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Susan M Rogers
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Data Integrity Check for the Diabetes Prevention Project (DPP) 2008 Full Scale Release

As a partial check of the integrity of the 2008 Full Scale Release of the Diabetes Prevention Program (DPP) data archived in the NIDDK data repository, a series of tabulations was performed to verify that published results from the DPP study can be reproduced using the archived datasets. Several analyses were performed to duplicate results published by the DPP Research Group in the following publication:

> Impact of Intensive Lifestyle and Metformin Therapy on Cardiovascular Disease Risk Factors in the Diabetes Prevention Program (2005) *Diabetes Care* 28:888-894

The full text of the selected articles can be found in Attachment 1. STATA (v10) code for our data integrity checks is included in Attachment 2.

Our replicated analyses produced similar results to the published tabulations for most of the measurements although mean changes in some metabolic measures over time varied slightly from the published results. Some discrepancies between the published and replicated analyses arose since only study clinic sites whose IRBs approved the distribution of their data to the NIDDK repository are included in the archived data; other discrepancies may be related to differences in sample sizes between the original data file and the repository data.

The 2008 Full-Scale Data Release: Baseline and Follow-up Data

The DPP Research Group reports results for 3,665 participants in the 2008 Full Scale Data Release who were randomly assigned to one of four treatment arms aimed at preventing type 2 diabetes in high-risk adults: metformin (N=1,027), troglitazone (N=584), intensive lifestyle (N=1,024), or placebo (N=1030). Eligibility criteria for the study included: age 25 years and older, a body mass index of 24 kg/m^2 or higher (22+ if Asian American), a fasting plasma glucose (FPG) level of 95-125 mg/dl (<=125 for American Indians), and a 2-hour plasma glucose concentration of 140-199 mg/dl (see 2008 Data Release Documentation for full details). Eligible participants were identified through a multi-step screening and recruitment process. Enrollment began in 1996 and participants were followed through 2001. Follow-up assessments (quarterly, semi-annual, annual, etc) included various physical measurements, medical history updates, questionnaire administration, medication adherence, and medical testing according to a standard protocol.

In de-identifying the data, all personal identifiers including all dates were removed from the DPP archive. Variables that could possibly identify a particular individual were grouped, e.g., race/ethnicity was recoded into 4 groups (Caucasian, African American, Hispanic and Other), age at baseline was recoded in 5-year groupings with truncation of those <40 and 65+, fasting glucose levels less than 100 at baseline appear as 99, and baseline BMI is provided in two alternative groupings (2 kg/m^2 with truncation of those ≤ 26 kg/m^2 and those ≥ 42 kg/m^2 and tertiles of <30, 30 to <35, and ≥ 35 kg/m^2. Only research data are included in the released

dataset (screening and post-randomization visits, clinic visits, lifestyle visits, laboratory data). Non-research data and adverse event data are not included.

Data Forms

The NIDDK data repository includes 37 data files – 31 files of data collected on standard forms ('form' files) and 6 files of data not collected on forms ('nonform' files) that include laboratory data, nutrition, quality of well-being, CT-scan, a summary of event variables for diabetes, and a baseline file (treatment assignment, baseline age and BMI group, sex, and race/ethnicity). Several variables are common to all datasets and can be used to link multiple files or to match specific visits across multiple forms. These include RELEASE_ID (unique subject ID), VISIT (baseline, screening, annual visits, interim unscheduled visit, etc), and DAYSRAND (number of days between a visit and randomization). For this verification exercise, data from 4 of the 37 files were accessed.

All form files are named with the prefix DPP_REL and either a S (screening form), F (follow-up form), TR (form for participants randomized to troglitazone), Q (questionnaires), L (lifestyle form), E (events form, e.g. pregnancy), or R (report, e.g. CHD risk status) suffix. One dataset exists for each DPP form and corresponding SAS dataset. Variables and measurement times for all non-form files, e.g., LAB, Nutrient Data, CT Scan Data, Quality of Well Being Data, Baseline Data, and Events Data, are provided in the Data Release Documentation (pages 16-26).

The Diabetes Prevention Program Research Group (2005) Impact of Intensive Lifestyle and Metformin Therapy on Cardiovascular Disease Risk Factors in the Diabetes Prevention Program. *Diabetes Care* 28(4):888-894.

The purpose of this manuscript (see Attachment 1) is to assess the prevalence of cardiovascular disease (CVD) and its risk factors among DPP participants (assigned to the intensive lifestyle, metformin, or placebo treatment) and to compare the effects of the intensive lifestyle intervention and metformin therapy with that of the placebo on CVD events. Of the 3,234 DPP participants randomized to either the lifestyle, metformin, or placebo treatment groups that are included in this manuscript, the NIDDK repository includes data on 3,081. A copy of the manuscript is included in Attachment 1. STATA 10 programming code to replicate Table 2 and Figure 2 in the published manuscript is shown in Attachment 2.

A set of tabulations was performed to replicate the results published in Table 2 of the manuscript. Table 2 illustrates the mean baseline blood pressure and changes in mean blood pressure by treatment group (regardless of pharmacologic therapy) over time, i.e., change from baseline to year 1, baseline to year 2, etc. Blood pressure measurements were recorded after being seated for 5 minutes and then repeated 30 seconds later after cuff deflation; the mean of these two measurements was used for analysis. Means were calculated by experimental condition and by year of study visit.

A comparison of the published and tabulated results is shown in **TABLE D**. The average blood pressure measurement at each time period (baseline and years 1 to 3) was calculated as the average of the 5-min and 30-seconds measurements. Mean blood pressure change at year 1 was calculated as the average difference in the mean blood pressure reading at year 1 compared to the

mean baseline measurement. Similar calculations were tabulated to assess change at years 2 and 3. Estimates from the data repository are reasonably close to the published estimates for the *baseline* systolic and diastolic blood pressure measurements and several similar trends are noted from the published and replicated results. In both the published and replicated analyses, the greatest declines in mean blood pressure readings occurred for those assigned to the intensive lifestyle treatment. Participants in the metformin group experienced similar declines in years 1 and 2, with substantially less change in year 3. Participants assigned to the placebo experienced a larger difference in year 1, with similar but smaller declines in mean blood pressure in years 2 and 3.

The reduction in blood pressure across all treatment groups over the three years is observed in the replicated results, although differences in the magnitude of the change are evident between the replicated and published results. The largest difference, change in mean systolic blood pressure at year 3 in the lifestyle group (-3.27±0.5 in the published ms and -2.68±0.6 in the replicated results), could be due to a slightly higher mean blood pressure at baseline tabulated in the replicated results, as well as to differences in year 3 measurements. Sample Ns were not included in the published manuscript so it is not possible to compare changes in the size of the cohort by treatment over time.

