

```
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;
```