options pageno=1 nofmterr sasautos = ('C:\StatMethods\SAS\MacroMayo');

* For model purposes, looked at change in 100th decimal-spot for AVA index.

* proc freq data=getdata;
* run;

proc contents data=getdata varnum;
run;

*proc freq data=getdata;
*run;
title;

proc format;
value ynf 0='No' 1='Yes';
NOTE: Format YNF is already on the library.
NOTE: Format YNF has been output.
value groupf 1='Group 1' 2='Group 2' 3='Group 3' 4='Group 4';
NOTE: Format GROUPF is already on the library.
NOTE: Format GROUPF has been output.
run;

NOTE: PROCEDURE FORMAT used (Total process time):
    real time          0.00 seconds
    cpu time           0.00 seconds

data getdata2;
set getdata;
* Reformat NYHA class;
if (nyha_class = 1.5) then nyha_class = 2;
   else if (nyha_class = 2.5) then nyha_class = 3;
   else if (nyha_class = 3.5) then nyha_class = 4;
* Create categorical variables from continuous variables;
if (vo2 ne .) and (vo2 lt 14.7) then vo2_median = 1;
   else if (vo2 ne .) and (vo2 ge 14.7) then vo2_median = 2;
if (vo2_median = 1) and (nitrates = 0) then group = 1;
   else if (vo2_median = 1) and (nitrates = 1) then group = 2;
   else if (vo2_median = 2) and (nitrates = 0) then group = 3;
   else if (vo2_median = 2) and (nitrates = 1) then group = 4;
* Create time-to-event variables;
if (fu_days ne .) and (cause ne '') then event = 1; * Death/transplant/LVAD occurred;
   else if (fu_days ne .) and (cause eq '') then event = 0; * No event occurred;
if (fu_days ne .) then fu_yrs = fu_days/365;
label fu_yrs='Time until death/transplant/LVAD (yrs)';
format male white icm beta ace dig arb statin slntg nitrates aicd pace bivpace diabetes htn event ynf.
group groupf.;
run;

NOTE: There were 606 observations read from the data set WORK.GETDATA.
NOTE: The data set WORK.GETDATA2 has 606 observations and 45 variables.
NOTE: DATA statement used (Total process time):
   real time 0.01 seconds
   cpu time 0.01 seconds

title2 'KM curves for all groups';
ods listing gpath='V:\Projects\Peterson\NitrateVO2\Analysis\SAS_ForumQ'
image_dpi=200 sge=on;
ods graphics on;
proc lifetest data=getdata2 plots=s(atrisk=0 to 10 by 2 nocensor test);
time fu_yrs*event(0);
strata group / diff=all adjust=bon;
run;

NOTE: The LOGLOG transform is used to compute the confidence limits for the quartiles of the survivor distribution. To suppress using this transform, specify CONTYPE=LINEAR in the PROC LIFETEST statement.
NOTE: 2 observations with invalid time, censoring, or strata values were deleted.
NOTE: PROCEDURE LIFETEST used (Total process time):
   real time 3.92 seconds
   cpu time 0.81 seconds

ods graphics off;
title2;
ods listing gpath='V:\Projects\Peterson\NitrateVO2\Analysis\SAS_ForumQ'
title2 'KM curves for groups 1 and 2 only';
proc lifetest data=getdata2 plots=s(atrisk=0 to 10 by 2 nocensor test);
time fu_yrs*event(0);
strata group;
where (group eq 1) or (group eq 2);
run;

NOTE: The LOGLOG transform is used to compute the confidence limits for the quartiles of the survivor distribution. To suppress using this transform, specify CONTYPE=LINEAR in the PROC LIFETEST statement.

NOTE: PROCEDURE LIFETEST used (Total process time):
      real time           3.39 seconds
      cpu time            0.56 seconds
ods graphics off;
title2;

304  ods graphics off;
305  title2;
306
307
308  title;