | 3 | \$3. | \$3. | Time glucose consumption ended minutes |
| 4 | OGCOMPLETE | Num | 8 | | | OGTT completed/with/without problem |
| 5 | OGDRAW10M | Num | 8 | 3. | | Time 10 min sample drawn minutes |
| 6 | OGDRAW10S | Num | 8 | 2. | | Time 10 min sample drawn seconds |
| 7 | OGDRAW120M | Num | 8 | 3. | | Time 120 min sample drawn minutes |
| 8 | OGDRAW120S | Num | 8 | 2. | | Time 120 min sample drawn seconds |
| 9 | OGDRAW150M | Num | 8 | 3. | | Time 150 min sample drawn minutes |
| 10 | OGDRAW150S | Num | 8 | 2. | | Time 150 min sample drawn seconds |
| 11 | OGDRAW180M | Num | 8 | 3. | | Time 180 min sample drawn minutes |
| 12 | OGDRAW180S | Num | 8 | 2. | | Time 180 min sample drawn seconds |
| 13 | OGDRAW20M | Num | 8 | 3. | | Time 20 min sample drawn minutes |
| 14 | OGDRAW20S | Num | 8 | 2. | | Time 20 min sample drawn seconds |
| 15 | OGDRAW30M | Num | 8 | 3. | | Time 30 min sample drawn minutes |
| 16 | OGDRAW30S | Num | 8 | 2. | | Time 30 min sample drawn seconds |
| 17 | OGDRAW60M | Num | 8 | 3. | | Time 60 min sample drawn minutes |
| 18 | OGDRAW60S | Num | 8 | 2. | | Time 60 min sample drawn seconds |
| 19 | OGDRAW90M | Num | 8 | 3. | | Time 90 min sample drawn minutes |
| 20 | OGDRAW90S | Num | 8 | 2. | | Time 90 min sample drawn seconds |
| 21 | OGFAST | Num | 8 | 1. | | Fasting finger-stick blood sugar elevated? |
| 22 | OGFSTTIME1 | Num | 8 | TIME5. | | Time of 1st fasting blood sample (-10 min) |
| 23 | OGFSTTIME2 | Num | 8 | TIME5. | | Time of 2nd fasting blood sample (-5 min) |
| 24 | OGGLUEND2 | Num | 8 | 2. | | Time glucose consumption ended seconds |
| 25 | OGPREP | Num | 8 | 1. | | Participant prepared for the OGTT? |
| 26 | OGPROBWHY | Num | 8 | | | Why OGTT "completed with problem" or "not completed"? |
| 27 | DAYSRAND | Num | 8 | | | Days since RISE Randomization |

Data Set Name: riseadult_ogttdata.sas7bdat

| Num | Variable | Type | Len | Label |
|-----|--------------------|------|-----|--------------------------------|
| 1 | RISE_REPOSITORY_ID | Char | 9 | RISE Repository ID |
| 2 | VISIT | Char | 3 | Study Visit |
| 3 | gluc120 | Num | 8 | OGTT Glucose 120 min (mg/dl) |
| 4 | gluc_10 | Num | 8 | OGTT Glucose -10 min (mg/dl) |
| 5 | gluc_05 | Num | 8 | OGTT Glucose -5 min (mg/dl) |
| 6 | gluc010 | Num | 8 | OGTT Glucose 10 min (mg/dl) |
| 7 | gluc020 | Num | 8 | OGTT Glucose 20 min (mg/dl) |
| 8 | gluc030 | Num | 8 | OGTT Glucose 30 min (mg/dl) |
| 9 | gluc060 | Num | 8 | OGTT Glucose 60 min (mg/dl) |
| 10 | gluc090 | Num | 8 | OGTT Glucose 90 min (mg/dl) |
| 11 | gluc150 | Num | 8 | OGTT Glucose 150 min (mg/dl) |
| 12 | gluc180 | Num | 8 | OGTT Glucose 180 min (mg/dl) |
| 13 | ins_10 | Num | 8 | OGTT Insulin -10 min (uU/ml) |
| 14 | ins_05 | Num | 8 | OGTT Insulin -5 min (uU/ml) |
| 15 | ins010 | Num | 8 | OGTT Insulin 10 min (uU/ml) |
| 16 | ins020 | Num | 8 | OGTT Insulin 20 min (uU/ml) |
| 17 | ins030 | Num | 8 | OGTT Insulin 30 min (uU/ml) |
| 18 | ins060 | Num | 8 | OGTT Insulin 60 min (uU/ml) |
| 19 | ins090 | Num | 8 | OGTT Insulin 90 min (uU/ml) |
| 20 | ins120 | Num | 8 | OGTT Insulin 120 min (uU/ml) |
| 21 | ins150 | Num | 8 | OGTT Insulin 150 min (uU/ml) |
| 22 | ins180 | Num | 8 | OGTT Insulin 180 min (uU/ml) |
| 23 | cpep_10 | Num | 8 | OGTT C-peptide -10 min (ng/mL) |
| 24 | cpep_05 | Num | 8 | OGTT C-peptide -5 min (ng/mL) |
| 25 | cpep010 | Num | 8 | OGTT C-peptide 10 min (ng/mL) |
| 26 | cpep020 | Num | 8 | OGTT C-peptide 20 min (ng/mL) |
| 27 | cpep030 | Num | 8 | OGTT C-peptide 30 min (ng/mL) |
| 28 | cpep060 | Num | 8 | OGTT C-peptide 60 min (ng/mL) |
| 29 | cpep090 | Num | 8 | OGTT C-peptide 90 min (ng/mL) |
| 30 | cpep120 | Num | 8 | OGTT C-peptide 120 min (ng/mL) |
| 31 | cpep150 | Num | 8 | OGTT C-peptide 150 min (ng/mL) |
| 32 | cpep180 | Num | 8 | OGTT C-peptide 180 min (ng/mL) |
| 33 | glucagon030 | Num | 8 | OGTT Glucagon 30 min (pM/L) |
| 34 | glucagon060 | Num | 8 | OGTT Glucagon 60 min (pM/L) |
| 35 | glucagon090 | Num | 8 | OGTT Glucagon 90 min (pM/L) |
| 36 | glucagon150 | Num | 8 | OGTT Glucagon 150 min (pM/L) |
| 37 | glucagon180 | Num | 8 | OGTT Glucagon 180 min (pM/L) |

