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Dataset Integrity Check for the DCCT-EDIC Study on Coronary Artery Calcification using Computed Tomography (CT) scans [CT Scan Study]

The Data Coordinating Center (DCC) of the DCCT-EDIC Research Group submitted an analysis dataset to the NIDDK Data Repository, pertaining to the *Diabetes Vol.55 [2006]* publication, "The Effect of Intensive Glycemic Treatment on Coronary Artery Calcification in Type I Diabetic Participants of the Diabetes Control and Complications Trial/Epidemiology of Diabetes Interventions and Complications (DCCT/EDIC) Study" [1]. As a partial check of the integrity of this DCCT-EDIC dataset archived in the NIDDK data repository, a dataset integrity check (DSIC) was performed to verify that selected published results from this study could be reproduced using the archived dataset. Results of the DSIC are described below.

The intent of this DSIC is to provide confidence that the data distributed by the NIDDK repository is a true copy of the study data. Our intent is ***not*** to assess the integrity of the statistical analyses reported by study investigators. As with all statistical analyses of complex datasets, complete replication of a set of statistical results should not be expected on a first (or second) exercise in secondary analysis. This occurs for a number of reasons including differences in the handling of missing data, restrictions on cases included in samples for a particular analysis, software coding used to define complex variables, etc. Experience suggests that most discrepancies can ordinarily be resolved by consultation with the study DCC, however this process is labor-intensive for both DCC and Repository staff. It is thus not our policy to resolve every discrepancy that is observed in an integrity check. Thus, we do not attempt to resolve minor or inconsequential discrepancies with published results or discrepancies that involve complex analyses unless staff of the NIDDK Repository suspect that the observed discrepancy suggests that the dataset may have been corrupted in storage, transmission, or processing by repository staff. We do, however, document in footnotes to the integrity check those instances in which our secondary analyses produced results that were not fully consistent with those reported in the target publication.

DSIC Methods. A portion of the analyses were selected for replication to assure the archived dataset is a true copy of the one analyzed for Publication. The methods of analysis emulated those described in the Publication text. *PC-SAS* was used for all DSIC analysis.

DSIC Results. In this study, Coronary Artery Calcification (CAC) was measured as an index of atherosclerosis using computed tomography (CT) scans in 1205 DCCT/EDIC patients, 7-9 years after DCCT close. Tables 1a and 1b of this DSIC compares published patient characteristics to results obtained from analyses of the archived SAS dataset. The counts, percentages, means, and standard deviations obtained from analyses of the archived data closely matched published tabulations. Observed differences are easily attributable to rounding error [Tables 1a, 1b].

Table 1a. Clinical characteristics of participants in CT scan study by sex and DCCT treatment assignment: Female subjects

	Intensive						Conventional					
	Archived		Published*		Difference		Archived		Published*		Difference	
n	297		297		**(0)**		275		275		**(0)**	
Age at entry into DCCT (years)	27	(7)	27	(7)	**0**	**(0)**	26	(7)	26	(7)	**0**	**(0)**
DCCT follow-up (years)	6.4	(1.7)	6.4	(1.7)	**0.0**	**(0.0)**	6.3	(1.7)	6.3	(1.7)	**0**	**(0.0)**
EDIC follow-up (years)	9.2	(0.5)	9.2	(0.5)	**0.0**	**(0.0)**	9.1	(0.5)	9.1	(0.5)	**0**	**(0.0)**
DCCT baseline												
Retinopathy (negative) (%)	51		51		**(0)**		49		49		**(0)**	
Albumine excretion rate	16	(20)	16	(20)	**0**	**(0)**	15	(13)	15	(13)	**0**	**(0)**
Diabetes Duration (months)	69	(50)	69	(50)	**0**	**(0)**	71	(51)	71	(51)	**0**	**(0)**
Visit prior to or at time of CT scan												
Age (years)	43	(7)	43	(7)	**0**	**(0)**	42	(7)	42	(7)	**0**	**(0)**
Current smokers (%)	15		15		**(0)**		13		14		**(1)**	
Diabetes Duration (years)	21	(5)	21	(5)	**0**	**(0)**	21	(5)	21	(5)	**0**	**(0)**
BMI (kg/m^2)	27	(5)	28	(5)	**1**	**(0)**	27	(4)	27	(5)	**0**	**(1)**
Waist-to-hip ratio	0.79	(0.07)	0.79	(0.07)	**0**	**(0.00)**	0.78	(0.06)	0.78	(0.06)	**0**	**(0.00)**
Ankle-to-arm blood pressure ratio <0.9 (%)	14		15		**(1)**		12		12		**(0)**	
Systolic blood pressure (mm Hg)	120	(14)	120	(14)	**0**	**(0)**	120	(15)	120	(15)	**0**	**(0)**
Diastolic blood pressure (mm Hg)	75	(9)	75	(9)	**0**	**(0)**	74	(9)	74	(9)	**0**	**(0)**
Hypertension (%)	29		29		**(0)**		36		36		**(0)**	
Aspirin ≥ 14 pills/mo (%)	22		22		**(0)**		25		25		**(0)**	
Menopause (%)	26		26		**(0)**		21		21		**(0)**	
One or both parents with type 2 diabetes (%)	20		20		**(0)**		15		15		**(0)**	
Carotid IMT year 6[a]	0.60	(0.11)	0.60	(0.11)	**0.00**	**(0.00)**	0.59	(0.10)	0.59	(0.10)	**0.00**	**(0.00)**
Lipids												
Total cholesterol (mmol/l)	4.94	(0.96)	4.94	(0.96)	**0.00**	**(0.00)**	4.83	(0.84)	4.83	(0.84)	**0.00**	**(0.00)**
HDL (mmol/l)	1.59	(0.38)	1.59	(0.38)	**0.00**	**(0.00)**	1.62	(0.38)	1.62	(0.38)	**0.00**	**(0.00)**
LDL (mmol/l)	2.89	(0.76)	2.89	(0.76)	**0.00**	**(0.00)**	2.81	(0.69)	2.81	(0.69)	**0.00**	**(0.00)**
LDL-to-HDL ratio	1.9	(0.8)	1.9	(0.8)	**0.0**	**(0.0)**	1.8	(0.6)	1.8	(0.6)	**0.0**	**(0.0)**
Triglyceride (mmol/l)	0.95	(0.64)	0.95	(0.64)	**0.00**	**(0.00)**	0.89	(0.58)	0.89	(0.58)	**0.00**	**(0.00)**
Hypercholesterolemia (%)	30		30		**(0)**		29		29		**(0)**	
Renal												
Albumin excretion rate (mg/24 h)	36	(194)	36	(194)	**0**	**(0)**	84	(371)	84	(370)	**0**	**(-1)**
Albumin excretion rate >40 mg/24 h (%)	9		9		**(0)**		18		18		**(0)**	
A1C												
DCCT eligibility	9.2	(1.6)	9.2	(1.6)	**0.0**	**(0.0)**	9.1	(1.7)	9.1	(1.7)	**0.0**	**(0.0)**
Mean during DCCT	7.3	(0.9)	7.3	(0.9)	**0.0**	**(0.0)**	9.1	(1.4)	9.1	(1.4)	**0.0**	**(0.0)**
DCCT closeout	7.3	(1.0)	7.3	(1.0)	**0.0**	**(0.0)**	9.1	(1.8)	9.1	(1.8)	**0.0**	**(0.0)**
Mean during EDIC	8.1	(1.2)	8.1	(1.2)	**0.0**	**(0.0)**	8.1	(1.2)	8.1	(1.2)	**0.0**	**(0.0)**
At visit prior to CT	8.0	(1.4)	8.0	(1.4)	**0.0**	**(0.0)**	7.9	(1.5)	7.9	(1.5)	**0.0**	**(0.0)**
Mean during DCCT/EDIC	7.8	(0.9)	7.8	(0.9)	**0.0**	**(0.0)**	8.5	(1.1)	8.5	(1.1)	**0.0**	**(0.0)**

* Cleary PA, et.al, *Diabetes* Vol. 55 [2006], Table 1, p. 3558.

[a] This is common carotid IMT, per E-mail communication with the DCC 06/24/09

Table 1b. Clinical characteristics of participants in CT scan study by sex and DCCT treatment assignment: Male subjects

	Intensive						Conventional					
	Archived		Published*		Difference		Archived		Published*		Difference	
N	300		300		**(0)**		333		333		**(0)**	
Age at entry into DCCT (years)	28	(7)	28	(7)	**0**	**(0)**	28	(7)	28	(7)	**0**	**(0)**
DCCT follow-up (years)	6.4	(1.7)	6.4	(1.7)	**0.0**	**(0.0)**	6.1	(1.6)	6.1	(1.6)	**0**	**(0.0)**
EDIC follow-up (years)	9.1	(0.5)	9.1	(0.5)	**0.0**	**(0.0)**	9.2	(0.5)	9.2	(0.5)	**0**	**(0.0)**
DCCT baseline												
Retinopathy (negative) (%)	46		46		**(0)**		53		54		**(1)**	
Albumine excretion rate	17	(21)	17	(21)	**0**	**(0)**	15	(20)	15	(20)	**0**	**(0)**
Diabetes Duration (months)	70	(50)	70	(50)	**0**	**(0)**	60	(46)	60	(46)	**0**	**(0)**
Visit prior to or at time of CT scan												
Age (years)	43	(7)	43	(7)	**0**	**(0)**	43	(7)	43	(7)	**0**	**(0)**
Current smokers (%)	17		18		**(1)**		14		15		**(1)**	
Diabetes Duration (years)	21	(5)	21	(5)	**0**	**(0)**	20	(5)	20	(5)	**0**	**(0)**
BMI (kg/m^2)	28	(4)	28	(4)	**0**	**(0)**	28	(4)	28	(4)	**0**	**(0)**
Waist-to-hip ratio	0.91	(0.06)	0.91	(0.06)	**0.00**	**(0.00)**	0.90	(0.06)	0.90	(0.06)	**0.00**	**(0.00)**
Ankle-to-arm blood pressure ratio <0.9 (%)	7		7		**(0)**		8		8		**(0)**	
Systolic blood pressure (mm Hg)	123	(14)	123	(13)	**0**	**(-1)**	125	(15)	125	(15)	**0**	**(0)**
Diastolic blood pressure (mm Hg)	78	(9)	78	(9)	**0**	**(0)**	78	(10)	78	(10)	**0**	**(0)**
Hypertension (%)	35		35		**(0)**		46		46		**(0)**	
Aspirin ≥ 14 pills/mo (%)	26		26		**(0)**		33		33		**(0)**	
One or both parents with type 2 diabetes (%)	17		17		**(0)**		19		19		**(0)**	
Carotid IMT year 6[b]	0.63	(0.10)	0.63	(0.10)	**0.00**	**(0.00)**	0.65	(0.14)	0.65	(0.14)	**0.00**	**(0.00)**
Lipids												
Total cholesterol (mmol/l)	4.81	(0.90)	4.81	(0.90)	**0.00**	**(0.00)**	4.73	(0.85)	4.73	(0.85)	**0.00**	**(0.00)**
HDL (mmol/l)	1.31	(0.35)	1.31	(0.35)	**0.00**	**(0.00)**	1.32	(0.30)	1.32	(0.30)	**0.00**	**(0.00)**
LDL (mmol/l)	2.98	(0.76)	2.98	(0.76)	**0.00**	**(0.00)**	2.92	(0.74)	2.92	(0.74)	**0.00**	**(0.00)**
LDL-to-HDL ratio	2.4	(0.9)	2.4	(0.9)	**0.0**	**(0.0)**	2.3	(0.8)	2.3	(0.8)	**0.0**	**(0.0)**
Triglyceride (mmol/l)	1.15	(0.88)	1.15	(0.88)	**0.00**	**(0.00)**	1.06	(0.61)	1.06	(0.61)	**0.00**	**(0.00)**
Hypercholesterolemia (%)	44		44		**(0)**		40		40		**(0)**	
Renal												
Albumin excretion rate (mg/24 h)	105	(731)	105	(731)	**0**	**(0)**	234	(863)	234	(863)	**0**	**(0)**
Albumin excretion rate >40 mg/24 h (%)	13		13		**(0)**		26		26		**(0)**	
A1C												
DCCT eligibility	9.0	(1.6)	9.0	(1.6)	**0.0**	**(0.0)**	8.8	(1.6)	8.8	(1.6)	**0.0**	**(0.0)**
Mean during DCCT	7.2	(0.9)	7.2	(0.9)	**0.0**	**(0.0)**	8.9	(1.1)	8.9	(1.1)	**0.0**	**(0.0)**
DCCT closeout	7.4	(1.1)	7.4	(1.1)	**0.0**	**(0.0)**	9.1	(1.3)	9.1	(1.3)	**0.0**	**(0.0)**
Mean during EDIC	8.0	(1.1)	8.0	(1.1)	**0.0**	**(0.0)**	8.2	(1.1)	8.2	(1.1)	**0.0**	**(0.0)**
At visit prior to CT	7.9	(1.2)	7.9	(1.2)	**0.0**	**(0.0)**	7.9	(1.3)	7.9	(1.3)	**0.0**	**(0.0)**
Mean during DCCT/EDIC	7.7	(1.0)	7.7	(1.0)	**0.0**	**(0.0)**	8.5	(1.0)	8.5	(1.0)	**0.0**	**(0.0)**

