

CODING MANUAL FOR OFFSPRING DIABETES DATASET

***** LDIA1_7.SSD01 *****

(n = 5124)

PREPARED OCTOBER 2005

SUMMARY OF DATA SET VARIABLES

VARIABLE -----	DESCRIPTION -----
RANDOMID	RANDOM ID
DIAB1 - DIAB7	DIABETES MELLITUS STATUS AT EXAMS 1 THROUGH 7
F_GLUC3 - F_GLUC7	FASTING BLOOD GLUCOSE AT EXAMS 3 THROUGH 7
DMRX1 - DMRX7	CURRENT TREATMENT FOR DIABETES MELLITUS AT EXAM 1 THROUGH EXAM 7

DEFINITIONS AND NOTES

DEFINITION:

If fasting glucose and treatment status were both present (at exam N) then the following definition was used to determine diabetic status:

If F_GLUCN >= 126 or DMRXN = 1 then DIABN = 1

(If F_GLUCN < 126 and DMRXN = 0 then DIABN = 0)

If either fasting glucose or treatment status were unavailable an algorithm was developed to determine diabetic status. This algorithm appears at the end of this manual. If the subject did not attend the exam or diabetic status could not be determined then DIABN was set to missing.

NOTES:

1. Diabetic status is calculated at each exam.
Diabetic status may change from exam to exam.
2. Only fasting glucose measurements were used
(non-fasting measurements were not used).
3. Treatment is "current use" only. Treatment consists of oral hypoglycemic or insulin use.
4. The fasting status at Offspring Exam 1 and Exam 2 was found to be uncertain. To ascertain diabetic status at these exams, an algorithm was used which included chart review.
(for algorithm see end of this manual)

VARIABLE INFORMATION

VARIABLE	SOURCE	RANGE	DESCRIPTION
-----	-----	-----	-----
diab1	calculated	0 - 1	Diabetes Mellitus Status at Exam 1
		0	No 4786
		1	Yes 95
		.	Unknown/did not attend 243
diab2	calculated	0 - 1	Diabetes Mellitus Status at Exam 2
		0	No 3594
		1	Yes 102
		.	Unknown/did not attend 1428
diab3	calculated	0 - 1	Diabetes Mellitus Status at Exam 3
		0	No 3592
		1	Yes 150
		.	Unknown/did not attend 1382
diab4	calculated	0 - 1	Diabetes Mellitus Status at Exam 4
		0	No 3714
		1	Yes 210
		.	Unknown/did not attend 1200
diab5	calculated	0 - 1	Diabetes Mellitus Status at Exam 5
		0	No 3484
		1	Yes 285
		.	Unknown/did not attend 1355
diab6	calculated	0 - 1	Diabetes Mellitus Status at Exam 6
		0	No 3128
		1	Yes 357
		.	Unknown/did not attend 1639
diab7	calculated	0 - 1	Diabetes Mellitus Status at Exam 7
		0	No 2949
		1	Yes 395
		.	Unknown/did not attend 1780

VARIABLE	SOURCE	RANGE	DESCRIPTION
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f_gluc3	c434 (Exam3)	47 - 387	Fasting Blood Glucose at Exam 3
			Known 3622
			. Unknown/did not attend 1502
f_gluc4	d452 (Exam4)	42 - 386	Fasting Blood Glucose at Exam 4
			Known 3734
			. Unknown/did not attend 1390
f_gluc5	e671 (Exam5)	48 - 412	Fasting Blood Glucose at Exam 5
			Known 3707
			. Unknown/did not attend 1417
f_gluc6	f724 (Exam6)	64 - 362	Fasting Blood Glucose at Exam 6
			Known 3405
			. Unknown/did not attend 1719
f_gluc7	g705 (Exam7)	61 - 367	Fasting Blood Glucose at Exam 7
			Known 3244
			. Unknown/did not attend 1880

VARIABLE	SOURCE	RANGE	DESCRIPTION
-----	-----	-----	-----
dmrx1	a84	0 - 1	Under Treatment for Diabetes Exam 1
	(Exam1)	0	No 5056
	(Calculated)	1	Yes 42
		.	Unknown/did not attend 26
dmrx2	b65/b68	0 - 1	Under Treatment for Diabetes Exam 2
	(Exam2)	0	No 3820
	(Calculated)	1	Yes 42
		.	Unknown/did not attend 1262
dmrx3	c29/c30	0 - 1	Under Treatment for Diabetes Exam 3
	(Exam3)	0	No 3797
	(Calculated)	1	Yes 75
		.	Unknown/did not attend 1252
dmrx4	d035/d037	0 - 1	Under Treatment for Diabetes Exam 4
	(Exam4)	0	No 3889
	(Calculated)	1	Yes 117
		.	Unknown/did not attend 1118
dmrx5	e254/e256	0 - 1	Under Treatment for Diabetes Exam 5
	(Exam5)	0	No 3657
	(Calculated)	1	Yes 140
		.	Unknown/did not attend 1327
dmrx6	f218/f220	0 - 1	Under Treatment for Diabetes Exam 6
	(Exam6)	0	No 3325
	(Calculated)	1	Yes 198
		.	Unknown/did not attend 1601
dmrx7	g050, g052-059	0 - 1	Under Treatment for Diabetes Exam 7
	(Exam7)	0	No 3288
	(Calculated)	1	Yes 247
		.	Unknown/did not attend 1589

ALGORITHM USED TO DETERMINE DIABETIC STATUS (DIAB1 - DIAB7)

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-----  
IF (Glucose 200+ or DM med use)  
OR (At exams 3-7: No/unk DM med use, glucose 126-200, fasting 10+ hrs)  
OR (No/unk DM med use, missing fasting info, glucose 126-200, history of DM)  
OR (At exams 1,2: No/unk DM med use, missing fasting info, no/unk history of  
    DM, glucose 126-200, DM on next exam, weight gain < 7% between exams)  
THEN DIABN = 1
```

```
ELSE
```

```
IF (At exams 1,2: no/unk DM med use, missing fasting info, no/unk history  
    of DM, glucose 126-200, no DM on next exam, weight  
    loss < 7% between exams)  
OR (Glucose < 126 and no DM med use)  
OR (Glucose < 126, missing DM med use and no history of DM)  
THEN DIABN = 0
```

```
ELSE
```

```
IF (At exams 3-7: no/unk DM med use, glucose 126-200, not fasting or  
    fasting < 10 hours)  
OR (At exams 1, 2: no/unk DM med use, missing fasting info, no/unk history  
    of DM, glucose 126-200, no DM on next exam, weight loss at least 7%  
    between exams)  
OR (no/unk DM med use, missing fasting info, no/unk history of DM, glucose  
    126-200, DM on next exam, but weight gain at least 7% between exams)  
THEN DIABN = Missing
```

```
ELSE
```

```
IF no/unk DM med use and glucose missing
```

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THEN DIAB STATUS Needs Review
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