An alternate estimation of change in mean blood pressure over time is shown at the bottom of TABLE D. This estimate subtracts the mean blood pressure value at each year from the mean value at baseline (see *Difference*) for each systolic and diastolic measurement. Again, while the results are similar to the published figures in Table 2 of the manuscript, the published mean change estimates are slightly higher in the placebo group and lower in the metformin group than in the replicated results.

NIDDK repository variables used to replicate Table 2.

Table 2 Variable	**NIDDK variable used in replication**
Treatment assignment	DPP_REL.Basedata, assign
Blood pressure, baseline	DPP_REL.S03, sosbp1, sosbp2, sosbpa,
	sodbp1, sodbp2, sodbpa
Blood pressure, Years 1-3	DPP_REL.F02, apsbp1, apsbp2, apdbp1,
	apdbp2
Visit	DPP_REL.F02, visit [BAS, Y01,Y02, Y03]

Figure 2 in the published manuscript graphs mean triglyceride levels (Fig 2A), mean HDL cholesterol levels (Fig 2B), and the percent of participants with LDL phenotype B (Fig 2C) by treatment assignment and year. The replicated results are shown in **FIGURES 1A-1C**. The raw data are not provided for Figure 2 in the manuscript, so it is not possible to precisely match our repository estimates (means ± SE by treatment are shown in **TABLE E**) to the published data. Consequently, *p*-values are not presented in the replicated results. We note, however, that the bar graphs presented in our replicated results appear similar to the published manuscript and that results derived from the repository data are consistent with text provided in the Results section of the *Diabetes Care* article (Results, paragraph 4, p890-891). Clearly, mean triglyceride levels are highest in each of the treatment groups at baseline with substantial declines in Years 1 to 3 in the lifestyle group. Similarly, mean HDL cholesterol levels appear higher overall in the lifestyle and

metformin groups with slight increases in Year 1 returning to near baseline levels in Years 2 and 3. Contrary to the published graph (Fig 2B) the mean HDL cholesterol levels in the placebo group in the replicated results decline to levels slightly below baseline in years 2 and 3, and mean values for the metformin group are higher in year 3 than in year 2. The mean percentage of participants with LDL phenotype B appears similar in the replicated and published results. Mean percentages are slightly higher in the placebo group with the lowest levels in years 1 to 3 in the lifestyle group.

NIDDK variables used in replication of Figure 2.

Figure 2 Variable	**NIDDK variable used in replication**
Treatment assignment	DPP_REL.Basedata, assign
Triglycerides	DPP_REL.LAB, trig [visit==BAS,Y01,Y02, Y03]
HDL cholesterol	DPP_REL.LAB, chdl [visit==BAS,Y01,Y02, Y03]
LDL phenotype B	DPP_REL.LAB, ldlz [visit==BAS,Y01,Y02, Y03]

TABLE D. Comparison of changes in blood pressure by treatment group as reported in *Diabetes Care* 28(4):890, 2005 with tabulations calculated from the 2008 DPP Full Scale Data Release in NIDDK repository

Table 2. Blood pressure by treatment group regardless of pharmacologic therapy

Original published table [a]

Blood pressure (mmHg)	Placebo		Metformin		Intensive lifestyle	
	Systolic	Diastolic	Systolic	Diastolic	Systolic	Diastolic
Baseline (means ± SD)	123.5 ± 14.4	78.0 ± 9.2	124.0 ± 14.9	78.2 ± 9.5	123.7 ± 14.8	78.6 ± 9.2
Change at year 1	-0.90 ± 0.4	-0.89 ± 0.2	-0.91 ± 0.4	-1.26 ± 0.2	-3.4 ± 0.4	-3.6 ± 0.2
Change at year 2	-0.52 ± 0.4	-1.07 ± 0.2	-0.94 ± 0.4	-1.06 ± 0.2	-3.4± 0.4	-3.33 ± 0.2
Change at year 3	-0.57 ± 0.5	-1.88 ± 0.3	-0.29 ± 0.5	-1.59 ± 0.3	-3.27 ± 0.5	-3.82 ± 0.3

Data are means ± **SE** unless otherwise noted.

Calculations from NIDDK repository [b]

Blood pressure [c] *(mmHg)*	*Placebo*		*Metformin*		*Intensive lifestyle*	
	Systolic	*Diastolic*	*Systolic*	*Diastolic*	*Systolic*	*Diastolic*
Baseline (means ± SD)	*123.8 ± 14.4*	*78.2 ± 9.2*	*124.45 ± 14.9*	*78.5 ± 9.5*	*124.15 ± 14.8*	*78.8 ± 9.2*
Change at year 1	*-0.82 ± 0.4*	*-0.78 ± 0.3*	*-1.12 ± 0.4*	*-1.25 ± 0.3*	*-3.3 ± 0.4*	*-3.7 ± 0.3*
Change at year 2	*-0.42 ± 0.4*	*-0.98 ± 0.3*	*-1.15 ± 0.4*	*-1.12 ± 0.3*	*-3.3± 0.4*	*-3.4 ± 0.3*
Change at year 3	*-0.43 ± 0.6*	*-1.84 ± 0.4*	*-0.69 ± 0.6*	*-1.56 ± 0.4*	*-2.68 ± 0.6*	*-3.77 ± 0.4*

[a] From: The Diabetes Prevention Program Research Group. Impact of intensive lifestyle and metformin therapy on cardiovascular disease risk factors in the Diabetes Prevention Program, *Diabetes Care* 28(4):888-894, 2005. Tabulations based on 3,234 baseline observations.

[b] Calculations derived from 2008 DPP Full Scale Data Release: DPP_REL.basedata, DPP_REL.F02, DPP_REL.S03. Tabulations based on 3,081 randomized observations (584 participants randomized to the troglitazone arm of the study in the NIDDK repository were excluded from these tabulations). An additional 153 participants (15 men and 138 women) that were included in the published manuscript were excluded from the archive dataset.

[c] Blood pressure calculated as the average of 2 blood pressure measurements: seated arm blood pressure after sitting 5 minutes and after waiting 30 seconds. Change in blood pressure at years 1-3 calculated as mean difference in measurement between each year and baseline (see Attachment 2, STATA output, variables chng1s-chng3s, chng1d-chng3d).