* Cleary PA, et.al, *Diabetes,* Vol. 55 [2006], Table 1, p. 3558.

[b] This is common carotid IMT, per E-mail communication with the DCC 06/24/09

Correlation between CAC and Coronary Artery Disease risk factors. The Publication reports univariate Spearman rank correlations assessing the association between covariates and the prevalence of CAC>0 Agatston units, CAC>200 Agatston units, and log CAC. Analyses are partially adjusted for DCCT baseline age and sex. Table 2 of this DSIC compares results of adjusted rank correlations performed on archived data with published results.

In general, published correlation coefficients and P-values match results of correlation analyses on archived data. However, analyses of archived data resulted in minor differences with published results which were confirmed to be due to minor inconsistencies in data reporting. For example, the published correlation between sex ("male vs. female") and log CAC is -0.21; whereas the said correlation was found to be +0.21 upon analyzing the legacy data file. It was determined the inconsistency stemmed from the reversal of the coding for sex for the published analysis, despite indications in the labeling.[c]

Minor reporting inconsistencies are also noted across tables. The IMT variable reported in the Publication's Table 2, though correctly labeled as "Combined Carotid IMT Year 6", was found not to be the same variable as that reported in the Publication's Table 1, which is labeled as "Carotid IMT at Year 6." It was later confirmed the variable reported in the Publication's Table 1 is Common IMT at Year 6, which is distinct from Combined IMT.[d]

Finally, it is noted that recent clinical measurements are derived from the "Visit prior to or at time of CT scan" in the Publication's Table 1, and from "Most recent measure prior to CT scan" in the Publication's Table 2. Despite slight differences in description, analyses of archived data revealed the same measures are analyzed in both tables.[e]

Conclusion. Selected analysis of the CT scan analysis dataset closely replicates results reported by the DCCT-EDIC investigators in *Diabetes* (2006), aside from small inconsistencies in published data reporting. These results provide confidence that the analysis dataset distributed by the NIDDK Repository is a true copy of the CT scan analysis dataset.

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[c] Confirmed by the DCC via *E*-mail, 07/27/09

[d] The DCC confirmed on 06/24/09 the Carotid IMT variable reported on in the publication's Table 1 is common carotid IMT.

[e] Specifically, it was confirmed recent measures were derived from the visit prior to, or at time of, CT scan.

Table 2. Partial Spearman rank correlation between CAC and covariates

	CAC >0					CAC >200				
	Archived		Published*		Difference in coefficients	Archived		Published*		Difference in coefficients
	Coeff	*P* value	Coeff	*P* value		Coeff	*P* value	Coeff	*P* value	
Attained age	0.32	<0.0001	0.32	<0.0001	**0.00**	0.25	<0.0001	0.25	<0.0001	**0.00**
Sex (male versus female)	0.21	<0.0001	0.21	<0.0001	**0.00**	0.11	<0.0001	0.11	<0.0001	**0.00**
Smoking (yes/no)	0.13	<0.0001	0.13	<0.0001	**0.00**	0.12	<0.0001	0.12	<0.0001	**0.00**
DCCT baseline										
Retinopathy (yes/no)	0.11	0.0001	0.11	0.0001	**0.00**	0.09	0.003	0.09	0.003	**0.00**
Albumine excretion rate	0.09	0.003	0.09	0.003	**0.00**	0.07	0.012	0.07	0.012	**0.00**
Duration	0.11	0.0002	0.11	0.0002	**0.00**	0.08	0.007	0.08	0.007	**0.00**
Age	0.28	<0.0001	0.28	<0.0001	**0.00**	0.22	<0.0001	0.22	<0.0001	**0.00**
DCCT follow-up years	0.19	<0.0001	0.19	<0.0001	**0.00**	0.14	<0.0001	0.14	<0.0001	**0.00**
EDIC follow-up years	0.01	0.693	0.01	0.693	**0.00**	0.03	0.282	0.03	0.282	**0.00**
Most recent measure prior to CT scan										
Duration	0.16	<0.0001	0.16	<0.0001	**0.00**	0.13	<0.0001	0.13	<0.0001	**0.00**
Weight	0.02	0.512	0.02	0.512	**0.00**	0.02	0.424	0.02	0.424	**0.00**
Height	-0.04	0.185	-0.04	0.185	**0.00**	0.08	0.005	0.08	0.005	**0.00**
BMI	0.03	0.235	0.03	0.235	**0.00**	0.02	0.518	0.02	0.518	**0.00**
Waist-to-hip ratio	0.14	<0.0001	0.14	<0.0001	**0.00**	0.08	0.006	0.08	0.006	**0.00**
Ankle-to-arm ratio	-0.04	0.125	-0.04	0.125	**0.00**	-0.09	0.002	-0.09	0.002	**0.00**
HDL	-0.10	0.001	-0.10	0.001	**0.00**	-0.06	0.056	-0.06	0.056	**0.00**
LDL	0.02	0.535	0.02	0.535	**0.00**	0.01	0.791	0.01	0.791	**0.00**
Total cholesterol	<0.01	0.981	<0.01	0.981	**0.00**	0.01	0.627	0.01	0.627	**0.00**
LDL-to-HDL ratio	0.08	0.007	0.08	0.007	**0.00**	0.03	0.307	0.03	0.307	**0.00**
Triglyceride	0.07	0.015	0.07	0.015	**0.00**	0.07	0.013	0.07	0.012	**0.00**
Hypercholesterolemia (yes/no)	0.13	<0.0001	0.13	<0.0001	**0.00**	0.11	<0.0001	0.11	<0.0001	**0.00**
Systolic blood pressure	0.06	0.039	0.06	0.040	**0.00**	0.07	0.019	0.07	0.020	**0.00**
Diastolic blood pressure	-0.03	0.291	-0.03	0.291	**0.00**	0.02	0.503	0.02	0.500	**0.00**
Hypertension (yes/no)	0.12	<0.0001	0.12	<0.0001	**0.00**	0.12	<0.0001	0.12	<0.0001	**0.00**
Albumin excretion rate >40 (yes/no)	0.09	0.003	0.09	0.003	**0.00**	0.12	<0.0001	0.12	<0.0001	**0.00**
Combined carotid IMT year 6	0.16	<0.0001	0.16	<0.0001	**0.00**	0.16	<0.0001	0.16	<0.0001	**0.00**
Aspirin use (yes/no)	0.11	<0.0001	0.11	<0.0001	**0.00**	0.11	0.0002	0.11	0.0002	**0.00**
Menopause (yes/no)	0.01		0.11		**0.10**	0.06	0.140	0.06	0.140	**0.00**
One or both parents with type 2 diabetes (yes/no)	<0.01	0.881	<0.01	0.881	**0.00**	0.08	0.005	0.09	0.005	**0.01**
A1C										
DCCT eligibility	0.12	<0.0001	0.12	<0.001	**0.00**	0.03	0.242	0.03	0.242	**0.00**
Mean during DCCT	0.09	0.001	0.09	0.001	**0.00**	0.10	0.001	0.10	0.001	**0.00**
DCCT closeout	0.08	0.004	0.08	0.004	**0.00**	0.08	0.008	0.08	0.008	**0.00**
Mean during EDIC	0.09	0.003	0.09	0.001	**0.00**	0.04	0.115	0.04	0.115	**0.00**
At visit prior to CT	0.07	0.010	0.07	0.010	**0.00**	0.07	0.021	0.07	0.021	**0.00**
Mean during DCCT/EDIC	0.10	0.0003	0.10	0.0003	**0.00**	0.08	0.007	0.08	0.007	**0.00**

* Cleary PA, et.al *Diabetes* Vol. 55 [2006], Table 2, p. 3561.

Table 2, Continued. Partial Spearman rank correlation between CAC and covariates.

	Log CAC				
	Archived		Published*		Difference in coefficients
	Coeff	*P* value	Coeff	*P* value	
Attained age	0.34	<0.0001	0.34	<0.0001	**0.00**
Sex (male versus female)[f]	0.21	<0.0001	-0.21	<0.0001	**-0.42**
Smoking (yes/no)	0.14	<0.0001	0.14	<0.0001	**0.00**
DCCT baseline					
Retinopathy (yes/no)	0.12	<0.0001	0.12	<0.0001	**0.00**
Albumine excretion rate	0.09	0.001	0.09	0.001	**0.00**
Duration	0.12	<0.0001	0.12	<0.0001	**0.00**
Age	0.30	<0.0001	0.30	<0.0001	**0.00**
DCCT follow-up years	0.21	<0.0001	0.21	<0.0001	**0.00**
EDIC follow-up years	0.03	0.382	0.03	0.382	**0.00**
Most recent measure prior to CT scan					
Duration	0.17	<0.0001	0.17	<0.0001	**0.00**
Weight	0.01	0.747	0.001	0.747	**-0.01**
Height	-0.06	0.050	-0.06	0.050	**0.00**
BMI	0.04	0.214	0.04	0.214	**0.00**
Waist-to-hip ratio	0.14	<0.0001	0.14	<0.0001	**0.00**
Ankle-to-arm ratio	0.07	0.024	0.07	0.024	**0.00**
HDL	-0.10	0.001	-0.10	0.001	**0.00**
LDL	0.02	0.540	0.02	0.540	**0.00**
Total cholesterol	0.004	0.896	0.004	0.900	**0.00**
LDL-to-HDL ratio	0.07	0.011	0.07	0.011	**0.00**
Triglyceride	0.08	0.005	0.08	0.005	**0.00**
Hypercholesterolemia (yes/no)	0.14	<0.0001	0.14	<0.0001	**0.00**
Systolic blood pressure	0.07	0.020	0.07	0.020	**0.00**
Diastolic blood pressure	-0.02	0.401	-0.02	0.400	**0.00**
Hypertension (yes/no)	0.15	<0.0001	0.15	<0.0001	**0.00**
Albumin excretion rate >40 (yes/no)	0.11	0.0001	0.11	0.0001	**0.00**
Combined carotid IMT year 6	0.17	<0.0001	0.17	<0.0001	**0.00**
Aspirin use (yes/no)	0.13	<0.0001	0.13	<0.0001	**0.00**
Menopause (yes/no)	0.02	0.704	0.02	0.070	**0.00**
One or both parents with type 2 diabetes (yes/no)	0.01	0.785	0.01	0.785	**0.00**
A1C					
DCCT eligibility	0.12	<0.0001	0.12	<0.0001	**0.00**
Mean during DCCT	0.11	0.0002	0.11	0.0002	**0.00**
DCCT closeout	0.09	0.002	0.09	0.002	**0.00**
Mean during EDIC	0.09	0.001	0.09	0.001	**0.00**
At visit prior to CT	0.08	0.004	0.08	0.004	**0.00**
Mean during DCCT/EDIC	0.11	<0.0001	0.11	<0.0001	**0.00**

* Cleary PA, et.al *Diabetes* Vol. 55 [2006], Table 2, p. 3561.

