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Libname lab12 '/home/u63581499/Epi';

data lab12.survival_new;
  set lab12.survival;

  /* TREAT_SITE variable */
  if TREAT = 1 and SITE = 0 then TREAT_SITE = 1; /* Long at Site A */
  else if TREAT = 1 and SITE = 1 then TREAT_SITE = 2; /* Long at Site B */
  else if TREAT = 0 and SITE = 0 then TREAT_SITE = 3; /* Short at Site A */
  else if TREAT = 0 and SITE = 1 then TREAT_SITE = 4; /* Short at Site B */

proc freq data= lab12.survival_new;
  tables TREAT_SITE / missing;
run;

PROC LIFETEST DATA=lab12.survival_new METHOD= KM PLOTS=S(test cl);
TIME time*censor(0);
STRATA treat_site;
run;

PROC PHREG DATA=lab12.survival_new;
CLASS treat(REF='0') /PARAM=ref;
MODEL time*censor(0)=treat age ndrugtx/RL;
run;

PROC PHREG DATA=lab12.survival_new;
CLASS treat(ref='0') site(ref='0') / PARAM=ref;
MODEL time*censor(0) = treat site treat*site age ndrugtx / RL;
RUN;

PROC PHREG DATA=lab12.survival_new;
CLASS treat(ref='0') site(ref='1') / PARAM=ref;
MODEL time*censor(0) = treat site treat*site age ndrugtx / RL;
HAZARDRATIO treat / DIFF=ref AT (site=ALL);
RUN;

```