```
FILENAME REFFILE '/folders/myfolders/beta_carotene_univar.csv';
PROC IMPORT DATAFILE=REFFILE
   DBMS=CSV
   OUT=beta:
   GETNAMES=YES;
RUN:
PROC MIXED DATA=beta METHOD=ML;
title 'Model 0: Categorical Time';
class id group time;
model y = group time group*time / solution;
repeated / type=UN subject=id;
run;
PROC MIXED DATA=beta METHOD=ML;
title 'Model 1: Linear Time';
class id group;
model y = group time group*time / solution;
repeated / type=UN subject=id;
PROC MIXED DATA=beta METHOD=ML;
title 'Model 2: Quadratic Time';
class id group;
model y=group time time*time group*time group*time*time / solution;
repeated / type=UN subject=id;
PROC MIXED DATA=beta METHOD=ML;
title 'Model 3: Cubic Time';
class id group;
model y=group time time*time time*time group*time group*time*time group*time*time*time / solution;
repeated / type=UN subject=id;
estimate 'BASF (30mg capsules) 12 weeks'
intercept 1 group 0 0 1 0 time 12 time*time 144 time*time*time 1728
group*time 0 0 12 0 group*time*time 0 0 144 0 group*time*time*time 0 0 1728 0;
contrast 'BASF 30mg 60mg Curve Comparison'
group 0 0 1 -1 group*time 0 0 1 -1 group*time*time 0 0 1 -1 group*time*time 0 0 1 -1;
PROC MIXED DATA=beta METHOD=ML;
title 'Model 4: Quartic Time';
class id group;
model y=group time time*time time*time*time*time*time
       group*time group*time*time group*time*time group*time*time*time*time / solution;
repeated / type=UN subject=id;
run:
```

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