[f] In Published analyses, the coding for sex was female vs. male, not male vs. female, thus reversing the direction of the Published correlation.

Reference.

[1] Cleary PA, Orchard TJ, Genuth S, Wong ND, Detrano R, Backlund JC, Zinman B, Jacobson A, Sun W, Lachin JM, and Nathan DM, for the DCCT/EDIC Research Group. **The Effect of Intensive Glycemic Treatment on Coronary Artery Calcification in Type 1 Diabetic Participants of the Diabetes Control and Complications Trial/Epidemiology of Diabetes Interventions and Complications (DCCT/EDIC) Study.** *Diabetes*, Vol 55 [Dec 2006], pp. 3556-65.

Attachment 1

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

Cleary PA, Orchard TJ, Genuth S, Wong ND, Detrano R, Backlund JC, Zinman B, Jacobson A, Sun W, Lachin JM, and Nathan DM, for the DCCT/EDIC Research Group.
The Effect of Intensive Glycemic Treatment on Coronary Artery Calcification in Type 1 Diabetic Participants of the Diabetes Control and Complications Trial/Epidemiology of Diabetes Interventions and Complications (DCCT/EDIC) Study.
Diabetes, Vol 55 [Dec 2006],
pp. 3556-65.

Attachment 2

SAS 9.1 Log
for programming code submitted
for the replication of results
in Tables 1 and 2 in
Cleary PA, et.al. [Dec 2006]

```
1                                          The SAS System              19:32 Friday, July 31,
2009

NOTE: Copyright (c) 2002-2003 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) 9.1 (TS1M3)
      Licensed to RTI INTERNATIONAL, Site 0047670001.
NOTE: This session is executing on the XP_PRO  platform.



NOTE: SAS 9.1.3 Service Pack 4

NOTE: SAS initialization used:
      real time           1.36 seconds
      cpu time            0.34 seconds

1          * Filename:  EDICCardio.SAS
2            Location:  ...\niddk2\05_Users\Sylvia\DCCT_EDIC\IntegCheck\Cardio
3            By:        Sylvia Tan
4            Purpose:   Analysis of integrity of EDIC 8-year Cardio-scan archived dataset
5            in the NIDDK Data Repository
6            Compare results to tables/text/selected figures in paper published by
7            DCCT-EDIC Research Group in 2006 (Diabetes Vol.55)
8            Last updated:  7/31/09 *;
9
10         options ps=55 ls=180 nonumber formchar='|----|+\---+=|-^<>*' mprint
10       ! orientation=portrait;
11
12         libname edicctup 'C:\Documents and Settings\stan\My
12       ! Documents\DATA\NIDDK\EDIC\Cardio\Edic-CT\Cardio-Update 07-09';
NOTE: Libref EDICCTUP was successfully assigned as follows:
      Engine:        V9
      Physical Name: C:\Documents and Settings\stan\My
      Documents\DATA\NIDDK\EDIC\Cardio\Edic-CT\Cardio-Update 07-09
13         *libname EDICCa_x xport
13       ! "Z:\05_Users\Sylvia\DCCT_EDIC\IntegCheck\EDIC_Cardio\edicCT.xpt";
14
15         *proc cimport data=EDICctup.EDICCard infile=EDICCa_x; run;
16
17         data ediccard; set edicctup.edicct;
18           array convlip tchol hdl ldl;
19           array mmollip tchol_mm hdl_mm ldl_mm;
20           do over convlip; mmollip=convlip/38.6; end;
21           trig_MM=trig/88.5;
22           * source:
22       ! http://www.sydpath.stvincents.com.au/other/Conversions/ConversionMasterF3Mid.htm *;
23           if sex='M' then male=1; else if sex='F' then male=0;
24           if retbase='PRIM' then retprim=1; else if retbase='SCND' then retprim=0;

NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      11 at 20:35   1 at 21:15
NOTE: There were 1205 observations read from the data set EDICCTUP.EDICCT.
NOTE: The data set WORK.EDICCARD has 1205 observations and 53 variables.
NOTE: DATA statement used (Total process time):
      real time           0.01 seconds
```

```
      cpu time            0.01 seconds


25         proc sort; by sex;
26
27         * to replicate results in Publication Table 1, p.3558 *;

NOTE: There were 1205 observations read from the data set WORK.EDICCARD.
NOTE: The data set WORK.EDICCARD has 1205 observations and 53 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time           0.07 seconds
      cpu time            0.01 seconds


28         proc means data=ediccard maxdec=3; class sex group;
29           var age0 DCCT_FUY EDIC_FUY aer0 DURMN0
30           ATT_AGE durn_yrs bmi whratio sbp dbp
31            COMMYR6 COMINT6A tchol_MM hdl_MM ldl_MM lhratio trig_MM
32            aer HBAEL DCCT_HBA HBAM999 EDICMHBA HBA1C WTMHBA; run;

NOTE: There were 1205 observations read from the data set WORK.EDICCARD.
NOTE: The PROCEDURE MEANS printed pages 1-12.
NOTE: PROCEDURE MEANS used (Total process time):
      real time           0.34 seconds
      cpu time            0.03 seconds


33            * note: common carotid <COMMYR6> was reported in Table 1, see note from DCC
below *;
34         proc freq data=EDICCard; by sex; tables group*(retbase
35         smoking AARLT09 ht aspirin meno PARTYII hlip /* <= this is hypercholesterimia */
36         aer40); run;

NOTE: There were 1205 observations read from the data set WORK.EDICCARD.
NOTE: The PROCEDURE FREQ printed pages 13-22.
NOTE: PROCEDURE FREQ used (Total process time):
      real time           0.12 seconds
      cpu time            0.00 seconds


37
38         * to replicate results in Publication Table 2, p.3561 *;
39         proc corr pearson spearman; var ctgt0 ctgt200 logct;
40           with att_age; partial male; run;

NOTE: The PROCEDURE CORR printed page 23.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds


41         proc corr pearson spearman; var ctgt0 ctgt200 logct;
42           with male; partial age0; run;
```

```
NOTE: The PROCEDURE CORR printed page 24.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


43         proc corr pearson spearman; var ctgt0 ctgt200 logct;
44           with age0; partial male; run;

NOTE: The PROCEDURE CORR printed page 25.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


45         proc corr pearson spearman data=ediccard ; var ctgt0 ctgt200 logct;
46           with smoking
47           retprim aer0 durmn0
48           DCCT_FUY EDIC_FUY;
49           partial age0 male; run;

NOTE: The PROCEDURE CORR printed pages 26-27.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds


50         %macro spcorr(var);
51         proc corr spearman data=ediccard; var ctgt0 ctgt200 logct;
52           with &var; partial age0 male; run;
53         %mend;
54         %spcorr(durn_yrs);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with durn_yrs;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 28.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds


55         %spcorr(weight);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with weight;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 29.
NOTE: PROCEDURE CORR used (Total process time):
```

```
      real time           0.00 seconds
      cpu time            0.00 seconds


56         %spcorr(height);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with height;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 30.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


57         %spcorr(bmi);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with bmi;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 31.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


58         %spcorr(whratio);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with whratio;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 32.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds


59         %spcorr(aaratio);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with aaratio;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 33.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.01 seconds
```

```
      cpu time            0.01 seconds


60         %spcorr(hdl_mm);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with hdl_mm;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 34.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


61         %spcorr(ldl_mm);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with ldl_mm;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 35.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


62         %spcorr(tchol_mm);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with tchol_mm;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 36.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds


63         %spcorr(lhratio);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with lhratio;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 37.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds
```

```
64         %spcorr(trig_mm);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with trig_mm;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 38.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


65         %spcorr(hlip);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with hlip;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 39.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds


66         %spcorr(sbp);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with sbp;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 40.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


67         %spcorr(dbp);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with dbp;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 41.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds
```

```
68         %spcorr(ht);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with ht;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 42.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


69         %spcorr(aer40);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with aer40;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 43.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds


70         %spcorr(COMINT6A); * combined IMT:  used in Table 2 *;
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with COMINT6A;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 44.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


71         %spcorr(aspirin);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with aspirin;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 45.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds
```

```
72         proc corr pearson spearman; var ctgt0 ctgt200 logct;
73           with meno; partial age0; where male=0; run;

NOTE: The PROCEDURE CORR printed page 46.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.11 seconds
      cpu time            0.01 seconds


74         %spcorr(partyii);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with partyii;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 47.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


75         %spcorr(hbael);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with hbael;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 48.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


76         %spcorr(dcct_hba);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with dcct_hba;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 49.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds


77         %spcorr(hbam999);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with hbam999;
MPRINT(SPCORR):   partial age0 male;
```

```
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 50.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


78         %spcorr(edicmhba);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with edicmhba;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 51.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


79         %spcorr(hba1c);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with hba1c;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 52.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds


80         %spcorr(wtmhba);
MPRINT(SPCORR):   proc corr spearman data=ediccard;
MPRINT(SPCORR):   var ctgt0 ctgt200 logct;
MPRINT(SPCORR):   with wtmhba;
MPRINT(SPCORR):   partial age0 male;
MPRINT(SPCORR):   run;

NOTE: The PROCEDURE CORR printed page 53.
NOTE: PROCEDURE CORR used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


81
82         * msg from DCC:
83         >Date: Fri, 19 Jun 2009 12:11:26 -0400
84         >Subject: RE: EDIC Cardio file -- question
85         >
86         >
```

```
87         >The variable of "Combined carotid IMT year 6" in Table 2 should be
88         >COMINT6A, instead of COMMYR6, which was used in Table 1.  I used both
89         >common and combined IMT for Tables 1& 2, but only one of the IMT
90         >variables made it in the final version of the paper. ...
91         >Table 1 kept common IMT and Table 2 kept the combined one.
92         >
93         *;
```

```
NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414
NOTE: The SAS System used:
      real time           3.95 seconds
      cpu time            0.68 seconds
```

