

```

/*
PURPOSE:          To demonstrate computation of aMed component scores and total score.
Higher scores
                  indicate closer conformance to a popular interpretation of
the Mediterranean diet (Fung 2009).

                  Please refer to corresponding ReadMe file.
*/

```

```

* (1) Construct aMed components based on WHI FFQ data (MPEDs or nutrients);
*       Assumes inData1 contains all necessary FFQ variables;

```

```

DATA inData2;
SET inData1;

```

```

* Vegetables;
aMed1 = (V_TOTAL - V_POTATO) ;

```

```

* Fruit;
aMed2 = F_TOTAL ;

```

```

* Nuts;
aMed3 = M_NUTSD;

```

```

* Whole grains;
aMed4 = G_WHL;

```

```

* Legumes;
aMed5 = LEGUMES;

```

```

* Fish;
aMed6 = M_FISH_HI + M_FISH_LO;

```

```

* Fat;
aMed7 = F60MFA/F60SFA;

```

```

* Red/processed meat;
aMed8 = M_MEAT + M_FRANK;

```

```

aMed9 = F60ALC;

```

```

RUN;

```

```

*****
*****;

```

```

* (2) Compute median cutpoints at enrollment of study cohort;
*       NOTE: Study cohort (e.g., WHI OS) will depend on research objectives. ;

```

```

proc univariate data=inData2 ;
WHERE f60vy EQ 0 ;
var aMed1 aMed2 aMed3 aMed4 aMed5 aMed6 aMed7 aMed8;

```

```

output out=temp median=aMed1_50 aMed2_50 aMed3_50 aMed4_50 aMed5_50 aMed6_50
aMed7_50 aMed8_50;
run;
PROC TRANSPOSE DATA = temp OUT = temp2 name=cutpoint prefix=median;
VAR aMed1_50 aMed2_50 aMed3_50 aMed4_50 aMed5_50 aMed6_50 aMed7_50 aMed8_50;
RUN;
data _null_;
set temp2;
call symputx(cutpoint,median1);
run;
%put &aMed1_50 &aMed2_50 &aMed3_50 &aMed4_50 &aMed5_50 &aMed6_50 &aMed7_50
&aMed8_50;

```

```

*****
*****;

```

```

* (3) Code aMed dichotomous components;

```

```

data outData;
set inData2;

```

```

* Vegetables;

```

```

IF . < aMed1 <= &aMed1_50 THEN aMed1_VEG = 0;
ELSE IF aMed1 > &aMed1_50 THEN aMed1_VEG = 1;
ELSE;

```

```

* Fruit;

```

```

IF . < aMed2 <= &aMed2_50 THEN aMed2_FRUIT = 0;
ELSE IF aMed2 > &aMed2_50 THEN aMed2_FRUIT = 1;
ELSE;

```

```

* Nuts;

```

```

IF . < aMed3 <= &aMed3_50 THEN aMed3_NUT = 0;
ELSE IF aMed3 > &aMed3_50 THEN aMed3_NUT = 1;
ELSE;

```

```

* Whole grains;

```

```

IF . < aMed4 <= &aMed4_50 THEN aMed4_WGRAINS = 0;
ELSE IF aMed4 > &aMed4_50 THEN aMed4_WGRAINS = 1;
ELSE;

```

```

* Legumes;

```

```

IF . < aMed5 <= &aMed5_50 THEN aMed5_LEGUMES = 0;
ELSE IF aMed5 > &aMed5_50 THEN aMed5_LEGUMES = 1;
ELSE;

```

```

* Fish;

```

```

IF . < aMed6 <= &aMed6_50 THEN aMed6_FISH = 0;
ELSE IF aMed6 > &aMed6_50 THEN aMed6_FISH = 1;
ELSE;

```

```

* Fat;

```

```

IF . < aMed7 <= &aMed7_50 THEN aMed7_FAT = 0;
  ELSE IF aMed7 > &aMed7_50 THEN aMed7_FAT = 1;
ELSE;

* Red meat;
IF . < aMed8 < &aMed8_50 THEN aMed8_REDMEAT = 1;
  ELSE IF aMed8 >= &aMed8_50 THEN aMed8_REDMEAT = 0;
ELSE;

* Alcohol;
IF . < aMed9 <= 5 THEN aMed9_ALCOHOL = 0;
  ELSE IF 5 < aMed9 < 15 THEN aMed9_ALCOHOL = 1;
  ELSE IF aMed9 >= 15 THEN aMed9_ALCOHOL = 0;
ELSE;

* Compute aMed total score;
aMed_TOTAL_SCORE = aMed1_VEG + aMed2_FRUIT + aMed3_NUT + aMed4_WGRAINS +
aMed5_LEGUMES +
                    aMed6_FISH + aMed7_FAT + aMed8_REDMEAT + aMed9_ALCOHOL ;

LABEL aMed_TOTAL_SCORE = 'Total aMed score'
      aMed1_VEG          = 'aMed component 1 vegetables'
      aMed2_FRUIT        = 'aMed component 2 fruits'
      aMed3_NUT          = 'aMed component 3 nuts'
      aMed4_WGRAINS      = 'aMed component 4 whole grains'
      aMed5_LEGUMES      = 'aMed component 5 legumes'
      aMed6_FISH         = 'aMed component 6 fish'
      aMed7_FAT          = 'aMed component 7 ratio of MFA to
SFA'
      aMed8_REDMEAT      = 'aMed component 8 red meat'
      aMed9_ALCOHOL      = 'aMed component 9 alcohol';

RUN;

```