Alternate calculation assessing difference in mean readings between years 1-3 and mean at baseline

Sample sizes and mean blood pressure values based on calculations from NIDDK repository

Mean Blood presssure: systolic (mmHg)

	N	*Mean*	*S.E.*	***Difference***
Placebo				
Baseline	*(1030)*	*123.83*	*14.4*	
Year 1	*(972)*	*123.04*	*14.8*	-0.79
Year 2	*(962)*	*123.49*	*14.5*	-0.34
Year 3	*(622)*	*123.27*	*14.1*	-0.56
Metformin				
Baseline	*(1027)*	*124.45*	*14.9*	
Year 1	*(971)*	*123.4*	*14.6*	-1.05
Year 2	*(960)*	*123.17*	*14.4*	-1.28
Year 3	*(599)*	*124.17*	*14.3*	-0.28
Intensive lifestyle				
Baseline	*(1024)*	*124.15*	*14.8*	
Year 1	*(972)*	*120.73*	*15.3*	-3.42
Year 2	*(946)*	*120.64*	*14.7*	-3.51
Year 3	*(602)*	*120.44*	*14.6*	-3.71

Mean Blood presssure: diastolic (mmHg)

	N	*Mean*	*S.E.*	***Difference***
Placebo				
Baseline	*(1030)*	*78.2*	*9.2*	
Year 1	*(972)*	*77.37*	*9.5*	-0.83
Year 2	*(962)*	*77.23*	*9*	-0.97
Year 3	*(622)*	*76.56*	*8.9*	-1.64
Metformin				
Baseline	*(1027)*	*78.5*	*9.5*	
Year 1	*(971)*	*77.07*	*9.1*	-1.43
Year 2	*(960)*	*77.21*	*9.3*	-1.29
Year 3	*(599)*	*77.05*	*9.4*	-1.45
Intensive lifestyle				
Baseline	*(1024)*	*78.8*	*9.2*	
Year 1	*(972)*	*74.95*	*9.2*	-3.85
Year 2	*(946)*	*75.2*	*9.1*	-3.6
Year 3	*(602)*	*75.04*	*9.5*	-3.76

Difference *calculated as the difference between yearly mean (Years 1, 2, and 3) and baseline mean*

Note*: Sample Ns (noted in parentheses) are not provided in the published table.*

TABLE E. Tabulation of mean lipid levels by treatment assignment and year as reported in Diabetes Care 28(4):891, 2005 with data from the 2008 DPP Full Scale Data Release in NIDDK repository

Tabulations for Published Figure 2. Mean lipid levels by treatement assignment and year (Data shown in Figures 1a to 1c)

2A. Mean triglyceride levels

Treatment assignment	*Baseline*	*Year 1*	*Year 2*	*Year 3*
Placebo	*1.88 ± 1.04*	*1.78 ± 1.07*	*1.77 ± 1.04*	*1.71 ± 0.93*
Metformin	*1.78 ± 1.01*	*1.73 ± 1.05*	*1.70 ± 1.00*	*1.75 ± 1.03*
Lifestyle	*1.83 ± 1.09*	*1.54 ± 0.93*	*1.58 ± 0.95*	*1.56 ± 0.92*

2B. Mean HDL cholesterol levels

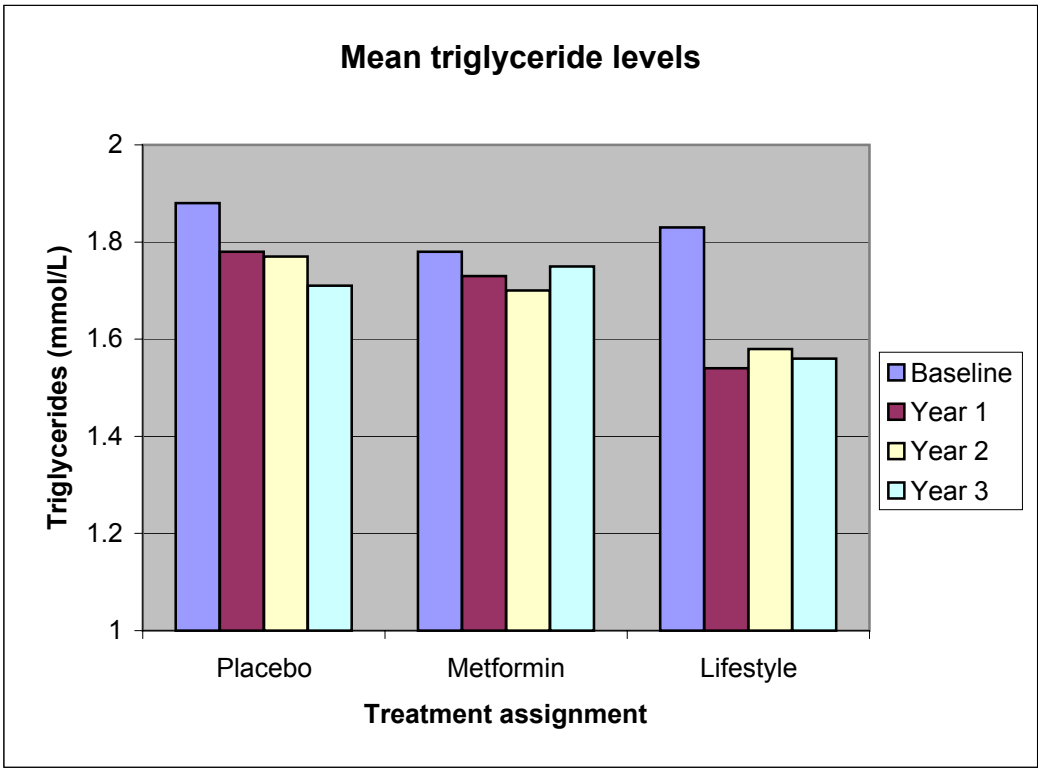
Treatment assignment	*Baseline*	*Year 1*	*Year 2*	*Year 3*
Placebo	*1.16 ± 0.30*	*1.16 ± 0.29*	*1.14 ± 0.29*	*1.14 ± 0.29*
Metformin	*1.19 ± 0.30*	*1.21 ± 0.31*	*1.19 ± 0.31*	*1.20 ± 0.32*
Lifestyle	*1.19 ± 0.32*	*1.23 ± 0.33*	*1.21 ± 0.33*	*1.19 ± 0.32*

2C. Percent with LDL phenotype B
LDL phenotype B is defined as LDL particle size < .263 Rf

Treatment assignment	*Baseline*	*Year 1*	*Year 2*	*Year 3*
Placebo	*34.3%*	*32.4%*	*33.8%*	*33.5%*
Metformin	*30.0%*	*30.3%*	*33.0%*	*28.4%*
Lifestyle	*29.5%*	*21.8%*	*25.1%*	*24.9%*

Note: *Calculated from 2008 DPP Full Scale Data Release, DPP_REL.Basedata, DPP_REL.LAB. The published article does not include the raw data values for Figure 2.*
Data are means ± SD unless otherwise noted.