Attachment 3

SAS 9.1 Output
for programming code submitted
for the replication of results
in Tables 1 and 2 in
Cleary PA, et.al. [Dec 2006]

The MEANS Procedure

SEX (FM)	TREATMENT GROUP	N Obs	Variable	Label	N
F	EXPERIMENTAL	297	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	297
			DCCT_FUY	DCCT FOLLOW-UP YEARS	297
			EDIC_FUY	EDIC FOLLOW-UP YEARS	297
			AER0	AER (MG/24HR) AT DCCT BASELINE	297
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	297
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	297
			DURN_YRS	DIABETES DURATION (YEARS)	297
			BMI	BODY MASS INDEX (KG/M2)	296
			WHRATIO	NATURAL WAIST TO HIP RATIO	293
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	297
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	297
			COMMYR6	COMMON CAROTID IMT YEAR 6	266
			COMINT6A	COMBINED CAROTID IMT YEAR 6	269
			tchol_mm		297
			hdl_mm		297
			ldl_mm		294
			LHRATIO	LDL/HDL RATIO	294
			trig_MM		297
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	297
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	297
			DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	297
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	296
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	297
			HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	297
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	297
	STANDARD	275	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	275
			DCCT_FUY	DCCT FOLLOW-UP YEARS	275
			EDIC_FUY	EDIC FOLLOW-UP YEARS	275
			AER0	AER (MG/24HR) AT DCCT BASELINE	275
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	275
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	275
			DURN_YRS	DIABETES DURATION (YEARS)	275
			BMI	BODY MASS INDEX (KG/M2)	267
			WHRATIO	NATURAL WAIST TO HIP RATIO	270
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	273
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	273
			COMMYR6	COMMON CAROTID IMT YEAR 6	253
			COMINT6A	COMBINED CAROTID IMT YEAR 6	255
			tchol_mm		275
			hdl_mm		275
			ldl_mm		273
			LHRATIO	LDL/HDL RATIO	273
			trig_MM		275
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	275
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	275

The MEANS Procedure

SEX (F M)	TREATMENT GROUP	N Obs	Variable	Label	N
F	STANDARD	275	DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	275
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	275
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	275
			HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	275
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	275
M	EXPERIMENTAL	300	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	300
			DCCT_FUY	DCCT FOLLOW-UP YEARS	300
			EDIC_FUY	EDIC FOLLOW-UP YEARS	300
			AER0	AER (MG/24HR) AT DCCT BASELINE	300
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	300
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	300
			DURN_YRS	DIABETES DURATION (YEARS)	300
			BMI	BODY MASS INDEX (KG/M2)	297
			WHRATIO	NATURAL WAIST TO HIP RATIO	296
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	300
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	300
			COMMYR6	COMMON CAROTID IMT YEAR 6	281
			COMINT6A	COMBINED CAROTID IMT YEAR 6	282
			tchol_mm		300
			hdl_mm		300
			ldl_mm		297
			LHRATIO	LDL/HDL RATIO	297
			trig_MM		300
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	300
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	300
			DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	300
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	300
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	300
			HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	300
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	300
	STANDARD	333	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	333
			DCCT_FUY	DCCT FOLLOW-UP YEARS	333
			EDIC_FUY	EDIC FOLLOW-UP YEARS	333
			AER0	AER (MG/24HR) AT DCCT BASELINE	333
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	333
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	333
			DURN_YRS	DIABETES DURATION (YEARS)	333
			BMI	BODY MASS INDEX (KG/M2)	332
			WHRATIO	NATURAL WAIST TO HIP RATIO	330
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	332
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	332
			COMMYR6	COMMON CAROTID IMT YEAR 6	294
			COMINT6A	COMBINED CAROTID IMT YEAR 6	297
			tchol_mm		332

The MEANS Procedure

SEX (F M)	TREATMENT GROUP	N Obs	Variable	Label	N
M	STANDARD	333	hdl_mm		332
			ldl_mm		332
			LHRATIO	LDL/HDL RATIO	332
			trig_MM		332
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	333
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	333
			DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	333
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	332
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	333
			HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	333
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	333

SEX (F M)	TREATMENT GROUP	N Obs	Variable	Label	Mean
F	EXPERIMENTAL	297	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	27.404
			DCCT_FUY	DCCT FOLLOW-UP YEARS	6.368
			EDIC_FUY	EDIC FOLLOW-UP YEARS	9.165
			AER0	AER (MG/24HR) AT DCCT BASELINE	16.155
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	69.108
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	43.148
			DURN_YRS	DIABETES DURATION (YEARS)	21.292
			BMI	BODY MASS INDEX (KG/M2)	27.452
			WHRATIO	NATURAL WAIST TO HIP RATIO	0.788
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	119.694
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	74.803
			COMMYR6	COMMON CAROTID IMT YEAR 6	0.597
			COMINT6A	COMBINED CAROTID IMT YEAR 6	-0.376
			tchol_mm		4.940
			hdl_mm		1.591
			ldl_mm		2.890
			LHRATIO	LDL/HDL RATIO	1.934
			trig_MM		0.953
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	35.530
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	9.157
			DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	7.290
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	7.305
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	8.075
			HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	8.006
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	7.764
	STANDARD	275	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	26.120
			DCCT_FUY	DCCT FOLLOW-UP YEARS	6.272
			EDIC_FUY	EDIC FOLLOW-UP YEARS	9.128

The MEANS Procedure

SEX (FM)	TREATMENT GROUP	N Obs	Variable	Label	Mean
F	STANDARD	275	AER0	AER (MG/24HR) AT DCCT BASELINE	15.102
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	71.164
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	41.858
			DURN_YRS	DIABETES DURATION (YEARS)	21.332
			BMI	BODY MASS INDEX (KG/M2)	26.665
			WHRATIO	NATURAL WAIST TO HIP RATIO	0.783
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	120.412
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	74.401
			COMMYR6	COMMON CAROTID IMT YEAR 6	0.592
			COMINT6A	COMBINED CAROTID IMT YEAR 6	-0.314
			tchol_mm		4.834
			hdl_mm		1.624
			ldl_mm		2.807
			LHRATIO	LDL/HDL RATIO	1.829
			trig_MM		0.890
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	84.363
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	9.123
			DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	9.136
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	9.126
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	8.124
			HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	7.922
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	8.529
M	EXPERIMENTAL	300	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	27.587
			DCCT_FUY	DCCT FOLLOW-UP YEARS	6.367
			EDIC_FUY	EDIC FOLLOW-UP YEARS	9.132
			AER0	AER (MG/24HR) AT DCCT BASELINE	16.810
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	70.317
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	43.343
			DURN_YRS	DIABETES DURATION (YEARS)	21.361
			BMI	BODY MASS INDEX (KG/M2)	28.048
			WHRATIO	NATURAL WAIST TO HIP RATIO	0.907
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	123.302
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	77.902
			COMMYR6	COMMON CAROTID IMT YEAR 6	0.632
			COMINT6A	COMBINED CAROTID IMT YEAR 6	0.283
			tchol_mm		4.810
			hdl_mm		1.307
			ldl_mm		2.984
			LHRATIO	LDL/HDL RATIO	2.435
			trig_MM		1.149
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	104.894
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	8.951
			DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	7.242
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	7.357
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	7.963

The MEANS Procedure

SEX (F M)	TREATMENT GROUP	N Obs	Variable	Label	Mean
M	EXPERIMENTAL	300	HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	7.890
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	7.677
	STANDARD	333	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	27.586
			DCCT_FUY	DCCT FOLLOW-UP YEARS	6.115
			EDIC_FUY	EDIC FOLLOW-UP YEARS	9.176
			AER0	AER (MG/24HR) AT DCCT BASELINE	15.005
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	59.856
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	43.237
			DURN_YRS	DIABETES DURATION (YEARS)	20.281
			BMI	BODY MASS INDEX (KG/M2)	27.799
			WHRATIO	NATURAL WAIST TO HIP RATIO	0.900
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	124.816
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	78.160
			COMMYR6	COMMON CAROTID IMT YEAR 6	0.653
			COMINT6A	COMBINED CAROTID IMT YEAR 6	0.499
			tchol_mm		4.734
			hdl_mm		1.321
			ldl_mm		2.922
			LHRATIO	LDL/HDL RATIO	2.330
			trig_MM		1.063
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	233.600
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	8.845
			DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	8.947
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	9.115
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	8.162
			HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	7.856
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	8.480

SEX (F M)	TREATMENT GROUP	N Obs	Variable	Label	Std Dev
F	EXPERIMENTAL	297	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	6.993
			DCCT_FUY	DCCT FOLLOW-UP YEARS	1.702
			EDIC_FUY	EDIC FOLLOW-UP YEARS	0.492
			AER0	AER (MG/24HR) AT DCCT BASELINE	20.195
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	50.443
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	6.980
			DURN_YRS	DIABETES DURATION (YEARS)	4.907
			BMI	BODY MASS INDEX (KG/M2)	4.806
			WHRATIO	NATURAL WAIST TO HIP RATIO	0.066
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	13.843
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	8.623
			COMMYR6	COMMON CAROTID IMT YEAR 6	0.106

The MEANS Procedure

SEX (FM)	TREATMENT GROUP	N Obs	Variable	Label	Std Dev
F	EXPERIMENTAL	297	COMINT6A	COMBINED CAROTID IMT YEAR 6	1.331
			tchol_mm		0.955
			hdl_mm		0.382
			ldl_mm		0.763
			LHRATIO	LDL/HDL RATIO	0.758
			trig_MM		0.638
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	194.344
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	1.599
			DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	0.863
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	0.967
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	1.160
			HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	1.355
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	0.938
	STANDARD	275	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	7.144
			DCCT_FUY	DCCT FOLLOW-UP YEARS	1.695
			EDIC_FUY	EDIC FOLLOW-UP YEARS	0.497
			AER0	AER (MG/24HR) AT DCCT BASELINE	13.321
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	51.470
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	7.119
			DURN_YRS	DIABETES DURATION (YEARS)	5.092
			BMI	BODY MASS INDEX (KG/M2)	4.484
			WHRATIO	NATURAL WAIST TO HIP RATIO	0.059
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	14.726
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	9.434
			COMMYR6	COMMON CAROTID IMT YEAR 6	0.103
			COMINT6A	COMBINED CAROTID IMT YEAR 6	1.427
			tchol_mm		0.842
			hdl_mm		0.378
			ldl_mm		0.689
			LHRATIO	LDL/HDL RATIO	0.649
			trig_MM		0.580
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	370.556
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	1.672
			DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	1.357
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	1.777
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	1.220
			HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	1.507
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	1.131
M	EXPERIMENTAL	300	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	6.860
			DCCT_FUY	DCCT FOLLOW-UP YEARS	1.708
			EDIC_FUY	EDIC FOLLOW-UP YEARS	0.498
			AER0	AER (MG/24HR) AT DCCT BASELINE	20.622
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	49.766
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	6.694

