01/30/2019 Version 1.2 Men_CRC_RAM_agerange4090 (Fanni Zhang)

Updates: - replace old incidence rates with new rates (SEER18 2000-2015) in H1_Star data step;

- replace old mortality rates with new rates (2010-2015) in H2 data step;

- extend the age range for the new rates to allow projections to age 40.

07/21/2015 Version 1.1 incorporates missing values -8, -9 with replacement values (10/16/14 Pfeiffer)

05/26/2010 Version 1.0

Short instruction file on the use of the men's colorectal cancer (CRC) absolute risk projection SAS macro (Men_CRC_RAM),

The men's colorectal cancer absolute risk projection SAS macro, Men_CRC_RAM needs the following information as input to estimate absolute risk of colorectal cancer:

Race =1, white

=2, african-american

=3, hispanic

=4, asian-american

T1 T1, current age ranges from: 50 to 89

T2 T2, projection age ranges from: note the constraint of 40 <= T1 < T2 <=90

Sigmoid_Polyps =0, yes sigmoidoscopy and/or colonscopy last 10 years, no history of polyps

=1. no sigmoidoscopy and/or colonscopy last 10 years

=2, yes sigmoidoscopy and/or colonscopy last 10 years, yes history of polyps

=3, unk sigmoidoscopy and/or colonscopy last 10 years, unk history of polyps or yes sigmoidoscopy and/or colonscopy last 10 years, unk history of polyps

NoIBuprofen =0, regular user non-Aspirin NSaids e.g. IBuprofen...Advil,Nuprin or

don't know, denoted by -9 on input data (10/16/2014 meeting)

=1, non user of IBuprofen...Advil,Nuprin etc non-Aspirin NSaids

Vigorus_Xrcis =0, 0 hrs/wk

=1, greater than 0 and less than equal 2 hrs/wk

=2, greater than 2 and less than equal 4 hrs/wk

=3, greater than 4 hrs/wk

Cig_Yrs =0, # yrs cigarette smoking = 0 or

don't know smoking hst = -9

=1, # yrs cigarette smoking > 0 and < 15

=2, # yrs cigarette smoking >= 15 and < 35

=3, # yrs cigarette smoking >= 35

Vegetable =0, greater equal to five servings of vegetables per week

=1, less than five servings of vegetables per week

Num_Cigs =0, # cigarettes smokes = 0 or

dont know # cigs smkd = -9

=1, # cigarettes smokes >= 1 and < 11 smoked/day when regularly smoking

=2, # cigarettes smokes >= 11 and <= 20 smoked/day when regularly smoking

=3, # cigarettes smokes >= 21 smoked/day when regularly smoking

!!!

On input data program enforces the following consistency checks:

NOTE: for Num_Cigs=0 or -9 then

Cig_Yrs will be forced set to 0

ie if Num_Cigs = 0 or -9 implies 0 cigs smoked ever

so Cig_Yrs = 0 0 years of smoking

NOTE: for Cig_Yrs = 0 or -9 ie # of yrs smoking is 0 then

Num_Cigs will be forced set to 0

ie if Cig_Yrs0_Ind = 0 implies never smoked

then Num_Coig = 0 # of cigs smoked/day when

regularly smoking is 0

!!!

BMI_Trnd =0, BMI < 25

=1, BMI >= 25 and BMI < 30

=2, BMI >= 30

No_NSaids =0, regular user of Aspirin and non-Aspiring NSaids such as IBuprofen etc or
don't know, denoted by -9 on input data (10/16/2014 meeting)

=1, non user of Aspirin and/or non-Aspirin NSaids

Fam_Hist_CRC =0, 0 relative with CRC (CRC=Colorectal Cancer) or
dont know if any relatives with CRC denoted by -9 on input data

=1, 1 relative with CRC or
has relative with CRC, dont know how many denoted by -8 on input data

=2, 2 or more relatives with CRC

!!!!! Important Pleases Read !!!!!

Data exceptions:

if Num_Cigs smoked is 0 or don't know (-9), then both Num_Cigs and Cig_Yrs are set to lowest RR level i.e. Num_Cigs is set to 0 and Cig_Yrs is set to 0.

For NoIBuprofen, dont know=-9 mapped to RR level of 0
No_NSaids, dont know=-9 mapped to RR level of 0
Cig_Yrs, dont know=-9 mapped to RR level of 0
Num_Cigs, dont know=-9 mapped to RR level of 0

Fam_Hist_CRC dont know if any relatives has CRC=-9 mapped to RR level of 0

(10/16/2014 meeting with R Pfeiffer)

For Fam_Hist_CRC person has relatives with CRC, dont know how many with CRC=-8

mapped to RR level of 1 (ie one relative with CRC)

(10/16/2014 meeting with R Pfeiffer)

!!!!!!!!!!!! Warning Warning Warning Warning Warning Warning !!!!!!!!!!!!

!!!!!!!!!!!! Warning about inadmissible error conditions !!!!!!!!!!!!

(a) Inadmissible condition for Num_Cigs and Cig_Yrs

Num_Cigs and Cig_Yrs have to both be 0 simultaneously

or both be >0 simultaneously

can't have one 0 & the other >0

this is an error condition. when one

of the quantities are zero, the

program enforces both to be set to 0

(b) Inadmissable condition of NoIBuprofin=0 and No_NSAIDS=1

individual uses non-Aspirin NSaids, such as IBuprofin but does not use

NSaids. This is contradictory since IBuprofin is in the family of NSaids

drug, projected absolute risk for records with this contradition set to

missing

!!!!!!!!!!!! Warning about inadmissible error conditions !!!!!!!!!!!!

!!!!!!!!!!!! Warning Warning Warning Warning Warning Warning !!!!!!!!!!!!

A short SAS sample program, Men_CRC_Template.sas, which reads a covariate input dataset, Men_CRC_raw.in,

are included to more clearly demonstrate the use of the SAS macro Men_CRC_RAM. User's can run the program Men_CRC_Template.sas for instructional and clarification purposes

Ref: "Colorectal Cancer Risk Prediction Tool for White Men and Women Without Known Susceptibility". A Freedman et al. JCO 27:686-693 2008.