FIGURE 1A. Tabulation of mean triglyceride levels by treatment assignment and year from the 2008 DPP Full Scale Data Release in NIDDK repository

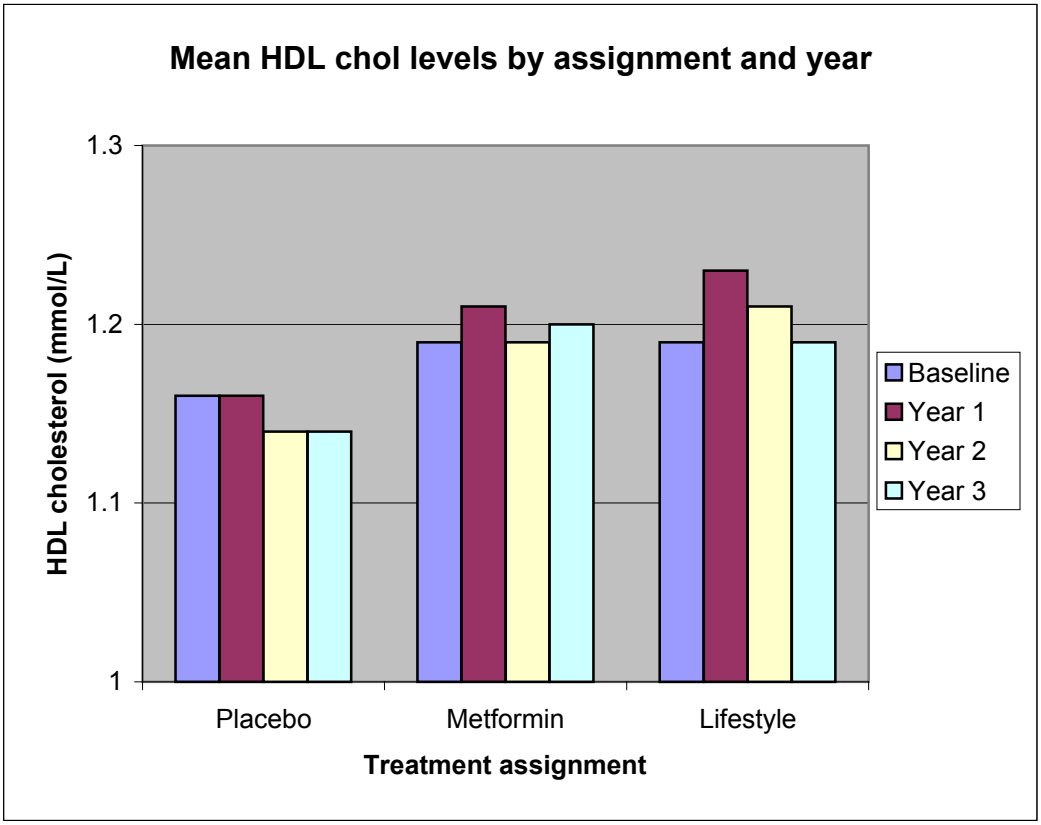


Note: Calculated from 2008 DPP Full Scale Data Release, DPP_REL.Basedata, DPP_REL.LAB. Original table published in: Diabetes Prevention Program Research Group, Impact of Intensive lifestyle and Metformin Therapy on Cardiovascular Disease Risk Factors in the Diabetes Prevention Program. *Diabetes Care* 28:888-894, 2005 (Figure 2)

DATA (means ± SD presented in TABLE E)

	Baseline	Y1	Y2	Y3
Placebo	1.88	1.78	1.77	1.71
Metformin	1.78	1.73	1.7	1.75
Lifestyle	1.83	1.54	1.58	1.56

FIGURE 1B. Tabulation of mean HDL cholesterol levels by treatment assignment and year calculated from the 2008 DPP Full Scale Data Release in NIDDK repository

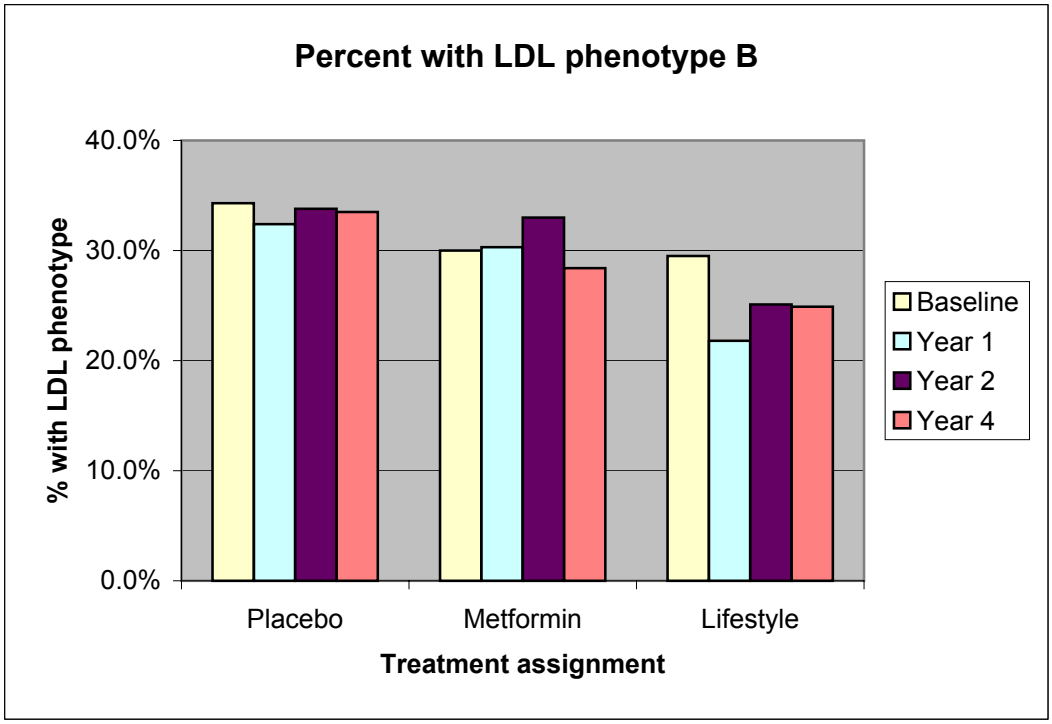


Note: Calculated from 2008 DPP Full Scale Data Release, DPP_REL.Basedata, DPP_REL.LAB. Original table published in: Diabetes Prevention Program Research Group, Impact of Intensive lifestyle and Metformin Therapy on Cardiovascular Disease Risk Factors in the Diabetes Prevention Program. *Diabetes Care* 28:888-894, 2005 (Figure 2)

DATA (means ± SD presented in TABLE E)

	Baseline	Y1	Y2	Y3
Placebo	1.16	1.16	1.14	1.14
Metformin	1.19	1.21	1.19	1.2
Lifestyle	1.19	1.23	1.21	1.19

FIGURE 1C. Tabulation of the percent of participants with LDL phenotype B by treatment assignment and year calculated from the 2008 DPP Full Scale Data Release in NIDDK repository



Note: Calculated from 2008 DPP Full Scale Data Release, DPP_REL.Basedata, DPP_REL.LAB. Original table published in: Diabetes Prevention Program Research Group, Impact of Intensive lifestyle and Metformin Therapy on Cardiovascular Disease Risk Factors in the Diabetes Prevention Program. *Diabetes Care* 28:888-894, 2005 (Figure 2)

DATA (means ± SD presented in TABLE E)

	Baseline	Y1	Y2	Y3
Placebo	34.3%	32.4%	33.8%	33.5%
Metformin	30.0%	30.3%	33.0%	28.4%
Lifestyle	29.5%	21.8%	25.1%	24.9%

ATTACHMENT 1

The full text of the article referenced will be provided to approved data requestors along with the archived data.