The MEANS Procedure

SEX (FM)	TREATMENT GROUP	N Obs	Variable	Label	Std Dev
M	EXPERIMENTAL	300	DURN_YRS	DIABETES DURATION (YEARS)	4.904
			BMI	BODY MASS INDEX (KG/M2)	4.383
			WHRATIO	NATURAL WAIST TO HIP RATIO	0.063
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	13.514
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	9.053
			COMMYR6	COMMON CAROTID IMT YEAR 6	0.102
			COMINT6A	COMBINED CAROTID IMT YEAR 6	1.590
			tchol_mm		0.898
			hdl_mm		0.352
			ldl_mm		0.762
			LHRATIO	LDL/HDL RATIO	0.902
			trig_MM		0.878
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	730.614
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	1.558
			DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	0.892
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	1.077
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	1.130
			HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	1.245
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	0.971
	STANDARD	333	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	6.639
			DCCT_FUY	DCCT FOLLOW-UP YEARS	1.623
			EDIC_FUY	EDIC FOLLOW-UP YEARS	0.493
			AER0	AER (MG/24HR) AT DCCT BASELINE	19.947
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	46.318
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	6.611
			DURN_YRS	DIABETES DURATION (YEARS)	4.604
			BMI	BODY MASS INDEX (KG/M2)	3.743
			WHRATIO	NATURAL WAIST TO HIP RATIO	0.061
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	14.658
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	9.502
			COMMYR6	COMMON CAROTID IMT YEAR 6	0.144
			COMINT6A	COMBINED CAROTID IMT YEAR 6	2.038
			tchol_mm		0.852
			hdl_mm		0.304
			ldl_mm		0.740
			LHRATIO	LDL/HDL RATIO	0.795
			trig_MM		0.611
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	862.994
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	1.562
			DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	1.147
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	1.305
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	1.102
			HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	1.317
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	1.005

The MEANS Procedure

SEX (FM)	TREATMENT GROUP	N Obs	Variable	Label	Minimum
F	EXPERIMENTAL	297	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	13.000
			DCCT_FUY	DCCT FOLLOW-UP YEARS	3.617
			EDIC_FUY	EDIC FOLLOW-UP YEARS	7.836
			AER0	AER (MG/24HR) AT DCCT BASELINE	1.440
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	9.000
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	27.000
			DURN_YRS	DIABETES DURATION (YEARS)	13.250
			BMI	BODY MASS INDEX (KG/M2)	17.598
			WHRATIO	NATURAL WAIST TO HIP RATIO	0.617
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	76.000
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	50.000
			COMMYR6	COMMON CAROTID IMT YEAR 6	0.368
			COMINT6A	COMBINED CAROTID IMT YEAR 6	-3.064
			tchol_mm		3.057
			hdl_mm		0.492
			ldl_mm		1.062
			LHRATIO	LDL/HDL RATIO	0.482
			trig_MM		0.260
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	1.440
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	6.560
			DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	5.498
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	4.600
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	5.711
			HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	5.300
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	5.946
	STANDARD	275	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	13.000
			DCCT_FUY	DCCT FOLLOW-UP YEARS	3.551
			EDIC_FUY	EDIC FOLLOW-UP YEARS	7.973
			AER0	AER (MG/24HR) AT DCCT BASELINE	1.440
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	9.000
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	26.000
			DURN_YRS	DIABETES DURATION (YEARS)	13.250
			BMI	BODY MASS INDEX (KG/M2)	18.431
			WHRATIO	NATURAL WAIST TO HIP RATIO	0.617
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	91.000
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	41.000
			COMMYR6	COMMON CAROTID IMT YEAR 6	0.393
			COMINT6A	COMBINED CAROTID IMT YEAR 6	-2.655
			tchol_mm		2.150
			hdl_mm		0.803
			ldl_mm		1.010
			LHRATIO	LDL/HDL RATIO	0.550
			trig_MM		0.260
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	1.440
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	6.580

The MEANS Procedure

SEX (FM)	TREATMENT GROUP	N Obs	Variable	Label	Minimum
F	STANDARD	275	DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	5.729
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	4.100
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	5.725
			HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	4.600
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	5.769
M	EXPERIMENTAL	300	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	13.000
			DCCT_FUY	DCCT FOLLOW-UP YEARS	3.491
			EDIC_FUY	EDIC FOLLOW-UP YEARS	7.844
			AER0	AER (MG/24HR) AT DCCT BASELINE	1.440
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	9.000
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	27.000
			DURN_YRS	DIABETES DURATION (YEARS)	13.250
			BMI	BODY MASS INDEX (KG/M2)	19.444
			WHRATIO	NATURAL WAIST TO HIP RATIO	0.770
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	95.000
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	50.000
			COMMYR6	COMMON CAROTID IMT YEAR 6	0.410
			COMINT6A	COMBINED CAROTID IMT YEAR 6	-2.529
			tchol_mm		2.772
			hdl_mm		0.622
			ldl_mm		0.984
			LHRATIO	LDL/HDL RATIO	0.644
			trig_MM		0.316
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	1.440
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	6.590
			DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	5.395
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	5.100
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	5.733
			HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	5.100
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	5.752
	STANDARD	333	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	13.000
			DCCT_FUY	DCCT FOLLOW-UP YEARS	2.543
			EDIC_FUY	EDIC FOLLOW-UP YEARS	7.855
			AER0	AER (MG/24HR) AT DCCT BASELINE	1.440
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	8.000
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	27.000
			DURN_YRS	DIABETES DURATION (YEARS)	13.417
			BMI	BODY MASS INDEX (KG/M2)	18.429
			WHRATIO	NATURAL WAIST TO HIP RATIO	0.756
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	91.000
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	44.000
			COMMYR6	COMMON CAROTID IMT YEAR 6	0.428
			COMINT6A	COMBINED CAROTID IMT YEAR 6	-2.292
			tchol_mm		2.332

The MEANS Procedure

SEX (FM)	TREATMENT GROUP	N Obs	Variable	Label	Minimum
M	STANDARD	333	hdl_mm		0.699
			ldl_mm		0.933
			LHRATIO	LDL/HDL RATIO	0.735
			trig_MM		0.226
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	1.440
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	6.600
			DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	6.284
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	5.900
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	5.490
			HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	4.500
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	5.713

SEX (FM)	TREATMENT GROUP	N Obs	Variable	Label	Maximum
F	EXPERIMENTAL	297	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	39.000
			DCCT_FUY	DCCT FOLLOW-UP YEARS	9.506
			EDIC_FUY	EDIC FOLLOW-UP YEARS	10.108
			AER0	AER (MG/24HR) AT DCCT BASELINE	151.200
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	179.000
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	58.000
			DURN_YRS	DIABETES DURATION (YEARS)	33.083
			BMI	BODY MASS INDEX (KG/M2)	42.352
			WHRATIO	NATURAL WAIST TO HIP RATIO	1.024
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	165.000
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	98.000
			COMMYR6	COMMON CAROTID IMT YEAR 6	1.513
			COMINT6A	COMBINED CAROTID IMT YEAR 6	8.995
			tchol_mm		10.699
			hdl_mm		2.694
			ldl_mm		7.617
			LHRATIO	LDL/HDL RATIO	5.895
			trig_MM		5.503
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	2865.600
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	15.420
			DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	11.143
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	11.100
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	11.950
			HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	14.500
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	10.907
	STANDARD	275	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	39.000
			DCCT_FUY	DCCT FOLLOW-UP YEARS	9.550
			EDIC_FUY	EDIC FOLLOW-UP YEARS	10.108

The MEANS Procedure

SEX (FM)	TREATMENT GROUP	N Obs	Variable	Label	Maximum
F	STANDARD	275	AER0	AER (MG/24HR) AT DCCT BASELINE	87.840
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	179.000
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	57.000
			DURN_YRS	DIABETES DURATION (YEARS)	33.417
			BMI	BODY MASS INDEX (KG/M2)	42.681
			WHRATIO	NATURAL WAIST TO HIP RATIO	0.971
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	180.000
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	110.000
			COMMYR6	COMMON CAROTID IMT YEAR 6	1.220
			COMINT6A	COMBINED CAROTID IMT YEAR 6	5.974
			tchol_mm		7.746
			hdl_mm		2.979
			ldl_mm		5.285
			LHRATIO	LDL/HDL RATIO	4.548
			trig_MM		5.175
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	4726.080
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	14.900
			DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	13.575
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	13.900
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	12.711
			HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	14.300
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	12.456
M	EXPERIMENTAL	300	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	39.000
			DCCT_FUY	DCCT FOLLOW-UP YEARS	9.448
			EDIC_FUY	EDIC FOLLOW-UP YEARS	10.125
			AER0	AER (MG/24HR) AT DCCT BASELINE	187.200
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	180.000
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	58.000
			DURN_YRS	DIABETES DURATION (YEARS)	33.000
			BMI	BODY MASS INDEX (KG/M2)	48.809
			WHRATIO	NATURAL WAIST TO HIP RATIO	1.151
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	187.000
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	116.000
			COMMYR6	COMMON CAROTID IMT YEAR 6	0.980
			COMINT6A	COMBINED CAROTID IMT YEAR 6	8.682
			tchol_mm		8.135
			hdl_mm		3.109
			ldl_mm		5.751
			LHRATIO	LDL/HDL RATIO	6.059
			trig_MM		7.175
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	11057.760
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	14.090
			DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	11.508
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	12.600
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	12.500

The MEANS Procedure

SEX (FM)	TREATMENT GROUP	N Obs	Variable	Label	Maximum
M	EXPERIMENTAL	300	HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	12.500
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	11.708
	STANDARD	333	AGE0	AGE AT ENTRY INTO DCCT (YEARS)	39.000
			DCCT_FUY	DCCT FOLLOW-UP YEARS	9.503
			EDIC_FUY	EDIC FOLLOW-UP YEARS	10.995
			AER0	AER (MG/24HR) AT DCCT BASELINE	286.560
			DURMN0	DIABETES DURATION (MONTHS) AT DCCT BASELINE	176.000
			ATT_AGE	ATTAINED AGE UP TO CT SCAN DATE (YEARS)	57.000
			DURN_YRS	DIABETES DURATION (YEARS)	33.667
			BMI	BODY MASS INDEX (KG/M2)	41.631
			WHRATIO	NATURAL WAIST TO HIP RATIO	1.118
			SBP	SYSTOLIC BLOOD PRESSURE (MM HG)	196.000
			DBP	DIASTOLIC BLOOD PRESSURE (MM HG)	119.000
			COMMYR6	COMMON CAROTID IMT YEAR 6	1.780
			COMINT6A	COMBINED CAROTID IMT YEAR 6	14.781
			tchol_mm		7.772
			hdl_mm		2.487
			ldl_mm		5.674
			LHRATIO	LDL/HDL RATIO	5.595
			trig_MM		3.853
			AER	AER (MG/24HR) AT VISIT PRIOR TO CT	7356.960
			HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY	13.800
			DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT	12.462
			HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT	14.000
			EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC	12.170
			HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT	13.300
			WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	12.293

---------- SEX (F M)=F ----------

The FREQ Procedure

Table of GROUP by RETBASE

GROUP(TREATMENT GROUP)
RETBASE(RETINATOPATHY AT DCCT BASELINE (PRIM,SCND))

Frequency Percent Row Pct Col Pct	PRIM	SCND	Total
EXPERIMENTAL	152 26.57 51.18 53.15	145 25.35 48.82 50.70	297 51.92
STANDARD	134 23.43 48.73 46.85	141 24.65 51.27 49.30	275 48.08
Total	286 50.00	286 50.00	572 100.00

Table of GROUP by SMOKING

GROUP(TREATMENT GROUP)
SMOKING(CURRENT SMOKER (0=NO 1=YES))