| Num | Variable | Type | Len | Label |
|-----|-------------|------|-----|-------------------------------|
| 38 | glucagon_10 | Num | 8 | OGTT Glucagon -10 min (pM/L) |
| 39 | glucagon_05 | Num | 8 | OGTT Glucagon -5 min (pM/L) |
| 40 | glucagon010 | Num | 8 | OGTT Glucagon 10 min (pM/L) |
| 41 | glucagon020 | Num | 8 | OGTT Glucagon 20 min (pM/L) |
| 42 | glucagon120 | Num | 8 | OGTT Glucagon 120 min (pM/L) |
| 43 | IGI | Num | 8 | IGI, early insulin response |
| 44 | CPGI | Num | 8 | CPGI, Early cpeptide response |

Data Set Name: *riseadult_otherlabdata.sas7bdat*

| Num | Variable | Type | Len | Label |
|-----|--------------------|------|-----|-----------------------|
| 1 | RISE_REPOSITORY_ID | Char | 9 | RISE Repository ID |
| 2 | VISIT | Char | 3 | Study Visit |
| 3 | HbA1c | Num | 8 | HbA1c (%) |
| 4 | LDL | Num | 8 | LDL (mg/dL) |
| 5 | HDL | Num | 8 | HDL (mg/dL) |
| 6 | Chol | Num | 8 | Cholesterol (mg/dL) |
| 7 | Trig | Num | 8 | Triglycerides (mg/dL) |
| 8 | VLDL | Num | 8 | VLDL (mg/dL) |

Data Set Name: riseadult_runend.sas7bdat

| Num | Variable | Type | Len | Format | Label |
|-----|--------------------|------|-----|--------|---|
| 1 | RISE_REPOSITORY_ID | Char | 9 | | RISE Repository ID |
| 2 | VISIT | Char | 3 | | Study Visit |
| 3 | BIRDEF | Num | 8 | 1. | Congenital abnormality or birth defect? |
| 4 | DISABILITY | Num | 8 | 1. | Permanent or severe disability? |
| 5 | HOSPITAL | Num | 8 | 1. | Required or prolonged hospitalization? |
| 6 | OTHMED | Num | 8 | 1. | Other serious medical event? |
| 7 | OVERDOSE | Num | 8 | 1. | Overdose of study medication? |
| 8 | PREG | Num | 8 | 1. | Pregnant? |
| 9 | PREVENT | Num | 8 | 1. | Intervention to prevent an SAE |
| 10 | READHERE | Num | 8 | 1. | Ppt meet adherence criteria? |
| 11 | REDEMONST | Num | 8 | 1. | successfully demonstrate injection? |
| 12 | REDIAMED | Num | 8 | 1. | Ppt used any diabetes medication |
| 13 | REHYPONUM | Num | 8 | 2. | How many episodes of mild hypoglycemia? |
| 14 | REILLEXCL | Num | 8 | 1. | New illnesses exclusionary? |
| 15 | REINJCTADHR | Num | 8 | | Calculated medication adherence |
| 16 | RELOWBS | Num | 8 | 1. | Episode(s) of low blood sugar? |
| 17 | REMEDEXCL | Num | 8 | 1. | Any new meds exclusionary? |
| 18 | REMET | Num | 8 | 1. | Pediatric, ppt on metformin? |
| 19 | REMETADHERE | Num | 8 | 3. | Percent of expected pills taken |
| 20 | REMETDOSE | Num | 8 | 4. | Current metformin dose |
| 21 | REMILDHYP | Num | 8 | 1. | Repeated mild hypoglycemia? |
| 22 | RENEWILL | Num | 8 | 1. | Diagnosed with new illness? |
| 23 | RENEWMED | Num | 8 | 1. | Taking new medications? |
| 24 | REOTHER | Num | 8 | 1. | Other clinically important symptoms? |
| 25 | RERUNINJCT | Num | 8 | 1. | Ppt taken run-in liraglutide placebo? |
| 26 | RERUNMET | Num | 8 | 1. | Ppt taken run-in metforminn? |
| 27 | RESKINRASH | Num | 8 | 1. | Skin rashes? |
| 28 | RESTOMACH | Num | 8 | 1. | Stomach/GI problems? |
| 29 | RESYMP | Num | 8 | 1. | Symptoms of diabetes out of control? |
| 30 | RESYRINGE | Num | 8 | 1. | Number of returned pens |
| 31 | REWEEKS | Num | 8 | 1. | Total weeks of run-in |
| 32 | SEVHYPO | Num | 8 | 1. | Episode of severe hypoglycemia? |
| 33 | THREAT | Num | 8 | 1. | Life-threatening event? |
| 34 | DAYSRAND | Num | 8 | | Days since RISE Randomization |