The Diabetes Prevention Program Research Group (2005) Impact of Intensive Lifestyle and Metformin Therapy on Cardiovascular Disease Risk Factors in the Diabetes Prevention Program. *Diabetes Care* 28(4):888-894.

NOTE. Single copies of articles published in scientific journals are included with this documentation. These articles are copyrighted, and the repository has purchased ONE reprint from their publisher to include with this documentation. If additional copies are made of these copyrighted articles, users are advised that payment is due to the copyright holder (typically the publisher of the scientific journal).

ATTACHMENT 2

STATA/SE10 Code for Tabulations of Treatment Assignment on Cardiovascular Disease Risk Factors from the DPP Dataset in the NIDDK Repository

[*Diabetes Care* 28: 888-894, 2005; Table 2, Figure 2]

```
-------------------------------------------------------------------------------
      log:  C:\DPP\analyses\DC2005\Attach3.log
  log type:  text
 opened on:  15 May 2008, 09:48:56
***DPP_F02.2 for blood pressure readings at years 1-3
** take average of BP Readings 1&2 for each yearly visit
/* get file mydata\f02bp.dta   list release_id visit apsbp1 apsbp2 in 1/4
SAVE FILE c:\DPP\Analyses\DC2005\F02BP_123.dta */


tab visit
tab apsbp1 if visit=="Y01"
gen sbp1_1=apsbp1 if visit=="Y01"
label var sbp1_1 "systolic BP1 Y01"
tab sbp1_1
tab apsbp2 if visit=="Y01"
gen sbp2_1=apsbp2 if visit=="Y01"
label var sbp2_1 "systolic BP2 Y01"
tab sbp2_1
gen avsbp_1=(sbp1_1+sbp2_1)/2
label var avsbp_1 "av systolic BP Y01"

tab apdbp1 if visit=="Y01"
gen dbp1_1=apdbp1 if visit=="Y01"
label var dbp1_1 "diastolic BP1 Y01"
tab dbp1_1
tab apdbp2 if visit=="Y01"
gen dbp2_1=apdbp2 if visit=="Y01"
label var dbp2_1 "diastolic BP2 Y01"
tab dbp2_1
gen avdbp_1=(dbp1_1+dbp2_1)/2
label var avdbp_1 "av diastolic BP Y01"

summarize avsbp_1
summarize avdbp_1
list release_id visit sbp1_1 sbp2_1 dbp1_1 dbp2_1 avsbp_1 avdbp_1 in 1/10

keep if visit=="Y01"
save c:\DPP\Analyses\DC2005\F02BP_1.dta

**get mydata\f02bp.dta
*Y02 visit, BP readings
tab apsbp1 if visit=="Y02"
gen sbp1_2=apsbp1 if visit=="Y02"
label var sbp1_2 "systolic BP1 Y02"
tab sbp1_2
tab apsbp2 if visit=="Y02"
gen sbp2_2=apsbp2 if visit=="Y02"
label var sbp2_2 "systolic BP2 Y02"
tab sbp2_2
gen avsbp_2=(sbp1_2+sbp2_2)/2
label var avsbp_2 "av systolic BP Y02"

tab apdbp1 if visit=="Y02"
gen dbp1_2=apdbp1 if visit=="Y02"
label var dbp1_2 "diastolic BP1 Y02"
tab dbp1_2
tab apdbp2 if visit=="Y02"
gen dbp2_2=apdbp2 if visit=="Y02"
label var dbp2_2 "diastolic BP2 Y02"
tab dbp2_2
gen avdbp_2=(dbp1_2+dbp2_2)/2
label var avdbp_2 "av diastolic BP Y02"
```

```
summarize avsbp_2
summarize avdbp_2
list release_id visit sbp1_2 sbp2_2 dbp1_2 dbp2_2 avsbp_2 avdbp_2 in 1/10
keep if visit=="Y02"
list release_id visit sbp1_2 sbp2_2 dbp1_2 dbp2_2 avsbp_2 avdbp_2 in 1/10
save c:\DPP\Analyses\DC2005\F02BP_2.dta


*get file mydata\f02bp.dta
***Y03 visit, BP readings
tab apsbp1 if visit=="Y03"
gen sbp1_3=apsbp1 if visit=="Y03"
label var sbp1_3 "systolic BP1 Y03"
tab sbp1_3
tab apsbp2 if visit=="Y03"
gen sbp2_3=apsbp2 if visit=="Y03"
label var sbp2_3 "systolic BP2 Y03"
tab sbp2_3
gen avsbp_3=(sbp1_3+sbp2_3)/2
label var avsbp_3 "av systolic BP Y03"

tab apdbp1 if visit=="Y03"
gen dbp1_3=apdbp1 if visit=="Y03"
label var dbp1_3 "diastolic BP1 Y03"
tab dbp1_3
tab apdbp2 if visit=="Y03"
gen dbp2_3=apdbp2 if visit=="Y03"
label var dbp2_3 "diastolic BP2 Y03"
tab dbp2_3
gen avdbp_3=(dbp1_3+dbp2_3)/2
label var avdbp_3 "av diastolic BP Y03"

summarize avsbp_3
summarize avdbp_3
list release_id visit sbp1_3 sbp2_3 dbp1_3 dbp2_3 avsbp_3 avdbp_3 in 1/10
keep if visit=="Y03"
list release_id visit sbp1_3 sbp2_3 dbp1_3 dbp2_3 avsbp_3 avdbp_3 in 1/10
save c:\DPP\Analyses\DC2005\F02BP_3.dta


***sort by ID and merge Y01, Y02, and Y03 files
list release_id avsbp_1 avsbp_2 avsbp_3
keep release_id sbp1_1 sbp2_1 dbp1_1 dbp2_1 sbp1_2 sbp2_2 dbp1_2 dbp2_2 sbp1_3
 sbp2_3 dbp1_3 dbp2_3 avsbp_1 avdbp_1 avsbp_2 avdbp_2 avsbp_3 avdbp_3
save c:\DPP\Analyses\DC2005\F02BP_123.dta


/* merge BP measurements at Y1-Y3 with baseline data & measurements
select variables from basedata and S03 and save S03BP.dta
get file my files\baseS1S3 */

*random variable excludes Rs assigned to Troglitazone
gen random=.
replace random=1 if assign=="Lifestyle"
replace random=2 if assign=="Metformin"
replace random=3 if assign=="Placebo"
label define random 1"Lifestyle" 2"Metformin" 3"Placebo"
label val random random
keep if random >=1
list release_id visit random sosbp1 sosbp2 sodbp1 sodbp2 sosbpa sodbpa in 1/4
keep release_id visit random sosbp1 sosbp2 sodbp1 sodbp2 sosbpa sodbpa
save c:\DPP\Analyses\DC2005\S03BP.dta
```

```
*merge with F02BP_123.dta  see BP files.do
save c:\DPP\Analyses\DC2005\BPfinal.dta

. use "C:\DPP\analyses\DC2005\BPfinal.dta", clear


. **TABLE 2. BP by treatment group regardless of therapy
. tab random

     random |      Freq.     Percent        Cum.
------------+-----------------------------------
  Lifestyle |      1,024       33.24       33.24
  Metformin |      1,027       33.33       66.57
    Placebo |      1,030       33.43      100.00
------------+-----------------------------------
      Total |      3,081      100.00

. list sosbp1 sosbp2 sosbpa sbp1_1 sbp2_1 avsbp_1 sodbp1 sodbp2 sodbpa in 1/5

     +-------------------------------------------------------------------------------+
     | sosbp1   sosbp2   sosbpa   sbp1_1   sbp2_1   avsbp_1   sodbp1   sodbp2   sodbpa |
     |-------------------------------------------------------------------------------|
  1. |    106      100      103        96        98         97       66        70        68 |
  2. |     98      100       99       108       114        111       78        74        76 |
  3. |    150      148      149       118       116        117       80        82        81 |
  4. |    124      124      124       114       114        114       88        92        90 |
  5. |    122      124      123       134       136        135       84        86        85 |
     +-------------------------------------------------------------------------------+

.
. sort random
. by random: summarize sosbpa avsbp_1 avsbp_2 avsbp_3

-------------------------------------------------------------------------------------------
-
-> random = Lifestyle

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      sosbpa |      1024    124.1543     14.7619         84        175
     avsbp_1 |       972    120.7284    15.29833         87        191
     avsbp_2 |       946    120.6438    14.72228         85        209
     avsbp_3 |       602    120.4435    14.63804         80        181

-------------------------------------------------------------------------------------------
-
-> random = Metformin

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      sosbpa |      1027    124.4508    14.90353         89        179
     avsbp_1 |       971    123.4032    14.60181       82.5        180
     avsbp_2 |       960    123.1656    14.39469         90        180
     avsbp_3 |       599    124.1728    14.32412       89.5        186

-------------------------------------------------------------------------------------------
-
-> random = Placebo

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      sosbpa |      1030     123.832    14.39981         80        176
     avsbp_1 |       972    123.0386    14.85265         89        187
```

```
     avsbp_2 |       962    123.4927    14.54642         90        185
     avsbp_3 |       622    123.2749    14.09426         91        178

. by random: summarize sodbpa avdbp_1 avdbp_2 avdbp_3

-------------------------------------------------------------------------------------------
-
-> random = Lifestyle

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      sodbpa |      1024    78.82715    9.159625         48        105
     avdbp_1 |       972    74.95165    9.236298         50        111