Frequency Percent Row Pct Col Pct	0	1	Total
EXPERIMENTAL	253 44.23 85.19 51.32	44 7.69 14.81 55.70	297 51.92
STANDARD	240 41.96 87.27 48.68	35 6.12 12.73 44.30	275 48.08
Total	493 86.19	79 13.81	572 100.00

---------- SEX (F M)=F ----------

The FREQ Procedure

Table of GROUP by AARLT09

GROUP(TREATMENT GROUP)
AARLT09(ANKLE ARM BLOOD PRESSURE RATIO < 0.9 (0=NO 1=YES))

Frequency Percent Row Pct Col Pct	0	1	Total
EXPERIMENTAL	254 44.72 85.52 51.52	43 7.57 14.48 57.33	297 52.29
STANDARD	239 42.08 88.19 48.48	32 5.63 11.81 42.67	271 47.71
Total	493 86.80	75 13.20	568 100.00

Frequency Missing = 4

Table of GROUP by HT

GROUP(TREATMENT GROUP)
HT(BP >=140/90 OR ANTIHYPERTENSIVES (0=NO 1=YES))

Frequency Percent Row Pct Col Pct	0	1	Total
EXPERIMENTAL	211 36.89 71.04 54.52	86 15.03 28.96 46.49	297 51.92
STANDARD	176 30.77 64.00 45.48	99 17.31 36.00 53.51	275 48.08
Total	387 67.66	185 32.34	572 100.00

---------- SEX (F M)=F ----------

The FREQ Procedure

Table of GROUP by ASPIRIN

GROUP(TREATMENT GROUP)
ASPIRIN(ASPIRIN (>= 14 TABLETS PER MONTH) (0=NO 1=YES))

Frequency Percent Row Pct Col Pct	0	1	Total
EXPERIMENTAL	233 40.73 78.45 52.95	64 11.19 21.55 48.48	297 51.92
STANDARD	207 36.19 75.27 47.05	68 11.89 24.73 51.52	275 48.08
Total	440 76.92	132 23.08	572 100.00

Table of GROUP by MENO

GROUP(TREATMENT GROUP)
MENO(MENOPAUSE (CEASED+PERM) (0=NO 1=YES))

Frequency Percent Row Pct Col Pct	0	1	Total
EXPERIMENTAL	217 38.41 73.56 50.35	78 13.81 26.44 58.21	295 52.21
STANDARD	214 37.88 79.26 49.65	56 9.91 20.74 41.79	270 47.79
Total	431 76.28	134 23.72	565 100.00

Frequency Missing = 7

---------- SEX (F M)=F ----------

The FREQ Procedure

Table of GROUP by PARTYII

GROUP(TREATMENT GROUP)
PARTYII(ONE OR BOTH PARENTS WITH TYPE II DIABETES (0=NO 1=YES))

Frequency / Percent / Row Pct / Col Pct	0	1	Total
EXPERIMENTAL	238	59	297
	41.61	10.31	51.92
	80.13	19.87	
	50.32	59.60	
STANDARD	235	40	275
	41.08	6.99	48.08
	85.45	14.55	
	49.68	40.40	
Total	473	99	572
	82.69	17.31	100.00

Table of GROUP by HLIP

GROUP(TREATMENT GROUP)
HLIP(LDL >=130 OR MEDICATION (0=NO 1=YES))

Frequency / Percent / Row Pct / Col Pct	0	1	Total
EXPERIMENTAL	207	90	297
	36.19	15.73	51.92
	69.70	30.30	
	51.49	52.94	
STANDARD	195	80	275
	34.09	13.99	48.08
	70.91	29.09	
	48.51	47.06	
Total	402	170	572
	70.28	29.72	100.00

---------- SEX (F M)=F ----------

The FREQ Procedure

Table of GROUP by AER40

GROUP(TREATMENT GROUP)
AER40(AER >40 AT VISIT PRIOR TO CT (0=NO 1=YES))

Frequency Percent Row Pct Col Pct	0	1	Total
EXPERIMENTAL	271 47.38 91.25 54.64	26 4.55 8.75 34.21	297 51.92
STANDARD	225 39.34 81.82 45.36	50 8.74 18.18 65.79	275 48.08
Total	496 86.71	76 13.29	572 100.00

---------- SEX (F M)=M ----------

The FREQ Procedure

Table of GROUP by RETBASE

GROUP(TREATMENT GROUP)
RETBASE(RETINATOPATHY AT DCCT BASELINE (PRIM,SCND))

Frequency Percent Row Pct Col Pct	PRIM	SCND	Total
EXPERIMENTAL	139 21.96 46.33 43.85	161 25.43 53.67 50.95	300 47.39
STANDARD	178 28.12 53.45 56.15	155 24.49 46.55 49.05	333 52.61
Total	317 50.08	316 49.92	633 100.00

Table of GROUP by SMOKING

GROUP(TREATMENT GROUP)
SMOKING(CURRENT SMOKER (0=NO 1=YES))

Frequency Percent Row Pct Col Pct	0	1	Total
EXPERIMENTAL	248 39.18 82.67 46.53	52 8.21 17.33 52.00	300 47.39
STANDARD	285 45.02 85.59 53.47	48 7.58 14.41 48.00	333 52.61
Total	533 84.20	100 15.80	633 100.00

---------- SEX (F M)=M ----------

The FREQ Procedure

Table of GROUP by AARLT09

GROUP(TREATMENT GROUP)
AARLT09(ANKLE ARM BLOOD PRESSURE RATIO < 0.9 (0=NO 1=YES))

Frequency Percent Row Pct Col Pct	0	1	Total
EXPERIMENTAL	277 43.90 92.64 47.51	22 3.49 7.36 45.83	299 47.39
STANDARD	306 48.49 92.17 52.49	26 4.12 7.83 54.17	332 52.61
Total	583 92.39	48 7.61	631 100.00

Frequency Missing = 2

Table of GROUP by HT

GROUP(TREATMENT GROUP)
HT(BP >=140/90 OR ANTIHYPERTENSIVES (0=NO 1=YES))

Frequency Percent Row Pct Col Pct	0	1	Total
EXPERIMENTAL	193 30.49 64.33 51.88	107 16.90 35.67 41.00	300 47.39
STANDARD	179 28.28 53.75 48.12	154 24.33 46.25 59.00	333 52.61
Total	372 58.77	261 41.23	633 100.00

---------- SEX (F M)=M ----------

The FREQ Procedure

Table of GROUP by ASPIRIN

GROUP(TREATMENT GROUP)
ASPIRIN(ASPIRIN (>= 14 TABLETS PER MONTH) (0=NO 1=YES))

Frequency Percent Row Pct Col Pct	0	1	Total
EXPERIMENTAL	222 35.07 74.00 50.00	78 12.32 26.00 41.27	300 47.39
STANDARD	222 35.07 66.67 50.00	111 17.54 33.33 58.73	333 52.61
Total	444 70.14	189 29.86	633 100.00

For GROUP * MENO
all data are missing since all
the levels of variable MENO are missing.

---------- SEX (F M)=M ----------

The FREQ Procedure

Table of GROUP by PARTYII

GROUP(TREATMENT GROUP)
PARTYII(ONE OR BOTH PARENTS WITH TYPE II DIABETES (0=NO 1=YES))

Frequency / Percent / Row Pct / Col Pct	0	1	Total
EXPERIMENTAL	248	52	300
	39.18	8.21	47.39
	82.67	17.33	
	47.97	44.83	
STANDARD	269	64	333
	42.50	10.11	52.61
	80.78	19.22	
	52.03	55.17	
Total	517	116	633
	81.67	18.33	100.00

Table of GROUP by HLIP

GROUP(TREATMENT GROUP)
HLIP(LDL >=130 OR MEDICATION (0=NO 1=YES))

Frequency / Percent / Row Pct / Col Pct	0	1	Total
EXPERIMENTAL	168	132	300
	26.54	20.85	47.39
	56.00	44.00	
	45.53	50.00	
STANDARD	201	132	333
	31.75	20.85	52.61
	60.36	39.64	
	54.47	50.00	
Total	369	264	633
	58.29	41.71	100.00

---------- SEX (F M)=M ----------

The FREQ Procedure

Table of GROUP by AER40

GROUP(TREATMENT GROUP)
AER40(AER >40 AT VISIT PRIOR TO CT (0=NO 1=YES))

Frequency Percent Row Pct Col Pct	0	1	Total
EXPERIMENTAL	262 41.39 87.33 51.37	38 6.00 12.67 30.89	300 47.39
STANDARD	248 39.18 74.47 48.63	85 13.43 25.53 69.11	333 52.61
Total	510 80.57	123 19.43	633 100.00

The CORR Procedure

```
1 Partial Variables:    male
1 With    Variables:    ATT_AGE
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
male	1205	0.52531	0.49957	1.00000	0	1.00000
ATT_AGE	1205	42.92697	6.85793	43.00000	26.00000	58.00000
CTGT0	1205	0.31037	0.46284	0	0	1.00000
CTGT200	1205	0.08465	0.27847	0	0	1.00000
LOGCT	1205	1.27255	2.14733	0	0	8.12297

Simple Statistics

Variable	Partial Variance	Partial Std Dev	Label
male			
ATT_AGE	46.92620	6.85027	ATTAINED AGE UP TO CT SCAN DATE (YEARS)
CTGT0	0.20426	0.45195	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	0.07646	0.27651	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	4.40714	2.09932	LOG CAC FOR TOBIT MODEL

Pearson Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
ATT_AGE	0.31530	0.24661	0.33157
ATTAINED AGE UP TO CT SCAN DATE (YEARS)	<.0001	<.0001	<.0001

Spearman Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
ATT_AGE	0.31926	0.24844	0.33677
ATTAINED AGE UP TO CT SCAN DATE (YEARS)	<.0001	<.0001	<.0001

The CORR Procedure

```
1 Partial Variables:    AGE0
1 With    Variables:    male
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1205	27.20664	6.91630	27.00000	13.00000	39.00000
male	1205	0.52531	0.49957	1.00000	0	1.00000
CTGT0	1205	0.31037	0.46284	0	0	1.00000
CTGT200	1205	0.08465	0.27847	0	0	1.00000
LOGCT	1205	1.27255	2.14733	0	0	8.12297

Simple Statistics

Variable	Partial Variance	Partial Std Dev	Label
AGE0			AGE AT ENTRY INTO DCCT (YEARS)
male	0.24894	0.49894	
CTGT0	0.19760	0.44453	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	0.07393	0.27190	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	4.22076	2.05445	LOG CAC FOR TOBIT MODEL

Pearson Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
male	0.21001	0.11221	0.20454
	<.0001	<.0001	<.0001

Spearman Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
male	0.20914	0.11128	0.21226
	<.0001	0.0001	<.0001

