Program 9.2

/\* This section of code performs the steps necessary to merge the output from the weight models (Program 9.1) to allow for computation of a single adjustment for each observation in the analysis data set (stabilized weight). This is followed by code to produce summaries of the final weights. \*/

**PROC** **SQL**;

/\*ratio of probabilities for treatment\*/

CREATE TABLE PREDTRT AS

SELECT \*,PREDTRT0/PREDTRT1 AS PREDTRT

FROM PREDTRT1(KEEP=PATSC VIS PREDTRT1)

NATURAL FULL JOIN

PREDTRT0(KEEP=PATSC VIS PREDTRT0)

ORDER PATSC,VIS

;

/\*ratio of probabilities for censoring\*/

CREATE TABLE PREDCEN AS

SELECT \*,PREDCEN0/PREDCEN1 AS PREDCEN

FROM (SELECT INPUT(PATSC,BEST.) AS PATSC, INPUT(VIS,BEST.) AS VIS, PREDCEN0 FROM PREDCEN0)

NATURAL FULL JOIN

(SELECT INPUT(PATSC,BEST.) AS PATSC, INPUT(VIS,BEST.) AS VIS, PREDCEN1 FROM PREDCEN1)

ORDER PATSC,VIS;

**QUIT**;

/\*calculate stabilized weight\*/

**PROC** **SORT** DATA=INPDS OUT=WEIGHTS;

BY PATSC VIS;

**RUN**;

**DATA** WEIGHTS;

MERGE WEIGHTS PREDTRT PREDCEN;

BY PATSC VIS;

VWT=PREDTRT\*PREDCEN;

IF FIRST.PATSC THEN STABWT=VWT;

ELSE STABWT=VWT\*DUM;

RETAIN DUM;

DROP DUM;

DUM=STABWT;

**RUN**;

/\*diagnostic plot for weights\*/

**DATA** GRPH;

SET WEIGHTS; /\*assignment of months to visits is study-specific\*/

IF VIS = **3** THEN MONTH = **0.5**;

IF VIS = **4** THEN MONTH = **2**;

IF VIS = **5** THEN MONTH = **5**;

IF VIS = **6** THEN MONTH = **8**;

IF VIS = **7** THEN MONTH = **12**;

IF MONTH = **0.5** THEN DELETE; /\*simplify plot by focusing on months

with greater switching and thus greatest variability in weights \*/

**RUN**;

**PROC** **SORT** DATA = GRPH;

BY MONTH;

**RUN**;

ODS RTF FILE="%SYSFUNC(PATHNAME(WORK))\FIG1.RTF";

FILENAME FIGURE "%SYSFUNC(PATHNAME(WORK))\SASGRAPH.EMF";

GOPTIONS RESET=ALL TARGET=SASEMF DEVICE=SASEMF FTEXT=DUPLEX HTEXT=**.75**

CBACK=WHITE XMAX=**6**IN XPIXELS=**1200** YMAX=**5**IN YPIXELS=**1000**

GSFNAME=FIGURE GSFMODE=REPLACE;

SYMBOL1 COLOR=BLACK INTERPOL=JOIN

WIDTH=**2** VALUE=SQUARE

HEIGHT=**1**;

AXIS1 MINOR = NONE COLOR = BLACK LABEL=("STABILIZED WEIGHT" ANGLE=**90** ROTATE=**0**);

**PROC** **BOXPLOT** DATA=GRPH;

PLOT STABWT\*MONTH / CFRAME = WHITE

CBOXES = DAGR

CBOXFILL = WHITE

VAXIS = AXIS1;

TITLE "SUMMARY OF VISITWISE WEIGHT VALUES";

TITLE2 "(box and whiskers: min, 1st quartile, median, 3rd quartile, max; square: mean)";

**RUN**;

GOPTIONS RESET=ALL;

ODS RTF CLOSE;