     avdbp_2 |       946    75.22146    9.109902         50        107
     avdbp_3 |       602    75.04485    9.525147         44        105

-------------------------------------------------------------------------------------------
-
-> random = Metformin

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      sodbpa |      1027    78.45959    9.510796         47        105
     avdbp_1 |       971    77.06746    9.132125         43        105
     avdbp_2 |       960    77.20885    9.352018         49        109
     avdbp_3 |       598    77.05268    9.442242         41        114

-------------------------------------------------------------------------------------------
-
-> random = Placebo

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      sodbpa |      1030    78.17864    9.203938         25        104
     avdbp_1 |       972    77.37397    9.472047         49        110
     avdbp_2 |       962    77.23233    9.046724         41        120
     avdbp_3 |       622    76.55707    8.858089         50        111

.
. *mean change from baseline to year one
. gen chng1s=.
(3356 missing values generated)

. replace chng1s=avsbp_1-sosbpa
(2915 real changes made)

. mean chng1s, over (random)

Mean estimation                     Number of obs    =    2915

    Lifestyle: random = Lifestyle
    Metformin: random = Metformin
      Placebo: random = Placebo

--------------------------------------------------------------
        Over |       Mean   Std. Err.     [95% Conf. Interval]
-------------+------------------------------------------------
chng1s       |
   Lifestyle |  -3.288066   .4342065     -4.139449   -2.436683
   Metformin |   -1.11689   .4468502     -1.993064   -.2407156
     Placebo |  -.8153292   .4176811     -1.634309    .0036509
--------------------------------------------------------------
```

```
. gen chng1d=.
(3356 missing values generated)
. replace chng1d=avdbp_1-sodbpa
(2915 real changes made)
. mean chng1d, over (random)

Mean estimation                     Number of obs    =    2915

    Lifestyle: random = Lifestyle
    Metformin: random = Metformin
      Placebo: random = Placebo

--------------------------------------------------------------
        Over |       Mean   Std. Err.     [95% Conf. Interval]
-------------+------------------------------------------------
chng1d       |
   Lifestyle |  -3.740741   .2900138     -4.309394   -3.172088
   Metformin |  -1.254892   .2941041     -1.831565   -.6782188
     Placebo |  -.7813786   .2860282     -1.342217   -.2205406
--------------------------------------------------------------

.
. gen chng2s=.
(3356 missing values generated)
. replace chng2s=avsbp_2-sosbpa
(2868 real changes made)
. mean chng2s, over (random)

Mean estimation                     Number of obs    =    2868

    Lifestyle: random = Lifestyle
    Metformin: random = Metformin
      Placebo: random = Placebo

--------------------------------------------------------------
        Over |       Mean   Std. Err.     [95% Conf. Interval]
-------------+------------------------------------------------
chng2s       |
   Lifestyle |   -3.27167   .4318737     -4.118484   -2.424856
   Metformin |  -1.152083   .4461665     -2.026923   -.2772437
     Placebo |  -.4189189   .4374185     -1.276605    .4387676
--------------------------------------------------------------

. gen chng2d=.
(3356 missing values generated)
. replace chng2d=avdbp_2-sodbpa
(2868 real changes made)
. mean chng2d, over (random)

Mean estimation                     Number of obs    =    2868

    Lifestyle: random = Lifestyle
    Metformin: random = Metformin
      Placebo: random = Placebo

--------------------------------------------------------------
        Over |       Mean   Std. Err.     [95% Conf. Interval]
-------------+------------------------------------------------
chng2d       |
   Lifestyle |  -3.433932   .2934095     -4.009247   -2.858617
   Metformin |  -1.120313   .2872632     -1.683576   -.5570492
     Placebo |  -.9786902   .2955802     -1.558261    -.399119
--------------------------------------------------------------
```

```
. gen chng3s=.
(3356 missing values generated)
. replace chng3s=avsbp_3-sosbpa
(1823 real changes made)
. mean chng3s, over (random)

Mean estimation                     Number of obs    =    1823

    Lifestyle: random = Lifestyle
    Metformin: random = Metformin
      Placebo: random = Placebo

--------------------------------------------------------------
        Over |       Mean   Std. Err.     [95% Conf. Interval]
-------------+------------------------------------------------
chng3s       |
   Lifestyle |  -2.677741   .5873877     -3.829765   -1.525717
   Metformin |  -.6886477   .5786447     -1.823525     .446229
     Placebo |  -.4292605   .5770876     -1.561083    .7025624
--------------------------------------------------------------

. gen chng3d=.
(3356 missing values generated)
. replace chng3d=avdbp_3-sodbpa
(1822 real changes made)
. mean chng3d, over (random)

Mean estimation                     Number of obs    =    1822

    Lifestyle: random = Lifestyle
    Metformin: random = Metformin
      Placebo: random = Placebo

--------------------------------------------------------------
        Over |       Mean   Std. Err.     [95% Conf. Interval]
-------------+------------------------------------------------
chng3d       |
   Lifestyle |  -3.774086   .3971254     -4.552956   -2.995217
   Metformin |  -1.564381    .396039      -2.34112   -.7876429
     Placebo |  -1.836817   .3632436     -2.549235   -1.124399
--------------------------------------------------------------

.
end of do-file
.
. use "C:\DPP\Data\Non-Form Data\base-lab.dta", clear

. do "C:\DOCUME~1\smr\LOCALS~1\Temp\STD06000000.tmp"

. **********Figure 2
. * use base-lab.data
.
. /* random variable excludes Rs assigned to Troglitazone
> gen random=.
> replace random=1 if assign=="Lifestyle"
> replace random=2 if assign=="Metformin"
> replace random=3 if assign=="Placebo"
> label define random 1"Lifestyle" 2"Metformin" 3"Placebo"
> label val random random */
.
. sort random
```

```
.
. /*Figure 2A. Mean triglyceride levels by treatment
> gen trigR=trig/89 */
. summarize trigR if visit=="BAS" & random >=1

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |      3660    1.837515    1.089796   .3483146    14.1573

. by random:summarize trigR if visit=="BAS" & random >=1

-------------------------------------------------------------------------------
--> random = Lifestyle

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |      1022    1.831252    1.092557   .3483146    8.94382

-------------------------------------------------------------------------------
--> random = Metformin

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |      1027    1.780281    1.014228   .4044944   10.33708

-------------------------------------------------------------------------------
--> random = Placebo

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |      1027    1.878844      1.0406   .4157303   9.247191

-------------------------------------------------------------------------------
--> random = .

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |       584    1.876443    1.279494   .3595506    14.1573


.
. summarize trigR if visit=="Y01" & random >=1

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |      3438    1.670173    1.004233   .2921348   12.68539

. by random: summarize trigR if visit=="Y01" & random >=1

-------------------------------------------------------------------------------
--> random = Lifestyle

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |       969    1.541622    .9295092   .3146068   9.393258

-------------------------------------------------------------------------------
--> random = Metformin

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |       966    1.725591    1.048554   .3258427   12.68539
```