Data Set Name: riseadult_runstart.sas7bdat

| Num | Variable | Type | Len | Format | Informat | Label |
|-----|--------------------|------|-----|--------|----------|---|
| 1 | RISE_REPOSITORY_ID | Char | 9 | | | RISE Repository ID |
| 2 | VISIT | Char | 3 | | | Study Visit |
| 3 | RSHYPONUM | Char | 2 | \$2. | \$2. | Number of mild hypoglycemia episodes |
| 4 | BIRDEF | Num | 8 | 1. | | pregnancy resulting in abnormally or defect |
| 5 | DISABILITY | Num | 8 | 1. | | Permanent or severe disability? |
| 6 | HOSPITAL | Num | 8 | 1. | | Required or prolonged hospitalization? |
| 7 | OTHMED | Num | 8 | 1. | | Other serious medical event? |
| 8 | OVERDOSE | Num | 8 | 1. | | overdose? |
| 9 | PREG | Num | 8 | 1. | | Pregnant? |
| 10 | PREVENT | Num | 8 | 1. | | Intervention to prevent an SAE? |
| 11 | RSDIAMED | Num | 8 | 1. | | Any diabetes meds since last visit? |
| 12 | RSILLEXCL | Num | 8 | 1. | | New illnesses exclusionary? |
| 13 | RSINJCTDISP | Num | 8 | 1. | | run-in injection placebo dispensed? |
| 14 | RSLOWBS | Num | 8 | 1. | | Episodes of low blood sugar? |
| 15 | RSMEDEXCL | Num | 8 | 1. | | Are new meds exclusionary? |
| 16 | RSMET | Num | 8 | 1. | | Participant on metformin? |
| 17 | RSMETACDISP | Num | 8 | 1. | | Active metformin dispensed? |
| 18 | RSMETDOSE | Num | 8 | 4. | | Current metformin dose |
| 19 | RSMETPLDISP | Num | 8 | 1. | | run-in metformin dispensed? |
| 20 | RSMILDHYP | Num | 8 | 1. | | repeated mild hypoglycemia? |
| 21 | RSNEWILL | Num | 8 | 1. | | Ppt diagnosed with new illness? |
| 22 | RSNEWMED | Num | 8 | 1. | | Participant taking new meds? |
| 23 | RSOTHER | Num | 8 | 1. | | Other clinically important symptoms? |
| 24 | RSSKINRASH | Num | 8 | 1. | | Skin rashes? |
| 25 | RSSTOMACH | Num | 8 | 1. | | Stomach problems? |
| 26 | RSSYMP | Num | 8 | 1. | | Diabetes symptoms out of control? |
| 27 | SEVHYPO | Num | 8 | 1. | | Severe hypoglycemia |
| 28 | THREAT | Num | 8 | 1. | | acute life-threatening event? |
| 29 | DAYSRAND | Num | 8 | | | Days since RISE Randomization |

Data Set Name: riseadult_screen.sas7bdat

| Num | Variable | Type | Len | Format | Label |
|-----|--------------------|------|-----|--------|---|
| 1 | RISE_REPOSITORY_ID | Char | 9 | | RISE Repository ID |
| 2 | VISIT | Char | 3 | | Study Visit |
| 3 | DBP | Num | 8 | 3. | blood pressure diastolic |
| 4 | HEIGHT1 | Num | 8 | 5.1 | Height Measurement 1 |
| 5 | HEIGHT2 | Num | 8 | 5.1 | Height Measurement 2 |
| 6 | HEIGHT3 | Num | 8 | 5.1 | Height Measurement 3 |
| 7 | SBP | Num | 8 | 3. | BP reading |
| 8 | SC2HRTIMEM | Num | 8 | 3. | Time of 2 hour blood sample-minutes |
| 9 | SC2HRTIMES | Num | 8 | 2. | Time of 2 hour blood sample-seconds |
| 10 | SCABLE | Num | 8 | 1. | Ppt willing and able to participate |
| 11 | SCAGEELIG | Num | 8 | 1. | Age 20-65 years if adult or 10-19 years if pediatric? |
| 12 | SCALLERGY | Num | 8 | 1. | Allergies or adverse drug reactions |
| 13 | SCALT | Num | 8 | 5.1 | ALT Value |
| 14 | SCALTELIG | Num | 8 | 1. | ALT Eligible? |
| 15 | SCBEHAV | Num | 8 | 1. | Meet all behavioral eligibility criteria? |
| 16 | SCBMI | Num | 8 | 4.1 | BMI |
| 17 | SCBMI2540 | Num | 8 | 1. | BMI >= 25 kg/m2 and <= 50 kg/m2? |
| 18 | SCBMIPERC | Num | 8 | 4.1 | 85th percentile for age and sex |
| 19 | SCBPELIG | Num | 8 | 1. | Is participant eligible based on blood pressure? |
| 20 | SCBRST | Num | 8 | 1. | Breast Tanner stage |
| 21 | SCCONSENT | Num | 8 | 1. | Were informed consent/assent signed and dated? |
| 22 | SCCREAT | Num | 8 | 3.1 | Serum creatinine value |
| 23 | SCCREATELIG | Num | 8 | 1. | Serum creatinine eligible? |
| 24 | SCDIABET | Num | 8 | 1. | Does this participant have diabetes? |
| 25 | SCDIAMED | Num | 8 | 1. | participant ever used any other diabetes medication? |
| 26 | SCELIG | Num | 8 | 1. | Ppt meets eligibility for run-in |
| 27 | SCEXCLSRX | Num | 8 | 1. | participant taking any exclusionary medications? |
| 28 | SCFAST150 | Num | 8 | 1. | Fasting finger-stick blood sugar >150 adults >200 peds? |
| 29 | SCFASTTIME | Num | 8 | TIME5. | Time of fasting blood sample |
| 30 | SCGLUENDM | Num | 8 | 3. | Time glucose consumption ended (minutes) |
| 31 | SCGLUENDS | Num | 8 | 2. | Time glucose consumption ended (seconds) |
| 32 | SCHGB | Num | 8 | 4.1 | Hemoglobin Value |
| 33 | SCHGBELIG | Num | 8 | 1. | Hemoglobin Eligible? |
| 34 | SCINSUL | Num | 8 | 1. | Has the participant ever used insulin? |
| 35 | SCINSULDUR | Num | 8 | 1. | participant ever used insulin > 1 week? |
| 36 | SCLABELIG | Num | 8 | 1. | Ppt meets lab eligibility? |
| 37 | SCLEAVE | Num | 8 | 1. | Likely leave area within 2 years |

