

**SAS code to perform the proposed analysis approach with imputation of end-of-washout values using multiple imputation (standard CDISC variables are used throughout: trtp = treatment, param = parameter name, aval = parameter value, avisitn = numeric analysis visit number etc.):**

\*\* Transpose analysis dataset and only use values that are not post-diabetes-diagnosis (ANL01FL="Y");  
\*\* Examples of visit numbering could be 1=baseline, 2 to 7 = 6, 12, ..., 36 months, 8=end of washout;

```
proc transpose data=adlb out=adlbt prefix=fpg;  
  where param="Fasting Plasma Glucose [mmol/L]" and ANL01FL="Y" and avisitn in (1,2,3,4,5,6,7,8);  
  by simulation trtp patient;  
  var aval;  
  id avisitn;  
run;
```

\*\* Conduct multiple imputation;

```
proc mi data=adlbt seed=<insert random number seed> nimpute=50 out=adlbt_i;  
  mcmc chain=multiple initial=em;  
  by simulation trtp;  
  var fpg1 fpg2 fpg3 fpg4 fpg5 fpg6 fpg7 fpg8;  
run;
```

```
proc sort data=adlbt_i;  
  by simulation _imputation_;  
run;
```

\*\* Analyses on imputed dataset using imputed end of washout;

```
ods output diffs=diffs;  
proc mixed data=adlbt_i;  
  by simulation _imputation_;  
  class trtp(ref='0');  
  model fpg8 = trtp fpg1;  
  lsmeans trtp / pdiff;  
run;
```

\*\* Obtain aggregate estimates across imputation samples;

```
ods output ParameterEstimates=aggregate;  
proc mianalyze data=diffs;  
  by simulation;  
  modeleffects Estimate;  
  stderr StdErr;  
run;
```