The CORR Procedure

```
1 Partial Variables:    male
1 With    Variables:    AGE0
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
male	1205	0.52531	0.49957	1.00000	0	1.00000
AGE0	1205	27.20664	6.91630	27.00000	13.00000	39.00000
CTGT0	1205	0.31037	0.46284	0	0	1.00000
CTGT200	1205	0.08465	0.27847	0	0	1.00000
LOGCT	1205	1.27255	2.14733	0	0	8.12297

Simple Statistics

Variable	Partial Variance	Partial Std Dev	Label
male			
AGE0	47.71533	6.90763	AGE AT ENTRY INTO DCCT (YEARS)
CTGT0	0.20426	0.45195	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	0.07646	0.27651	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	4.40714	2.09932	LOG CAC FOR TOBIT MODEL

Pearson Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
AGE0	0.27434	0.21264	0.28698
AGE AT ENTRY INTO DCCT (YEARS)	<.0001	<.0001	<.0001

Spearman Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
AGE0	0.28040	0.21901	0.29558
AGE AT ENTRY INTO DCCT (YEARS)	<.0001	<.0001	<.0001

The CORR Procedure

```
2 Partial Variables:    AGE0     male
6 With    Variables:    SMOKING  retprim  AER0     DURMN0   DCCT_FUY EDIC_FUY
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1205	27.20664	6.91630	27.00000	13.00000	39.00000
male	1205	0.52531	0.49957	1.00000	0	1.00000
SMOKING	1205	0.14855	0.35579	0	0	1.00000
retprim	1205	0.50041	0.50021	1.00000	0	1.00000
AER0	1205	15.75993	18.88202	11.52000	1.44000	286.56000
DURMN0	1205	67.32116	49.56680	50.00000	8.00000	180.00000
DCCT_FUY	1205	6.27614	1.68195	5.97673	2.54346	9.54962
EDIC_FUY	1205	9.15148	0.49477	9.22656	7.83573	10.99521
CTGT0	1205	0.31037	0.46284	0	0	1.00000
CTGT200	1205	0.08465	0.27847	0	0	1.00000
LOGCT	1205	1.27255	2.14733	0	0	8.12297

Simple Statistics

Variable	Partial Variance	Partial Std Dev	Label
AGE0			AGE AT ENTRY INTO DCCT (YEARS)
male			
SMOKING	0.12669	0.35594	CURRENT SMOKER (0=NO 1=YES)
retprim	0.25021	0.50021	
AER0	352.25487	18.76845	AER (MG/24HR) AT DCCT BASELINE
DURMN0	2451	49.51040	DIABETES DURATION (MONTHS) AT DCCT BASELINE
DCCT_FUY	2.74198	1.65589	DCCT FOLLOW-UP YEARS
EDIC_FUY	0.24515	0.49513	EDIC FOLLOW-UP YEARS
CTGT0	0.18904	0.43479	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	0.07306	0.27030	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	4.04755	2.01185	LOG CAC FOR TOBIT MODEL

The CORR Procedure

Pearson Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
SMOKING	0.13222	0.12634	0.13794
CURRENT SMOKER (0=NO 1=YES)	<.0001	<.0001	<.0001
retprim	-0.10777	-0.08382	-0.12110
	0.0002	0.0036	<.0001
AER0	0.11482	0.06704	0.12317
AER (MG/24HR) AT DCCT BASELINE	<.0001	0.0201	<.0001
DURMN0	0.10967	0.08261	0.12320
DIABETES DURATION (MONTHS) AT DCCT BASELINE	0.0001	0.0041	<.0001
DCCT_FUY	0.20485	0.15708	0.21439
DCCT FOLLOW-UP YEARS	<.0001	<.0001	<.0001
EDIC_FUY	0.01725	0.03464	0.05052
EDIC FOLLOW-UP YEARS	0.5500	0.2300	0.0798

Spearman Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
SMOKING	0.12952	0.12428	0.13642
CURRENT SMOKER (0=NO 1=YES)	<.0001	<.0001	<.0001
retprim	-0.11174	-0.08677	-0.12208
	0.0001	0.0026	<.0001
AER0	0.08519	0.07217	0.09302
AER (MG/24HR) AT DCCT BASELINE	0.0031	0.0123	0.0012
DURMN0	0.10805	0.07779	0.11810
DIABETES DURATION (MONTHS) AT DCCT BASELINE	0.0002	0.0069	<.0001
DCCT_FUY	0.19243	0.14373	0.20295
DCCT FOLLOW-UP YEARS	<.0001	<.0001	<.0001
EDIC_FUY	0.01140	0.03101	0.02521
EDIC FOLLOW-UP YEARS	0.6927	0.2824	0.3822

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    DURN_YRS
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1205	27.20664	6.91630	27.00000	13.00000	39.00000
male	1205	0.52531	0.49957	1.00000	0	1.00000
DURN_YRS	1205	21.03893	4.88441	19.91667	13.25000	33.66667
CTGT0	1205	0.31037	0.46284	0	0	1.00000
CTGT200	1205	0.08465	0.27847	0	0	1.00000
LOGCT	1205	1.27255	2.14733	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
DURN_YRS	DIABETES DURATION (YEARS)
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
DURN_YRS	0.15889	0.12539	0.17330
DIABETES DURATION (YEARS)	<.0001	<.0001	<.0001

The CORR Procedure

2 Partial Variables: AGE0 male
1 With Variables: WEIGHT
3 Variables: CTGT0 CTGT200 LOGCT

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1199	27.20767	6.92804	27.00000	13.00000	39.00000
male	1199	0.52627	0.49952	1.00000	0	1.00000
WEIGHT	1199	82.12609	16.54279	81.00000	44.25000	173.10000
CTGT0	1199	0.30942	0.46245	0	0	1.00000
CTGT200	1199	0.08507	0.27910	0	0	1.00000
LOGCT	1199	1.27079	2.14797	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
WEIGHT	WEIGHT (KG)
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1199
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
WEIGHT	0.01899	-0.02314	0.00932
WEIGHT (KG)	0.5116	0.4239	0.7474

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    HEIGHT
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1193	27.17770	6.92180	27.00000	13.00000	39.00000
male	1193	0.52724	0.49947	1.00000	0	1.00000
HEIGHT	1193	172.21127	9.52191	172.00000	142.15000	201.30000
CTGT0	1193	0.30930	0.46240	0	0	1.00000
CTGT200	1193	0.08466	0.27849	0	0	1.00000
LOGCT	1193	1.26757	2.14210	0	0	8.02890

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
HEIGHT	HEIGHT (CM)
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1193
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
HEIGHT	-0.03842	-0.08156	-0.05687
HEIGHT (CM)	0.1851	0.0049	0.0497

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    BMI
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1192	27.18372	6.92158	27.00000	13.00000	39.00000
male	1192	0.52768	0.49944	1.00000	0	1.00000
BMI	1192	27.52062	4.37447	27.01912	17.59805	48.80928
CTGT0	1192	0.30956	0.46251	0	0	1.00000
CTGT200	1192	0.08473	0.27860	0	0	1.00000
LOGCT	1192	1.26863	2.14269	0	0	8.02890

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
BMI	BODY MASS INDEX (KG/M2)
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1192
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
BMI	0.03446	0.01876	0.03607
BODY MASS INDEX (KG/M2)	0.2348	0.5179	0.2138

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    WHRATIO
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1189	27.18419	6.92958	27.00000	13.00000	39.00000
male	1189	0.52649	0.49951	1.00000	0	1.00000
WHRATIO	1189	0.84759	0.08574	0.84653	0.61664	1.15142
CTGT0	1189	0.30950	0.46248	0	0	1.00000
CTGT200	1189	0.08410	0.27766	0	0	1.00000
LOGCT	1189	1.26637	2.13911	0	0	8.02890

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
WHRATIO	NATURAL WAIST TO HIP RATIO
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1189
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
WHRATIO	0.13726	0.07910	0.13848
NATURAL WAIST TO HIP RATIO	<.0001	0.0064	<.0001

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    AARATIO
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1199	27.20267	6.92783	27.00000	13.00000	39.00000
male	1199	0.52627	0.49952	1.00000	0	1.00000
AARATIO	1199	1.05167	0.13898	1.05263	0.00826	1.63380
CTGT0	1199	0.31026	0.46279	0	0	1.00000
CTGT200	1199	0.08507	0.27910	0	0	1.00000
LOGCT	1199	1.27325	2.14821	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
AARATIO	ANKLE TO ARM BLOOD PRESSURE RATIO (MM HG)
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1199
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
AARATIO	-0.04440	-0.09057	-0.06543
ANKLE TO ARM BLOOD PRESSURE RATIO (MM HG)	0.1247	0.0017	0.0236

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    hdl_mm
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1204	27.20764	6.91908	27.00000	13.00000	39.00000
male	1204	0.52492	0.49959	1.00000	0	1.00000
hdl_mm	1204	1.45342	0.38213	1.39896	0.49223	3.10881
CTGT0	1204	0.30980	0.46260	0	0	1.00000
CTGT200	1204	0.08472	0.27858	0	0	1.00000
LOGCT	1204	1.27241	2.14822	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
hdl_mm	
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1204
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
hdl_mm	-0.09548	-0.05509	-0.09536
	0.0009	0.0562	0.0009

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    ldl_mm
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1196	27.22910	6.90820	27.00000	13.00000	39.00000
male	1196	0.52592	0.49954	1.00000	0	1.00000
ldl_mm	1196	2.90357	0.74196	2.84974	0.93264	7.61658
CTGT0	1196	0.30853	0.46208	0	0	1.00000
CTGT200	1196	0.08445	0.27818	0	0	1.00000
LOGCT	1196	1.26654	2.14525	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
ldl_mm	
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1196
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
ldl_mm	0.01798	0.00767	0.01774
	0.5348	0.7912	0.5402

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    tchol_mm
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1204	27.20764	6.91908	27.00000	13.00000	39.00000
male	1204	0.52492	0.49959	1.00000	0	1.00000
tchol_mm	1204	4.82668	0.88952	4.76684	2.15026	10.69948
CTGT0	1204	0.30980	0.46260	0	0	1.00000
CTGT200	1204	0.08472	0.27858	0	0	1.00000
LOGCT	1204	1.27241	2.14822	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
tchol_mm	
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1204
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
tchol_mm	0.00068	0.01401	0.00378
	0.9813	0.6274	0.8958

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    LHRATIO
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1196	27.22910	6.90820	27.00000	13.00000	39.00000
male	1196	0.52592	0.49954	1.00000	0	1.00000
LHRATIO	1196	2.14434	0.82300	2.01906	0.48235	6.05882
CTGT0	1196	0.30853	0.46208	0	0	1.00000
CTGT200	1196	0.08445	0.27818	0	0	1.00000
LOGCT	1196	1.26654	2.14525	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
LHRATIO	LDL/HDL RATIO
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1196
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
LHRATIO	0.07790	0.02956	0.07395
LDL/HDL RATIO	0.0071	0.3074	0.0106

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    trig_MM
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1204	27.20764	6.91908	27.00000	13.00000	39.00000
male	1204	0.52492	0.49959	1.00000	0	1.00000
trig_MM	1204	1.01784	0.69331	0.82486	0.22599	7.17514
CTGT0	1204	0.30980	0.46260	0	0	1.00000
CTGT200	1204	0.08472	0.27858	0	0	1.00000
LOGCT	1204	1.27241	2.14822	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
trig_MM	
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1204
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
trig_MM	0.07004	0.07197	0.08046
	0.0152	0.0126	0.0052

