

Ordinary linear regression

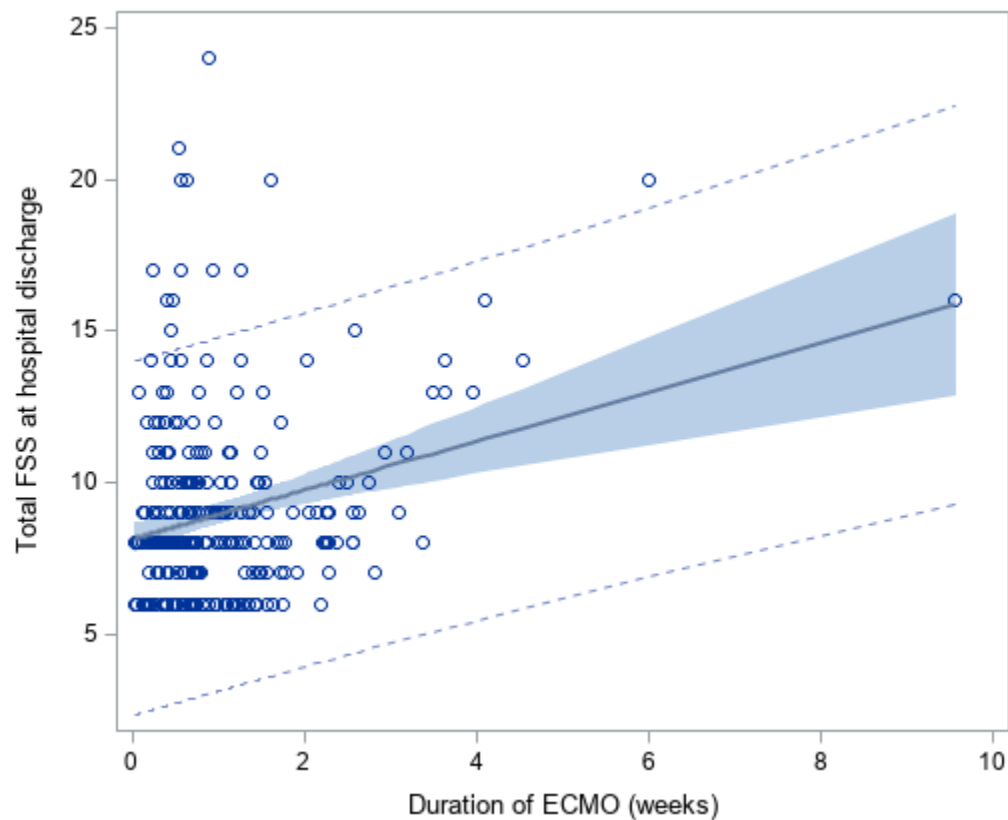
Write a sentence in which you interpret the slope. Include the confidence interval in your sentence.

```
proc genmod data = der.subjectlevel;
```

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

```
run;
```

Analysis Of Maximum Likelihood Parameter Estimates							
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Wald Chi-Square	Pr > ChiSq
Intercept	1	8.1441	0.2503	7.6535	8.6348	1058.46	<.0001
EcmoDurationWeeks	1	0.8061	0.1771	0.4590	1.1533	20.72	<.0001
Scale	1	2.9439	0.1240	2.7107	3.1972		