| Num | Variable | Type | Len | Format | Label |
|-----|-------------|------|-----|--------|---|
| 38 | SCMBI8540 | Num | 8 | 1. | BMI >85th percentile and <= 50 kg/m2 |
| 39 | SCMEDCON | Num | 8 | 1. | Participant have any exclusionary medical conditions? |
| 40 | SCMET | Num | 8 | 1. | participant ever used metformin? |
| 41 | SCMETDUR | Num | 8 | | months of metformin |
| 42 | SCOGTTCOMPL | Num | 8 | | The OGTT was: |
| 43 | SCOGTTWHY | Num | 8 | | Why was OGTT not completed/with problem? |
| 44 | SCOSTUDY | Num | 8 | 1. | Participated in another study |
| 45 | SCPOCHBAC | Num | 8 | 4.1 | Screen Local HbA1c value |
| 46 | SCPOCTYPE | Num | 8 | | Type of measurement |
| 47 | SCPOTAS | Num | 8 | 3.1 | Serum potassium value |
| 48 | SCPOTASELIG | Num | 8 | 1. | Serum potassium eligible? |
| 49 | SCPREP | Num | 8 | 1. | Prepared for OGTT? |
| 50 | SCPREPOC | Num | 8 | 4.1 | Pre-Screening local HbA1c Value |
| 51 | SCPROCEED | Num | 8 | 1. | Ppt proceed to run-in? |
| 52 | SCREFER | Num | 8 | | How was the participant referred to the study? |
| 53 | SCSEX | Num | 8 | | Sex |
| 54 | SCT2DDU | Num | 8 | 1. | Duration since diabetes diagnosis <1 year for adults and < 6 months for children? |
| 55 | SCTANNER | Num | 8 | 1. | Tanner stage eligible? |
| 56 | SCTESTVOL | Num | 8 | 2. | Testicular volume |
| 57 | SCTRIG | Num | 8 | 4. | Triglycerides Value |
| 58 | SCTRIGELIG | Num | 8 | 1. | Triglycerides eligible? |
| 59 | SCTSH | Num | 8 | 5.2 | TSH Value |
| 60 | SCTSHELIG | Num | 8 | 1. | TSH eligible? |
| 61 | SCUPT | Num | 8 | | Urine Pregnancy Test |
| 62 | WEIGHT1 | Num | 8 | 5.1 | Weight Measurement 1 |
| 63 | WEIGHT2 | Num | 8 | 5.1 | Weight Measurement 2 |
| 64 | WEIGHT3 | Num | 8 | 5.1 | Weight Measurement 3 |
| 65 | DAYSRAND | Num | 8 | | Days since RISE Randomization |

Data Set Name: riseadult_slpq_adu.sas7bdat

| Num | Variable | Type | Len | Format | Informat | Label |
|-----|--------------------|------|-----|--------|----------|---|
| 1 | RISE_REPOSITORY_ID | Char | 9 | | | RISE Repository ID |
| 2 | VISIT | Char | 3 | | | Study Visit |
| 3 | PSBED | Char | 15 | \$15. | \$15. | PSQI Usual Bed Time (version 1 only) |
| 4 | PSWAKE | Char | 15 | \$15. | \$15. | PSQI Waking Time (version 1 only) |
| 5 | PSBEDWORK | Char | 15 | \$15. | \$15. | PSQI Usual Bed Time Workday/Weekday (v2 only) |
| 6 | PSBEDOFF | Char | 15 | \$15. | \$15. | PSQI Usual Bed Time OffDay/Weekend (v2 only) |
| 7 | PSWAKEOFF | Char | 15 | \$15. | \$15. | PSQI Waking Time OffDay/Weekend (v2 only) |
| 8 | PSOVRQUAL | Char | 6 | \$6. | \$6. | PSQI Overall Sleep Quality |
| 9 | VERSION | Char | 2 | \$2. | \$2. | PSQI Version Number |
| 10 | PSWAKEWRK | Char | 15 | \$15. | \$15. | PSQI Waking Time Workday/Weekday (v2 only) |
| 11 | EMPLOYED | Char | 3 | \$3. | \$3. | Employed? |
| 12 | SHFTWRK | Char | 3 | \$3. | \$3. | Shift Worker? |
| 13 | OVRNGHT | Char | 3 | \$3. | \$3. | Overnight Shifts? |
| 14 | STRT6AM | Char | 3 | \$3. | \$3. | Start work before 6am |
| 15 | ROTATE | Char | 3 | \$3. | \$3. | Rotating night and day shifts |
| 16 | BERLIN | Num | 8 | | | Berlin Risk |
| 17 | CHRNTP | Num | 8 | 5.2 | | Chronotype |
| 18 | EPWORTH | Num | 8 | 4.1 | | Epworth Sum |
| 19 | PSCOMDAYDYS | Num | 8 | 1. | | PSQI Component Daytime Dysfunction |
| 20 | PSCOMDISTUR | Num | 8 | 1. | | PSQI Component Sleep Disturbances |
| 21 | PSCOMDURA | Num | 8 | 2. | | PSQI Component Sleep Duration |
| 22 | PSCOMEFFIC | Num | 8 | 1. | | PSQI Component Habitual Sleep Efficiency |
| 23 | PSCOMLATEN | Num | 8 | 1. | | PSQI Component Sleep Latency |
| 24 | PSCOMMEDS | Num | 8 | 1. | | PSQI Component Use of Sleeping Medication |
| 25 | PSCOMQUAL | Num | 8 | 3.1 | | PSQI Component Subjective Sleep Quality |
| 26 | PSDURA | Num | 8 | 5.2 | | PSQI Habitual Sleep Duration |
| 27 | PSGLOBAL | Num | 8 | 4.1 | | PSQI Global Score |
| 28 | PSLATEN | Num | 8 | 5.1 | | PSQI Sleep Latency |
| 29 | PSSLPEFF | Num | 8 | 6.2 | | PSQI Sleep Efficiency |
| 30 | SLPDEBT | Num | 8 | 6.2 | | Sleep Debt |
| 31 | SOCJETLAG | Num | 8 | 6.2 | | Social Jet Lag |
| 32 | DAYSRAND | Num | 8 | | | Days since RISE Randomization |