```
-------------------------------------------------------------------------------------------
--> random = Placebo

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |       974    1.782791    1.067591   .3483146   9.449438

-------------------------------------------------------------------------------------------
--> random = .

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |       529    1.597099    .8979138   .2921348   8.089888


. summarize trigR if visit=="Y02" & random >=1

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |      3381    1.673503    .9862476   .2808989   11.48315

. by random: summarize trigR if visit=="Y02" & random >=1

-------------------------------------------------------------------------------------------
--> random = Lifestyle

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |       946    1.578165    .9507271   .3483146   7.550562

-------------------------------------------------------------------------------------------
--> random = Metformin

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |       956    1.699567    1.004376   .2808989   11.48315

-------------------------------------------------------------------------------------------
--> random = Placebo

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |       960    1.766468    1.043485   .3595506   9.898876

-------------------------------------------------------------------------------------------
-> random = .

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |       519    1.627308    .8866862   .3258427    7.16854


. summarize trigR if visit=="Y03" & random >=1

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |      2343    1.658035    .9389407   .3483146   10.70786

. by random: summarize trigR if visit=="Y03" & random >=1

-------------------------------------------------------------------------------------------
-
```

```
-> random = Lifestyle

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |       601     1.56105    .9174685   .3820225   8.089888

-------------------------------------------------------------------------------
-
-> random = Metformin

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |       598    1.748281    1.034187   .4157303    10.1236

-------------------------------------------------------------------------------
-
-> random = Placebo

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |       621    1.710778    .9348008   .3483146   10.70786

-------------------------------------------------------------------------------
-
-> random = .

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       trigR |       523    1.603669    .8368647   .3595506   5.651685


.
. /* Figure 2B. Mean HDL cholesterol by treatment
> gen chdlR=chdl/38.67 */
. summarize chdlR if visit=="BAS" & random >=1

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |      3660    1.179668    .3054864   .4913369   2.715283

. by random:summarize chdlR if visit=="BAS" & random >=1

-------------------------------------------------------------------------------
-
-> random = Lifestyle

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |      1022    1.193171    .3238833   .4913369   2.663563

-------------------------------------------------------------------------------
-> random = Metformin

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |      1027     1.19061    .2968285   .5171968   2.663563

-------------------------------------------------------------------------------
--> random = Placebo

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |      1027    1.156894    .2955464   .5689165   2.715283
```

```
-------------------------------------------------------------------------------
--> random = .

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |       584    1.176844    .3029259   .5430566   2.456685


.
. summarize chdlR if visit=="Y01" & random >=1

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |      3438    1.198067    .3114319   .4137574   2.922162

. by random:summarize chdlR if visit=="Y01" & random >=1

-------------------------------------------------------------------------------
--> random = Lifestyle

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |       969    1.226861    .3284897   .5171968   2.922162

-------------------------------------------------------------------------------
--> random = Metformin

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |       966    1.208747    .3104418   .4654771   2.715283

-------------------------------------------------------------------------------
--> random = Placebo

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |       974    1.156737    .2928049   .5430566   2.353245

-------------------------------------------------------------------------------
--> random = .

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |       529     1.20192    .3074066   .4137574   2.249806

.
. summarize chdlR if visit=="Y02" & random >=1

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |      3381    1.183916    .3094908   .4913369   3.051461

. by random:summarize chdlR if visit=="Y02" & random >=1

-------------------------------------------------------------------------------
--> random = Lifestyle

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |       946    1.215358    .3269114   .5171968   2.792863

-------------------------------------------------------------------------------
-
```

```
-> random = Metformin

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |       956      1.1915    .3056945   .4913369   3.051461

-------------------------------------------------------------------------------------------
-> random = Placebo

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |       960    1.144917    .2940055   .4913369   2.663563

-------------------------------------------------------------------------------------------
--> random = .

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |       519    1.184769    .3049428   .5689165   2.327386


.
. summarize chdlR if visit=="Y03" & random <=1

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |       601    1.194286    .3237026   .5430566   2.456685

. by random:summarize chdlR if visit=="Y03" & random >=1

-------------------------------------------------------------------------------------------
--> random = Lifestyle

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |       601    1.194286    .3237026   .5430566   2.456685

-------------------------------------------------------------------------------------------
--> random = Metformin

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |       598    1.199153    .3187892   .5430566   3.051461

-------------------------------------------------------------------------------------------
--> random = Placebo

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |       621    1.144371    .2909613   .5430566   2.223946

-------------------------------------------------------------------------------------------
--> random = .

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       chdlR |       523    1.186141    .3053153   .5430566   3.077321


.
.
. /* Percent with LDL phenotype B by treatment
> LDC phenotype B defined as LDL particle size <.263Rf */
```

```
. gen LDLpB=ldlz
(14488 missing values generated)

. replace LDLpB=1 if ldlz <.263
(5075 real changes made)

. replace LDLpB=0 if ldlz >=.263
(26740 real changes made)

. tab LDLpB

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |     26,740       84.05       84.05
          1 |      5,075       15.95      100.00
------------+-----------------------------------
      Total |     31,815      100.00

. tab ldlz if visit=="BAS" & random >=1

        ldl |
   particle |
       size |      Freq.     Percent        Cum.
------------+-----------------------------------
       .145 |          2        0.05        0.05
       .158 |         11        0.30        0.36
