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libname d "C:\Documents and Settings\David\My Documents\MDM\DCCTDATA5";
proc sort data=d.source2;
by mask_pat;
run;
quit;

*correlations of food commodities, nutrients, and other risks with early death from CVD;
proc corr data=d.source2;
where cvd15_64 ne . and pprot ne .;
var Buttera2 Cheesea2 creama2 Milka2 eggsa2 Cowa2
Muttona2 piga2 pouлта2
fisha2 offala2 animalav animala2 meata2 dairya2
cereala2 starcha2 sugara2 pulsesa2 treenta2 oila2 vegoila2 vegesa2 fruitsa2 vegeta2
calave kcalav pprot ptcарbs dfave dfp1000 Carb_Df TF_PUFA ptfat psfa pmufa ppufa
ptransft alc2010 K11000 MK_4 MK_41000 MK_5_13 MK513_1000 MK_n MKn_1000
nope10 nope2010 smoke smoke13 chol mbp2014 bmi2014 DMprev15
FEMALE gdp2009 mort5yrx mort5yrs edu13 edu2013 airpoll
cvd15_64t cvd15_64u cvd15_64v cvd15_64x cvd15_64y;
with cvd15_64;
run;
quit;

*Multiple regression formula modeling early death from CVP;
proc reg data=d.source2;
where cvd15_64 ne . and pprot ne .;
model cvd15_64= /
selection=STEPWISE slentry=.10 slstay=.10;
run;
quit;

*correlations of food commodities, nutrients, and other risks with BMI;
proc corr data=d.source2;
where mask_pat < 403 and cvd15_64 ne . and pprot ne .;
var bmif3 cvd15_64w Buttera2 Cheesea2 creama2 Milka2 eggsa2 Cowa2 Muttona2 piga2 pouлта2
fisha2 offala2 animalav animala2
cereala2 starcha2 sugara2 pulsesa2 treenta2 oila2 vegoila2 vegesa2 fruitsa2 vegeta2
calave kcalav pprot ptcарbs dfave dfp1000 Carb_Df TF_PUFA ptfat psfa pmufa ppufa TF_PUFA
ptransft alc2010 K11000 MK_4 MK_41000 MK_5_13 MK513_1000 MK_n MKn_1000
nope10 smoke bmi2014 chol mbp2014 DMprev15 FEMALE gdp2009 mort5yrx edu13 airpoll
bmif1 bmif2 bmif3
;
with BMI2014;
run;
quit;

*correlations of food commodities, nutrients, and other risks with diabetes prevalence in 2015 (IDF);
proc corr data=d.source2;
where mask_pat < 403 and cvd15_64 ne . and pprot ne .;
var DMPf5 Buttera2 Cheesea2 creama2 Milka2 eggsa2 Cowa2 Muttona2 piga2 pouлта2
fisha2 offala2 animalav animala2
cereala2 starcha2 sugara2 pulsesa2 treenta2 oila2 vegoila2 vegesa2 fruitsa2 vegeta2
calave kcalav pprot ptcарbs dfave dfp1000 Carb_Df TF_PUFA ptfat psfa pmufa ppufa TF_PUFA
ptransft alc2010 K11000 MK_4 MK_41000 MK_5_13 MK513_1000 MK_n MKn_1000
nope10 smoke bmi2014 chol mbp2014 DMprev15 FEMALE gdp2009 mort5yrx edu13 airpoll
DMPf1 DMPf2 DMPf3 DMPf4 DMPf5;
with DMPprev15;

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run;  
quit;
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*correlations of food commodities, nutrients, and other risks with systolic blood pressure  
(SBP from the WHO)(MBP2014);  
proc corr data=d.source2;  
where mask_pat < 403 and cvd15_64 ne . and pprot ne . ;  
var mbpf4 Buttera2 Cheesea2 creama2 Milka2 eggsa2 Cowa2 Muttona2 piga2 pouлта2  
fisha2 offala2 animalav animala2  
cereala2 starcha2 sugara2 pulsesa2 treenta2 oila2 vegoila2 vegesa2 fruitsa2 vegeta2  
calave kcalav pprot ptcарbs dfave dfp1000 Carb_Df TF_PUFA ptfat psfa pmufa ppufa TF_PUFA  
ptransft alc2010 K11000 MK_4 MK_41000 MK_5_13 MK513_1000 MK_n MKn_1000  
nope10 smoke bmi2014 chol mbp2014 DMprev15 FEMALE gdp2009 mort5yrx edu13 airpoll  
mbpf1 mbpf2 mbpf3 mbpf4;  
with MBP2014;  
run;  
quit;
```

```
*correlations of food commodities, nutrients, and other risks with serum cholesterol (chol);  
proc corr data=d.source2;  
where mask_pat < 403 and cvd15_64 ne . and pprot ne . ;  
var cholf3 Buttera2 Cheesea2 creama2 Milka2 eggsa2 Cowa2 Muttona2 piga2 pouлта2  
fisha2 offala2 animalav animala2  
cereala2 starcha2 sugara2 pulsesa2 treenta2 oila2 vegoila2 vegesa2 fruitsa2 vegeta2  
calave kcalav pprot ptcарbs dfave dfp1000 Carb_Df TF_PUFA ptfat psfa pmufa ppufa TF_PUFA  
ptransft alc2010 K11000 MK_4 MK_41000 MK_5_13 MK513_1000 MK_n MKn_1000  
nope10 smoke bmi2014 chol mbp2014 DMprev15 FEMALE gdp2009 mort5yrx edu13 airpoll  
cholf1 cholf2 cholf3;  
with chol;  
run;  
quit;
```

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*To look at specific data points;  
proc print data=d.source2;  
where  
  
;  
var Mask_pat country ;  
by mask_pat;  
run;  
quit;
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*Univariate function to determine 90% confidence intervals for extremes of MK-4 (MK_41000 < 2 or >7);  
proc univariate data=d.source2;  
where mask_pat < 403 and cvd15_64 ne . and pprot ne . ;  
var Buttera2 Cheesea2 Milka2 eggsa2 Cowa2 Muttona2 piga2 pouлта2 fisha2 animalav animala2  
cereala2 starcha2 sugara2 pulsesa2 treenta2 oila2 vegoilav vegoila2 vegesa2 fruitsa2 vegeta2  
calave kcalav pprot ptcарbs dfp1000 Carb_DF ptfat psfa pmufa ppufa TF_PUFA  
ptransft alc2010 K1 K11000 MKn_1000 K2;  
*by female;  
run;  
quit;
```