Data Set Name: riseadult_smbg.sas7bdat

| Num | Variable | Type | Len | Format | Label |
|-----|--------------------|------|-----|--------|---|
| 1 | RISE_REPOSITORY_ID | Char | 9 | | RISE Repository ID |
| 2 | VISIT | Char | 3 | | Study Visit |
| 3 | SMCOMPL | Num | 8 | 3. | Self-monitoring compliance |
| 4 | SMFBG1112 | Num | 8 | 3. | 9. Weeks 11 & 12[;]a. Mean Fasting Blood G |
| 5 | SMFBG12 | Num | 8 | 3. | 4. Weeks 1 & 2[;]a. Mean Fasting Blood G |
| 6 | SMFBG1314 | Num | 8 | 3. | 10. Weeks 13 & 14[;]a. Mean Fasting Blood G |
| 7 | SMFBG34 | Num | 8 | 3. | 5. Weeks 3 & 4[;]a. Mean Fasting Blood G |
| 8 | SMFBG56 | Num | 8 | 3. | 6. Weeks 5 & 6[;]a. Mean Fasting Blood G |
| 9 | SMFBG78 | Num | 8 | 3. | 7. Weeks 7 & 8[;]a. Mean Fasting Blood G |
| 10 | SMFBG910 | Num | 8 | 3. | 8. Weeks 9 & 10[;]a. Mean Fasting Blood G |
| 11 | SMLOWBS1112 | Num | 8 | 2. | 9. Weeks 11 & 12[;]c. Total number of days |
| 12 | SMLOWBS12 | Num | 8 | 2. | 4. Weeks 1 & 2[;]c. Total number of days |
| 13 | SMLOWBS1314 | Num | 8 | 2. | 10. Weeks 13 & 14[;]c. Total number of days |
| 14 | SMLOWBS34 | Num | 8 | 2. | 5. Weeks 3 & 4[;]c. Total number of days |
| 15 | SMLOWBS56 | Num | 8 | 2. | 6. Weeks 5 & 6[;]c. Total number of days |
| 16 | SMLOWBS78 | Num | 8 | 2. | 7. Weeks 7 & 8[;]c. Total number of days |
| 17 | SMLOWBS910 | Num | 8 | 2. | 8. Weeks 9 & 10[;]c. Total number of days |
| 18 | SMSD1112 | Num | 8 | 2. | 9. Weeks 11 & 12[;]b. Standard Deviation |
| 19 | SMSD12 | Num | 8 | 2. | 4. Weeks 1 & 2[;]b. Standard Deviation |
| 20 | SMSD1314 | Num | 8 | 2. | 10. Weeks 13 & 14[;]b. Standard Deviation |
| 21 | SMSD34 | Num | 8 | 2. | 5. Weeks 3 & 4[;]b. Standard Deviation |
| 22 | SMSD56 | Num | 8 | 2. | 6. Weeks 5 & 6[;]b. Standard Deviation |
| 23 | SMSD78 | Num | 8 | 2. | 7. Weeks 7 & 8[;]b. Standard Deviation |
| 24 | SMSD910 | Num | 8 | 2. | 8. Weeks 9 & 10[;]b. Standard Deviation |
| 25 | DAYSRAND | Num | 8 | | Days since RISE Randomization |

Data Set Name: riseadult_status.sas7bdat

| Num | Variable | Type | Len | Format | Informat | Label |
|-----|--------------------|------|-----|---------|----------|--|
| 1 | RISE_REPOSITORY_ID | Char | 9 | | | RISE Repository ID |
| 2 | VISIT | Char | 3 | | | Study Visit |
| 3 | STOTHSPEC | Char | 15 | \$15. | \$15. | If "Other," specify: |
| 4 | STADDINFO | Char | 100 | \$100. | \$100. | Additional Information: |
| 5 | STLASTVIS | Char | 3 | \$3. | \$3. | Last study visit completed (e.g. M09, M12, M15, etc) |
| 6 | STSTATUS | Num | 8 | BEST12. | F12. | Updated status |
| 7 | STWHY | Num | 8 | BEST12. | F12. | Primary reason for status change |
| 8 | DAYSRAND | Num | 8 | | | Days since RISE Randomization |

