# Ordinary linear regression

## Write a sentence in which you interpret the slope. Include the confidence interval in your sentence.

proc genmod data = der.subjectlevel;

 model DisTotalFSS = EcmoDurationWeeks / link = identity dist = normal;

run;



FSS increase, on average, by 0.8061 (95% CI: 0.4590, 1.1533) for each additional week of ECMO.

# Ordinary linear regression

## Write a sentence in which you interpret the slope. Include the confidence interval in your sentence.

proc genomd data = der.subjectlevel;

 model DisTotalFSS = PRBC24 / link = identity dist = normal;

run;





FSS at hospital discharge decreases, on average, by 0.0319 (95% CI: -0.3134, 0.3772) for each additional dL/kg of packed red blood cells transfused in the first 24 hours after ECMO initiation.

# Logistic regression

## Write a sentence in which you interpret the odds ratio. Include the confidence interval in your sentence.

proc genmod data = der.subjectlevel plots = all;

 model dead(event='Yes') = EcmoDurationWeeks / link = logit dist = binomial;

run;





# Logistic regression

## Write a sentence in which you interpret the odds ratio. Include the confidence interval in your sentence.

proc genmod data = der.subjectlevel plots = all;

 model dead(event='Yes') = PRBC24 / link = logit dist = binomial;

run;





# Poisson regression with robust error estimates (aka modified Poisson regression)

## Write a sentence in which you interpret the relative risk (aka the risk ratio). Include the confidence interval in your sentence.

proc genmod data = der.subjectlevel;

 class StudySubjectID;

 model dead = EcmoDurationWeeks / dist = Poisson link = log;

 repeated subject = StudySubjectID;

run;



# Poisson regression with robust error estimates (aka modified Poisson regression)

## Write a sentence in which you interpret the relative risk (aka the risk ratio). Include the confidence interval in your sentence.

proc genmod data = der.subjectlevel;

 class StudySubjectID;

 model dead = PRBC24 / dist = Poisson link = log;

 repeated subject = StudySubjectID;

run;

