**Program 5.7** The Multiple Imputations Missingness Pattern (MIMP) Analysis

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\* Multiple Imputation Missingness Pattern (MIMP) Method;

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**PROC MI** DATA = ANALDATA2 ROUND=**.001** NIMPUTE=**5** SEED=**6731205** OUT=IMPUTED\_DATA

NOPRINT;

VAR &VARLIST FNBMD\_C BISMORE;

**RUN**;

**PROC LOGISTIC** DATA = IMPUTED\_DATA NOPRINT;

CLASS MP;

MODEL BISMORE = &VARLIST MP;

OUTPUT OUT=PRED PREDICTED=P;

BY \_IMPUTATION\_;

**RUN**;

**DATA** PRED;

SET PRED;

IF BISMORE = **0** THEN PROB = P;

IF BISMORE = **1** THEN PROB = **1**-P;

W = **1**/PROB;

**RUN**;

**PROC SORT** DATA=PRED;

BY \_IMPUTATION\_ BISMORE;

**RUN**;

ODS OUTPUT LSMEANS = LSM DIFFS=DIFFS;

**PROC MIXED** DATA = PRED;

CLASS BISMORE;

MODEL FNBMD\_C = BISMORE;

WEIGHT W;

BY \_IMPUTATION\_;

LSMEANS BISMORE/ DIFF=ALL;

**RUN**;

TITLE 'ANALYSIS RESULTS USING THE MULTIPLE IMPUTATION MISSINGNESS PATTERN

(MIMP) METHOD';

TITLE2 'POINT ESTIMATES BY TREATMENT GROUP';

**PROC MEANS** DATA=LSM;

CLASS BISMORE;

VAR ESTIMATE;

FORMAT BISMORE FORMATYN.;

**RUN**;

TITLE2 'POINT ESTIMATE FOR THE TREATMENT DIFFERENCE';

**PROC MEANS** DATA = DIFFS;

VAR ESTIMATE;

**RUN**;