

Analysis of Longitudinal Data

Biostatistics 140.655

### **SAS Macros for use with Longitudinal Data**

gee1\_203.sas\* - fits gee models

geefit.sas\*\* - demonstrates using gee1\_203.sas for continuous outcomes

geefit2.sas\*\* - demonstrates using gee1\_203.sas for binary outcomes

glmm612.sas\* - GLMMIX macro fitting generalized linear mixed models using PROC MIX

mixfit.sas\*\* - demonstrates using GLMMIX for binary outcomes

rdefit1.sas\*\* - fits linear mixed effects model using PROC MIX

splnfit.sas\*\* - fits four linear regression models with cubic splines and up to four knots

twstgfit.sas\*\* - fit two-stage regression model

gendat.sas\*\* - generate correlated data to compare OLS, WLS

owlsfit.sas\*\* - fits OLS, WLS models on gendat.sas data

\* actual SAS macros

\*\* merely demonstrates use of either macros contained here or standard SAS procedural syntax

#### **Stata:**

gendat.do - generate correlated data to compare OLS, WLS

autocor.ado - calculates and plots autocorrelation function

twostage.ado - fits twostage regression models

#### **S-Plus:**

gendat.spl - generate correlated data to compare OLS, WLS

owlsfit.spl - fits OLS, WLS models on gendat.spl data