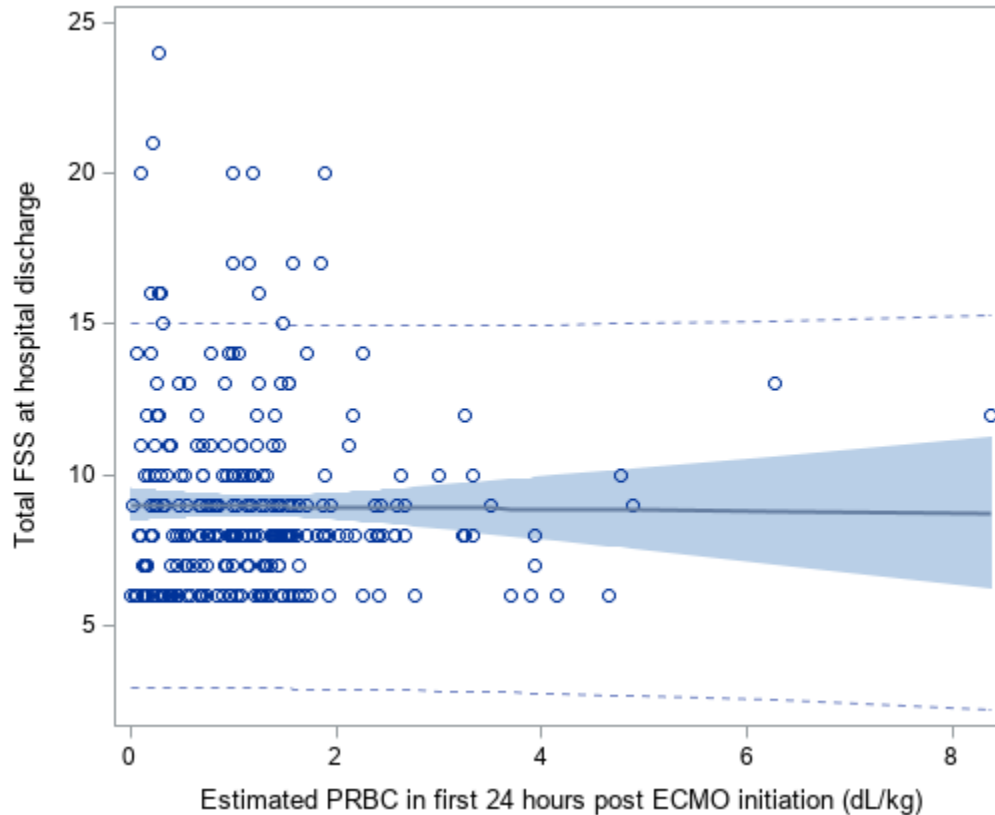
Ordinary linear regression

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

```
proc genmod data = der.subjectlevel;
```

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

```
run;
```



Analysis Of Maximum Likelihood Parameter Estimates							
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Wald Chi-Square	Pr > ChiSq
Intercept	1	8.9926	0.2814	8.4410	9.5442	1021.04	<.0001
PRBC24	1	-0.0319	0.1762	-0.3772	0.3134	0.03	0.8561
Scale	1	3.0547	0.1289	2.8123	3.3180		