Data Set Name: riseadult_unsched.sas7bdat

| Num | Variable | Type | Len | Format | Informat | Label |
|-----|--------------------|------|-----|--------|----------|--|
| 1 | RISE_REPOSITORY_ID | Char | 9 | | | RISE Repository ID |
| 2 | VISIT | Char | 3 | | | Study Visit |
| 3 | UNOTHSPEC | Char | 128 | \$128. | \$128. | If "Other," specify: |
| 4 | UNADDCOM | Char | 200 | \$200. | \$200. | Additional comments about the unscheduled visit: |
| 5 | BIRDEF | Num | 8 | | | Pregnancy resulting in congenital anomaly or birth defect? |
| 6 | DISABILITY | Num | 8 | | | Permanent or severe disability? |
| 7 | HOSPITAL | Num | 8 | | | Required or prolonged hospitalization? |
| 8 | OTHMED | Num | 8 | | | Other serious medical event? |
| 9 | OVERDOSE | Num | 8 | | | Overdose of a Study/ medication? |
| 10 | PREG | Num | 8 | | | Pregnant? |
| 11 | PREVENT | Num | 8 | | | Required intervention to prevent permanent impairment or damage? |
| 12 | SEVHYPO | Num | 8 | | | An episode of hypoglycemia that required help from someone else to bring the blood sugar back to normal? (e.g. due to loss of consciousness, confusion or severe lethargy) |
| 13 | THREAT | Num | 8 | | | Any acute life-threatening event? |
| 14 | UNCBL | Num | 8 | | | Collection of laboratory specimen |
| 15 | UNGLRGDISP | Num | 8 | 1. | | Was insulin glargine dispensed at this visit? |
| 16 | UNGLRGNUM | Num | 8 | 2. | | Number of pens: |
| 17 | UNILL | Num | 8 | | | Interim illness |
| 18 | UNLIRADISP | Num | 8 | 1. | | Was liraglutide dispensed at this visit? |
| 19 | UNLIRANUM | Num | 8 | 1. | | Number of pens: |
| 20 | UNLOCATION | Num | 8 | | | Visit Location |
| 21 | UNMEDDISP | Num | 8 | | | Was medication dispensed in person or by mail? |
| 22 | UNMEDMGT | Num | 8 | | | Study medication or supply management |
| 23 | UNMEDRSN | Num | 8 | | | Select primary reason for study medication or supply management: |
| 24 | UNMETDISP | Num | 8 | 1. | | Was metformin/placebo dispensed at this visit? |
| 25 | UNMETNUM | Num | 8 | 1. | | Number of bottles: |
| 26 | UNOTH | Num | 8 | | | Other |
| 27 | UNSAE | Num | 8 | | | Serious adverse event |
| 28 | UNTEMPINS | Num | 8 | | | Temporary insulin use |
| 29 | DAYSRAND | Num | 8 | | | Days since RISE Randomization |

Data Set Name: riseadult_visit.sas7bdat

| Num | Variable | Type | Len | Format | Informat | Label |
|-----|--------------------|------|-----|--------|----------|--|
| 1 | RISE_REPOSITORY_ID | Char | 9 | | | RISE Repository ID |
| 2 | VISIT | Char | 3 | | | Study Visit |
| 3 | VIOSPEC1 | Char | 15 | \$15. | \$15. | If other, specify (antihypertensives) |
| 4 | VIWGHTSPEC | Char | 2 | \$2. | \$2. | If other, specify (weight loss) |
| 5 | VIOSPEC2 | Char | 15 | \$15. | \$15. | If other, specify (lipid lowering) |
| 6 | VIOSPEC3 | Char | 15 | \$15. | \$15. | If other, specify (diabetes meds) |
| 7 | VIBCOSPEC | Char | 25 | \$25. | \$25. | If other, specify: |
| 8 | VIOTHSPEC | Char | 30 | \$30. | \$30. | If "Other," specify: |
| 9 | BIRDEF | Num | 8 | 1. | | Pregnancy w/ congenital abnormality or birth defect? |
| 10 | DISABILITY | Num | 8 | 1. | | Permanent or severe disability? |
| 11 | GLARG1 | Num | 8 | 1. | | a. Permanently discontinued study medication[:];Glargine |
| 12 | GLARG10 | Num | 8 | 1. | | j. Size of pill is a problem[:];Glargine |
| 13 | GLARG11 | Num | 8 | 1. | | k. Other[:];Glargine |
| 14 | GLARG12 | Num | 8 | 1. | | l. No specific reason given[:];Glargine |
| 15 | GLARG2 | Num | 8 | 1. | | b. Temporarily stopped study medication due to intercurrent illness[:];Glargine |
| 16 | GLARG3 | Num | 8 | 1. | | c. Forgets to take study medication in general[:];Glargine |
| 17 | GLARG4 | Num | 8 | 1. | | d. GI reaction to medication[:];Glargine |
| 18 | GLARG5 | Num | 8 | 1. | | e. Believes medication causes weight gain or other side effect[:];Glargine |
| 19 | GLARG6 | Num | 8 | 1. | | f. Disruption of regular routine or travel[:];Glargine |
| 20 | GLARG7 | Num | 8 | 1. | | g. Depressed mood ot other psychiatric issue[:];Glargine |
| 21 | GLARG8 | Num | 8 | 1. | | h. Lost/misplaced study medication[:];Glargine |
| 22 | GLARG9 | Num | 8 | 1. | | i. Dislikes using needles[:];Glargine |
| 23 | HEIGHT1 | Num | 8 | 5.1 | | Height Measure 1 |
| 24 | HEIGHT2 | Num | 8 | 5.1 | | Height Measure 2 |
| 25 | HEIGHT3 | Num | 8 | 5.1 | | Height Measure 3 |
| 26 | HIP1 | Num | 8 | 5.1 | | Hip circumference 1 |
| 27 | HIP2 | Num | 8 | 5.1 | | Hip circumference 2 |
| 28 | HIP3 | Num | 8 | 5.1 | | Hip circumference 3 |
| 29 | HOSPITAL | Num | 8 | 1. | | Required or prolonged hospitalization? |
| 30 | LIRA1 | Num | 8 | 1. | | a. Permanently discontinued study medication[:];Liraglutide |
| 31 | LIRA10 | Num | 8 | 1. | | j. Size of pill is a problem[:];Liraglutide |
| 32 | LIRA11 | Num | 8 | 1. | | k. Other[:];Liraglutide |
| 33 | LIRA12 | Num | 8 | 1. | | l. No specific reason given[:];Liraglutide |
| 34 | LIRA2 | Num | 8 | 1. | | b. Temporarily stopped study medication due to intercurrent illness[:];Liraglutide |
| 35 | LIRA3 | Num | 8 | 1. | | c. Forgets to take study medication in general[:];Liraglutide |