The CORR Procedure

2 Partial Variables: AGE0 male
1 With Variables: HLIP
3 Variables: CTGT0 CTGT200 LOGCT

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1205	27.20664	6.91630	27.00000	13.00000	39.00000
male	1205	0.52531	0.49957	1.00000	0	1.00000
HLIP	1205	0.36017	0.48025	0	0	1.00000
CTGT0	1205	0.31037	0.46284	0	0	1.00000
CTGT200	1205	0.08465	0.27847	0	0	1.00000
LOGCT	1205	1.27255	2.14733	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
HLIP	LDL >=130 OR MEDICATION (0=NO 1=YES)
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
HLIP	0.12836	0.11371	0.14151
LDL >=130 OR MEDICATION (0=NO 1=YES)	<.0001	<.0001	<.0001

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    SBP
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1202	27.20799	6.92436	27.00000	13.00000	39.00000
male	1202	0.52579	0.49954	1.00000	0	1.00000
SBP	1202	122.17221	14.33518	121.00000	76.00000	196.00000
CTGT0	1202	0.31032	0.46282	0	0	1.00000
CTGT200	1202	0.08486	0.27879	0	0	1.00000
LOGCT	1202	1.27452	2.14938	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
SBP	SYSTOLIC BLOOD PRESSURE (MM HG)
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1202
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
SBP	0.05966	0.06759	0.06730
SYSTOLIC BLOOD PRESSURE (MM HG)	0.0388	0.0192	0.0197

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    DBP
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1202	27.20799	6.92436	27.00000	13.00000	39.00000
male	1202	0.52579	0.49954	1.00000	0	1.00000
DBP	1202	76.41223	9.31297	77.00000	41.00000	119.00000
CTGT0	1202	0.31032	0.46282	0	0	1.00000
CTGT200	1202	0.08486	0.27879	0	0	1.00000
LOGCT	1202	1.27452	2.14938	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
DBP	DIASTOLIC BLOOD PRESSURE (MM HG)
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1202
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
DBP	-0.03052	0.01935	-0.02428
DIASTOLIC BLOOD PRESSURE (MM HG)	0.2908	0.5030	0.4008

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    HT
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1205	27.20664	6.91630	27.00000	13.00000	39.00000
male	1205	0.52531	0.49957	1.00000	0	1.00000
HT	1205	0.37012	0.48304	0	0	1.00000
CTGT0	1205	0.31037	0.46284	0	0	1.00000
CTGT200	1205	0.08465	0.27847	0	0	1.00000
LOGCT	1205	1.27255	2.14733	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
HT	BP >=140/90 OR ANTIHYPERTENSIVES (0=NO 1=YES)
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
HT	0.12043	0.11724	0.14544
BP >=140/90 OR ANTIHYPERTENSIVES (0=NO 1=YES)	<.0001	<.0001	<.0001

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    AER40
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1205	27.20664	6.91630	27.00000	13.00000	39.00000
male	1205	0.52531	0.49957	1.00000	0	1.00000
AER40	1205	0.16515	0.37147	0	0	1.00000
CTGT0	1205	0.31037	0.46284	0	0	1.00000
CTGT200	1205	0.08465	0.27847	0	0	1.00000
LOGCT	1205	1.27255	2.14733	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
AER40	AER >40 AT VISIT PRIOR TO CT (0=NO 1=YES)
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
AER40	0.08558	0.11973	0.11023
AER >40 AT VISIT PRIOR TO CT (0=NO 1=YES)	0.0030	<.0001	0.0001

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    COMINT6A
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1103	27.24841	6.87059	28.00000	13.00000	39.00000
male	1103	0.52493	0.49960	1.00000	0	1.00000
COMINT6A	1103	0.04261	1.67423	-0.35349	-3.06444	14.78076
CTGT0	1103	0.31097	0.46310	0	0	1.00000
CTGT200	1103	0.07978	0.27108	0	0	1.00000
LOGCT	1103	1.24932	2.11552	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
COMINT6A	COMBINED CAROTID IMT YEAR 6
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1103
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
COMINT6A	0.16145	0.15823	0.17082
COMBINED CAROTID IMT YEAR 6	<.0001	<.0001	<.0001

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    ASPIRIN
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1205	27.20664	6.91630	27.00000	13.00000	39.00000
male	1205	0.52531	0.49957	1.00000	0	1.00000
ASPIRIN	1205	0.26639	0.44225	0	0	1.00000
CTGT0	1205	0.31037	0.46284	0	0	1.00000
CTGT200	1205	0.08465	0.27847	0	0	1.00000
LOGCT	1205	1.27255	2.14733	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
ASPIRIN	ASPIRIN (>= 14 TABLETS PER MONTH) (0=NO 1=YES)
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
ASPIRIN	0.11301	0.10692	0.12984
ASPIRIN (>= 14 TABLETS PER MONTH) (0=NO 1=YES)	<.0001	0.0002	<.0001

The CORR Procedure

```
1 Partial Variables:    AGE0
1 With    Variables:    MENO
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	565	26.83186	7.09423	27.00000	13.00000	39.00000
MENO	565	0.23717	0.42572	0	0	1.00000
CTGT0	565	0.20531	0.40429	0	0	1.00000
CTGT200	565	0.04956	0.21722	0	0	1.00000
LOGCT	565	0.80013	1.76852	0	0	7.83016

Simple Statistics

Variable	Partial Variance	Partial Std Dev	Label
AGE0			AGE AT ENTRY INTO DCCT (YEARS)
MENO	0.13338	0.36521	MENOPAUSE (CEASED+PERM) (0=NO 1=YES)
CTGT0	0.15805	0.39755	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	0.04649	0.21561	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	3.02683	1.73978	LOG CAC FOR TOBIT MODEL

Pearson Partial Correlation Coefficients, N = 565
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
MENO	0.01428	0.06555	0.03169
MENOPAUSE (CEASED+PERM) (0=NO 1=YES)	0.7350	0.1200	0.4525

Spearman Partial Correlation Coefficients, N = 565
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
MENO	0.01088	0.06228	0.01602
MENOPAUSE (CEASED+PERM) (0=NO 1=YES)	0.7966	0.1396	0.7042

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    PARTYII
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1205	27.20664	6.91630	27.00000	13.00000	39.00000
male	1205	0.52531	0.49957	1.00000	0	1.00000
PARTYII	1205	0.17842	0.38303	0	0	1.00000
CTGT0	1205	0.31037	0.46284	0	0	1.00000
CTGT200	1205	0.08465	0.27847	0	0	1.00000
LOGCT	1205	1.27255	2.14733	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
PARTYII	ONE OR BOTH PARENTS WITH TYPE II DIABETES (0=NO 1=YES)
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
PARTYII	-0.00433	0.08043	0.00789
ONE OR BOTH PARENTS WITH TYPE II DIABETES (0=NO 1=YES)	0.8807	0.0053	0.7845

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    HBAEL
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1205	27.20664	6.91630	27.00000	13.00000	39.00000
male	1205	0.52531	0.49957	1.00000	0	1.00000
HBAEL	1205	9.01177	1.59888	8.76000	6.56000	15.42000
CTGT0	1205	0.31037	0.46284	0	0	1.00000
CTGT200	1205	0.08465	0.27847	0	0	1.00000
LOGCT	1205	1.27255	2.14733	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
HBAEL	HEMOGLOBIN A1C AT DCCT ELIGIBILITY
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
HBAEL	0.11798	0.03379	0.12022
HEMOGLOBIN A1C AT DCCT ELIGIBILITY	<.0001	0.2415	<.0001

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    DCCT_HBA
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1205	27.20664	6.91630	27.00000	13.00000	39.00000
male	1205	0.52531	0.49957	1.00000	0	1.00000
DCCT_HBA	1205	8.15736	1.39590	7.89000	5.39500	13.57500
CTGT0	1205	0.31037	0.46284	0	0	1.00000
CTGT200	1205	0.08465	0.27847	0	0	1.00000
LOGCT	1205	1.27255	2.14733	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
DCCT_HBA	HEMOGLOBIN A1C MEAN DURING DCCT
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
DCCT_HBA	0.09494	0.10080	0.10569
HEMOGLOBIN A1C MEAN DURING DCCT	0.0010	0.0005	0.0002

The CORR Procedure

2 Partial Variables: AGE0 male
1 With Variables: HBAM999
3 Variables: CTGT0 CTGT200 LOGCT

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1203	27.20532	6.92149	27.00000	13.00000	39.00000
male	1203	0.52535	0.49956	1.00000	0	1.00000
HBAM999	1203	8.23383	1.58382	8.00000	4.10000	14.00000
CTGT0	1203	0.31006	0.46271	0	0	1.00000
CTGT200	1203	0.08479	0.27868	0	0	1.00000
LOGCT	1203	1.27042	2.14596	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
HBAM999	HEMOGLOBIN A1C AT DCCT CLOSE-OUT
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1203
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
HBAM999	0.08253	0.07621	0.09013
HEMOGLOBIN A1C AT DCCT CLOSE-OUT	0.0042	0.0082	0.0018

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    EDICMHBA
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1205	27.20664	6.91630	27.00000	13.00000	39.00000
male	1205	0.52531	0.49957	1.00000	0	1.00000
EDICMHBA	1205	8.08229	1.15213	7.92000	5.49000	12.71111
CTGT0	1205	0.31037	0.46284	0	0	1.00000
CTGT200	1205	0.08465	0.27847	0	0	1.00000
LOGCT	1205	1.27255	2.14733	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
EDICMHBA	HEMOGLOBIN A1C MEAN DURING EDIC
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
EDICMHBA	0.08715	0.04107	0.09203
HEMOGLOBIN A1C MEAN DURING EDIC	0.0025	0.1546	0.0014

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    HBA1C
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1205	27.20664	6.91630	27.00000	13.00000	39.00000
male	1205	0.52531	0.49957	1.00000	0	1.00000
HBA1C	1205	7.91643	1.35432	7.80000	4.50000	14.50000
CTGT0	1205	0.31037	0.46284	0	0	1.00000
CTGT200	1205	0.08465	0.27847	0	0	1.00000
LOGCT	1205	1.27255	2.14733	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
HBA1C	HEMOGLOBIN A1C AT VISIT PRIOR TO CT
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
HBA1C	0.07429	0.06646	0.08408
HEMOGLOBIN A1C AT VISIT PRIOR TO CT	0.0099	0.0212	0.0035

The CORR Procedure

```
2 Partial Variables:    AGE0     male
1 With    Variables:    WTMHBA
3         Variables:    CTGT0    CTGT200  LOGCT
```

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum
AGE0	1205	27.20664	6.91630	27.00000	13.00000	39.00000
male	1205	0.52531	0.49957	1.00000	0	1.00000
WTMHBA	1205	8.11475	1.08370	7.98408	5.71255	12.45611
CTGT0	1205	0.31037	0.46284	0	0	1.00000
CTGT200	1205	0.08465	0.27847	0	0	1.00000
LOGCT	1205	1.27255	2.14733	0	0	8.12297

Simple Statistics

Variable	Label
AGE0	AGE AT ENTRY INTO DCCT (YEARS)
male	
WTMHBA	HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC
CTGT0	CAC CALCIUM DEPOSIT > 0 (0=NO 1=YES)
CTGT200	CAC CALCIUM DEPOSIT > 200 (0=NO 1=YES)
LOGCT	LOG CAC FOR TOBIT MODEL

Spearman Partial Correlation Coefficients, N = 1205
Prob > |r| under H0: Partial Rho=0

	CTGT0	CTGT200	LOGCT
WTMHBA	0.10329	0.07798	0.11230
HEMOGLOBIN A1C WEIGHTED MEAN DURING DCCT EDIC	0.0003	0.0068	<.0001