2022\_statistical\_compute

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Table of Contents

# test

proc logistic data = cohort descending;  
/\* Fit logistic regression model with no random effects \*/  
model y = x;  
ods output FitStatistics = MLinfo1;  
run;  
data MLinfo1;  
set MLinfo1;  
if Criterion = " -2 Log L" ;  
Deviance\_LR = InterceptAndCovariates;  
keep Deviance\_LR;  
run;  
proc glimmix data = cohort method = quad (qpoints = 7);  
/\* Fit logistic regression model with random effects \*/  
class cluster\_id;  
model y = x /dist = binomial;  
random intercept /subject = cluster\_id;  
ods output FitStatistics = MLinfo2;  
run;  
data MLinfo2;  
set MLinfo2;  
if Descr = " -2 Log Likelihood" ;  
Deviance\_GLMM = Value;  
keep Deviance\_GLMM;  
run;  
data results;  
merge MLinfo1 MLinfo2;  
LRT = abs(Deviance\_LR - Deviance\_GLMM);  
pvalue = (1 - probchi(LRT,1))/2;  
run;  
proc print data = results;  
run;