| Num | Variable | Type | Len | Format | Informat | Label |
|-----|------------|------|-----|--------|----------|--|
| 36 | LIRA4 | Num | 8 | 1. | | d. GI reaction to medication[;]Liraglutide |
| 37 | LIRA5 | Num | 8 | 1. | | e. Believes medication causes weight gain or other side effect[;]Liraglutide |
| 38 | LIRA6 | Num | 8 | 1. | | f. Disruption of regular routine or travel[;]Liraglutide |
| 39 | LIRA7 | Num | 8 | 1. | | g. Depressed mood ot other psychiatric issue[;]Liraglutide |
| 40 | LIRA8 | Num | 8 | 1. | | h. Lost/misplaced study medication[;]Liraglutide |
| 41 | LIRA9 | Num | 8 | 1. | | i. Dislikes using needles[;]Liraglutide |
| 42 | METFORM1 | Num | 8 | 1. | | a. Permanently discontinued study medication[;] Metformin |
| 43 | METFORM10 | Num | 8 | 1. | | j. Size of pill is a problem[;] Metformin |
| 44 | METFORM11 | Num | 8 | 1. | | k. Other[;] Metformin |
| 45 | METFORM12 | Num | 8 | 1. | | l. No specific reason given[;] Metformin |
| 46 | METFORM2 | Num | 8 | 1. | | b. Temporarily stopped study medication due to intercurrent illness[;] Metformin |
| 47 | METFORM3 | Num | 8 | 1. | | c. Forgets to take study medication in general[;] Metformin |
| 48 | METFORM4 | Num | 8 | 1. | | d. GI reaction to medication[;] Metformin |
| 49 | METFORM5 | Num | 8 | 1. | | e. Believes medication causes weight gain or other side effect[;] Metformin |
| 50 | METFORM6 | Num | 8 | 1. | | f. Disruption of regular routine or travel[;] Metformin |
| 51 | METFORM7 | Num | 8 | 1. | | g. Depressed mood ot other psychiatric issue[;] Metformin |
| 52 | METFORM8 | Num | 8 | 1. | | h. Lost/misplaced study medication[;] Metformin |
| 53 | METFORM9 | Num | 8 | 1. | | i. Dislikes using needles[;] Metformin |
| 54 | OVERDOSE | Num | 8 | 1. | | Overdose of study medication? |
| 55 | OVERNIGHT | Num | 8 | 1. | | Other serious medical event? |
| 56 | PREG | Num | 8 | 1. | | Pregnant? |
| 57 | PREVENT | Num | 8 | 1. | | Prevent a serious adverse event? |
| 58 | SEVHYPO | Num | 8 | 1. | | Episode of severe hypoglycemia |
| 59 | THREAT | Num | 8 | 1. | | Any acute life-threatening event? |
| 60 | VIACE | Num | 8 | 1. | | ACE inhibitor |
| 61 | VIANTIHYP | Num | 8 | 1. | | Antihypertensives? |
| 62 | VIARB | Num | 8 | 1. | | ARB |
| 63 | VIBETA | Num | 8 | 1. | | Beta Blocker |
| 64 | VICNTRCPT | Num | 8 | 1. | | Do you use contraception? |
| 65 | VIDIABP | Num | 8 | 3. | | Blood Pressure Reading Diastolic |
| 66 | VIDIAMED | Num | 8 | 1. | | Diabetes medication |
| 67 | VIDIURET | Num | 8 | 1. | | Diuretic |
| 68 | VIDPP4 | Num | 8 | 1. | | Metformin |
| 69 | VIEXENLIRA | Num | 8 | 1. | | Exenatide or liraglutide |
| 70 | VIFIBRATE | Num | 8 | 1. | | Fibrate |
| 71 | VIGLRADHER | Num | 8 | 1. | | Ppt supposed to take glargine? |
| 72 | VIGLRDOSE | Num | 8 | 3. | | Current dose of glargine |