       .171 |          2        0.05        0.41
       .184 |         32        0.87        1.28
       .197 |          7        0.19        1.48
       .211 |        220        6.01        7.49
       .224 |         44        1.20        8.69
       .237 |        749       20.47       29.16
        .25 |         72        1.97       31.13
       .263 |      1,062       29.02       60.15
       .276 |         88        2.41       62.56
       .289 |      1,047       28.61       91.17
       .303 |         51        1.39       92.57
       .316 |        247        6.75       99.32
       .329 |          5        0.14       99.45
       .342 |         17        0.46       99.92
       .368 |          2        0.05       99.97
       .474 |          1        0.03      100.00
------------+-----------------------------------
      Total |      3,659      100.00

.
. tab LDLpB if visit=="BAS" & random <=1

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |        722       70.51       70.51
          1 |        302       29.49      100.00
------------+-----------------------------------
      Total |      1,024      100.00


. by random: tab LDLpB if visit=="BAS" & random >=1

-------------------------------------------------------------------------------------------
-> random = Lifestyle

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
```

```
          0 |        722       70.51       70.51
          1 |        302       29.49      100.00
------------+-----------------------------------
      Total |      1,024      100.00

-------------------------------------------------------------------------------------------
-> random = Metformin

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |        719       70.01       70.01
          1 |        308       29.99      100.00
------------+-----------------------------------
      Total |      1,027      100.00

-------------------------------------------------------------------------------------------
--> random = Placebo

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |        677       65.73       65.73
          1 |        353       34.27      100.00
------------+-----------------------------------
      Total |      1,030      100.00

-------------------------------------------------------------------------------------------
--> random = .

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |        408       69.86       69.86
          1 |        176       30.14      100.00
------------+-----------------------------------
      Total |        584      100.00


.
. tab LDLpB if visit=="Y01" & random >=1

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      2,498       72.41       72.41
          1 |        952       27.59      100.00
------------+-----------------------------------
      Total |      3,450      100.00

. by random: tab LDLpB if visit=="Y01" & random >=1

-------------------------------------------------------------------------------------------
--> random = Lifestyle

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |        759       78.17       78.17
          1 |        212       21.83      100.00
------------+-----------------------------------
      Total |        971      100.00

-------------------------------------------------------------------------------------------
--> random = Metformin

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
```

```
          0 |        676       69.69       69.69
          1 |        294       30.31      100.00
------------+-----------------------------------
      Total |        970      100.00

-------------------------------------------------------------------------------------------
--> random = Placebo

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |        660       67.62       67.62
          1 |        316       32.38      100.00
------------+-----------------------------------
      Total |        976      100.00

-------------------------------------------------------------------------------------------
--> random = .

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |        403       75.61       75.61
          1 |        130       24.39      100.00
------------+-----------------------------------
      Total |        533      100.00


.
. tab LDLpB if visit=="Y02" & random >=1

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      2,340       69.11       69.11
          1 |      1,046       30.89      100.00
------------+-----------------------------------
      Total |      3,386      100.00

. by random: tab LDLpB if visit=="Y02" & random >=1

-------------------------------------------------------------------------------------------
--> random = Lifestyle

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |        709       74.95       74.95
          1 |        237       25.05      100.00
------------+-----------------------------------
      Total |        946      100.00

-------------------------------------------------------------------------------------------
--> random = Metformin

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |        641       66.98       66.98
          1 |        316       33.02      100.00
------------+-----------------------------------
      Total |        957      100.00

-------------------------------------------------------------------------------------------
--> random = Placebo

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
```

```
          0 |        637       66.22       66.22
          1 |        325       33.78      100.00
------------+-----------------------------------
      Total |        962      100.00

-------------------------------------------------------------------------------------------
--> random = .

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |        353       67.75       67.75
          1 |        168       32.25      100.00
------------+-----------------------------------
      Total |        521      100.00


.
. tab LDLpB if visit=="Y03" & random >=1

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,678       71.56       71.56
          1 |        667       28.44      100.00
------------+-----------------------------------
      Total |      2,345      100.00

. by random: tab LDLpB if visit=="Y03" & random >=1

-------------------------------------------------------------------------------------------
--> random = Lifestyle

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |        452       75.08       75.08
          1 |        150       24.92      100.00
------------+-----------------------------------
      Total |        602      100.00

-------------------------------------------------------------------------------------------
--> random = Metformin

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |        429       71.62       71.62
          1 |        170       28.38      100.00
------------+-----------------------------------
      Total |        599      100.00

-------------------------------------------------------------------------------------------
--> random = Placebo

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |        413       66.51       66.51
          1 |        208       33.49      100.00
------------+-----------------------------------
      Total |        621      100.00

-------------------------------------------------------------------------------------------
--> random = .

      LDLpB |      Freq.     Percent        Cum.
------------+-----------------------------------
```

```
          0 |        384       73.42       73.42
          1 |        139       26.58      100.00
------------+-----------------------------------
      Total |        523      100.00

 log close
       log:  C:\DPP\analyses\DC2005\Attach3.log
  log type:  text
 closed on:  15 May 2008, 09:54:31
-------------------------------------------------------------------------------------------
```