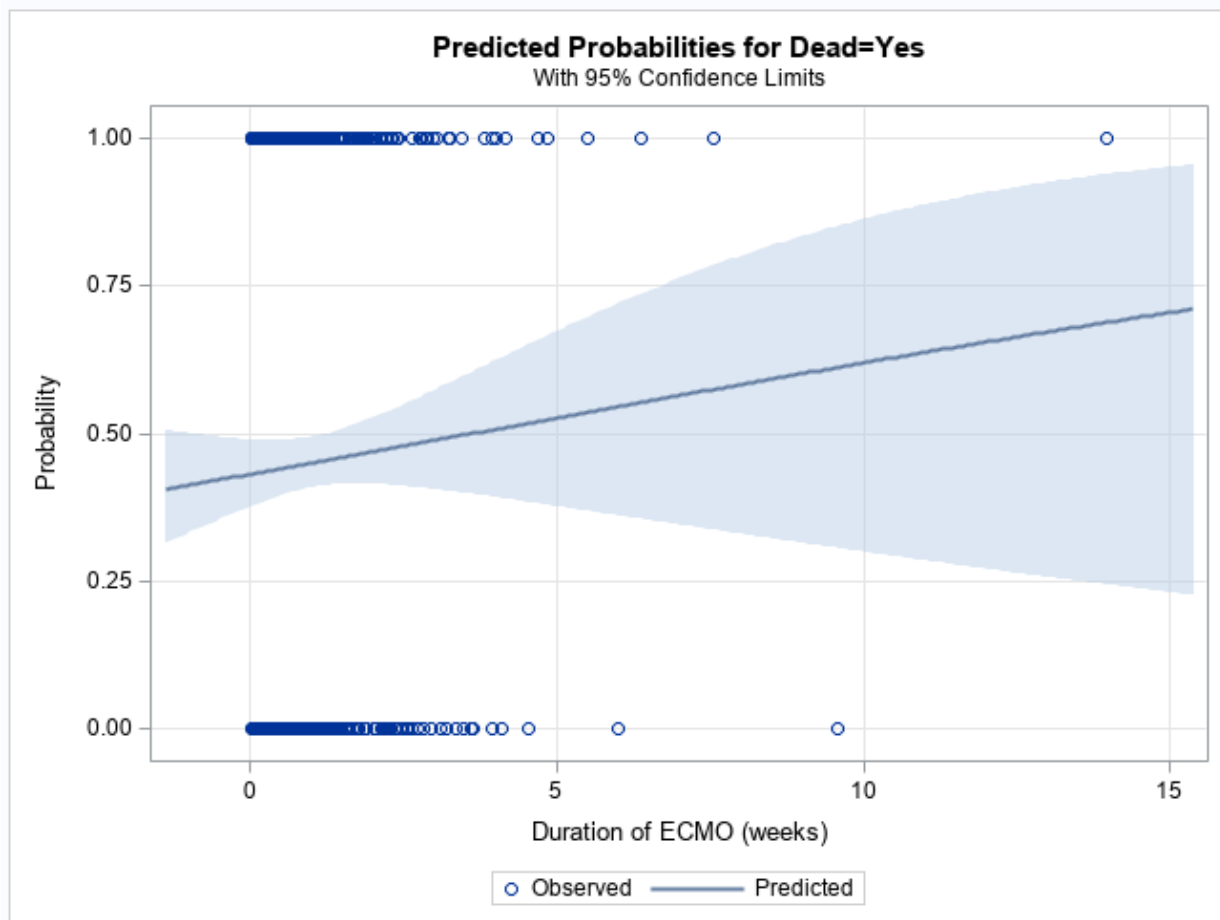
Logistic regression

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;
```

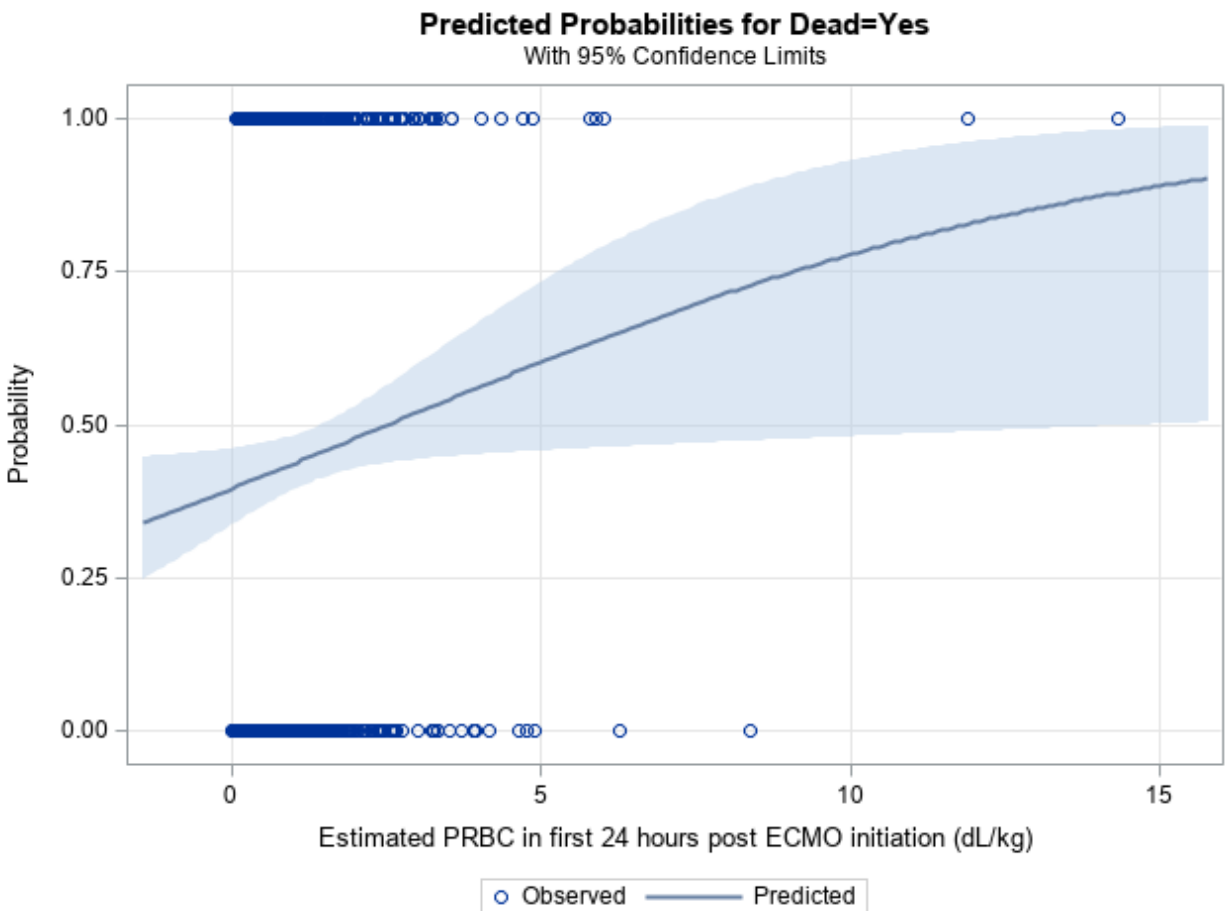


Analysis Of Maximum Likelihood Parameter Estimates							
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Wald Chi-Square	Pr > ChiSq
Intercept	1	-0.2762	0.1196	-0.5105	-0.0418	5.34	0.0209
EcmoDurationWeeks	1	0.0765	0.0758	-0.0721	0.2250	1.02	0.3129
Scale	0	1.0000	0.0000	1.0000	1.0000		

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;
```



Analysis Of Maximum Likelihood Parameter Estimates							
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Wald Chi-Square	Pr > ChiSq
Intercept	1	-0.4233	0.1355	-0.6889	-0.1577	9.76	0.0018
PRBC24	1	0.1678	0.0776	0.0157	0.3200	4.68	0.0306
Scale	0	1.0000	0.0000	1.0000	1.0000		

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;
```

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr > Z
Intercept	-0.8363	0.0615	-0.9568	-0.7157	-13.59	<.0001
EcmoDurationWeeks	0.0375	0.0310	-0.0232	0.0983	1.21	0.2261

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;
```

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr > Z
Intercept	-0.8957	0.0618	-1.0168	-0.7747	-14.50	<.0001
PRBC24	0.0697	0.0216	0.0274	0.1119	3.23	0.0012