| Num | Variable | Type | Len | Format | Informat | Label |
|-----|--------------|------|-----|--------|----------|--|
| 73 | VIGLRDOSENUM | Num | 8 | 3. | | Variable removed from form |
| 74 | VIGLRGDISP | Num | 8 | 1. | | variable removed from form |
| 75 | VIGLRGNUM | Num | 8 | 1. | | variable removed from form |
| 76 | VIGLRPERC | Num | 8 | | | Percent of expected insulin glargine taken |
| 77 | VIGLRRET | Num | 8 | 1. | | Ppt return glargine pens? |
| 78 | VIGLRSELF | Num | 8 | | | Glargine self report percentage |
| 79 | VIHORMCON | Num | 8 | 1. | | Hormonal contraception |
| 80 | VIHYPONUM | Num | 8 | 2. | | Number episodes of mild hypoglycemia |
| 81 | VIINHALE | Num | 8 | 1. | | Inhaled steroids |
| 82 | VIINJECT | Num | 8 | 1. | | Injection steroids |
| 83 | VIINSUL | Num | 8 | 1. | | Insulin |
| 84 | VILIPLOW | Num | 8 | 1. | | Lipid lowering medications? |
| 85 | VILIRADHER | Num | 8 | 1. | | Ppt supposed to take liraglutide? |
| 86 | VILIRADISP | Num | 8 | 1. | | Liraglutide dispensed at this visit? |
| 87 | VILIRANUM | Num | 8 | 1. | | Number of pens (liraglutide) |
| 88 | VILIRARET | Num | 8 | 1. | | Ppt return liraglutide pens? |
| 89 | VILIRASELF | Num | 8 | | | Liraglutide self report percentage |
| 90 | VILIRDOSE | Num | 8 | | | Current dose of liraglutide |
| 91 | VILIRPERC | Num | 8 | | | Percent of expected liraglutide taken |
| 92 | VILOWBS | Num | 8 | 1. | | Episode(s) of low blood sugar? |
| 93 | VIMEDS | Num | 8 | 1. | | Taken any non-study meds? |
| 94 | VIMET | Num | 8 | 1. | | Metformin |
| 95 | VIMETADHER | Num | 8 | 1. | | Ppt supposed to take metformin? |
| 96 | VIMETDISP | Num | 8 | 1. | | metformin/placebo dispensed at this visit? |
| 97 | VIMETDOSE | Num | 8 | | | Current dose of metformin |
| 98 | VIMETNUM | Num | 8 | 1. | | Number of bottles (metformin) |
| 99 | VIMETPERC | Num | 8 | 3. | | Percent of expected pills taken |
| 100 | VIMETRET | Num | 8 | 1. | | Ppt return metformin bottles |
| 101 | VIMETSELF | Num | 8 | | | Metformin self report percentage |
| 102 | VIMILDHYP | Num | 8 | 1. | | Repeated mild hypoglycemia? |
| 103 | VINIACIN | Num | 8 | 1. | | Niacin |
| 104 | VINOBABY | Num | 8 | | | What are you doing to avoid having a baby? |
| 105 | VIORALST | Num | 8 | 1. | | Oral steroids |
| 106 | VIOSTDAYS | Num | 8 | 2. | | Total days oral steroids used since last visit |
| 107 | VIOTH1 | Num | 8 | 1. | | Other (antihypertensive) |
| 108 | VIOTH2 | Num | 8 | 1. | | Other (lipid lowering) |
| 109 | VIOTH3 | Num | 8 | 1. | | Other (diabetes meds) |
| 110 | VIOTHER | Num | 8 | 1. | | Other clinically important symptoms |
| 111 | VIPREGTEST | Num | 8 | | | Result of pregnancy test for females |

| Num | Variable | Type | Len | Format | Informat | Label |
|-----|------------|------|-----|--------|----------|-------------------------------------|
| 112 | VIPSYCHO | Num | 8 | 1. | | Atypical psychotropics |
| 113 | WISEQUEST | Num | 8 | 1. | | Bile acid sequestrant |
| 114 | VISKINRASH | Num | 8 | 1. | | Skin rashes? |
| 115 | VISTATIN | Num | 8 | 1. | | Statin |
| 116 | VISTER | Num | 8 | 1. | | Steroids? |
| 117 | VISTIM | Num | 8 | 1. | | Stimulants |
| 118 | VISTOMACH | Num | 8 | 1. | | Somach/GI problems? |
| 119 | VISULF | Num | 8 | 1. | | Sulfonylurea |
| 120 | VISYMP | Num | 8 | 1. | | Symptoms of diabetes out of control |
| 121 | VISYSBP | Num | 8 | 3. | | Blood Pressure Reading Systolic |
| 122 | VITHIAZ | Num | 8 | 1. | | Thiazolidinedione |
| 123 | VIWGHTLOSS | Num | 8 | | | Weight loss treatments? |
| 124 | WAIST1 | Num | 8 | 5.1 | | Waist Circumference 1 |
| 125 | WAIST2 | Num | 8 | 5.1 | | Waist circumference 2 |
| 126 | WAIST3 | Num | 8 | 5.1 | | Waist circumference 3 |
| 127 | WEIGHT1 | Num | 8 | 5.1 | | Weight Measure 1 |
| 128 | WEIGHT2 | Num | 8 | 5.1 | | Weight Measure 2 |
| 129 | WEIGHT3 | Num | 8 | 5.1 | | Weight Measure 3 |
| 130 | DAYSRAND | Num | 8 | | | Days since RISE Randomization |