

Feedback — Quiz: Week Seven

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You submitted this quiz on **Sat 27 Jun 2015 1:04 AM PDT**. You got a score of **6.00** out of **6.00**.

Question 1

Consider whether the following statement is true or false:

Given an assumption that the number of covariate patterns in the dataset is n , once the final model is fit, the number of covariate patterns can never be less than n .

(please answer True or False below)

Your Answer	Score	Explanation
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☐ True

☒

False



1.00

Great job!

For example, if there are 4 independent variables in the data set and the final model contains only two and each coded at 2 levels, then there are only 4 possible covariate patterns.

Total	1.00 / 1.00
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Question 2

Complete the following statement

The number of covariate patterns is important in...

Your Answer	Score	Explanation
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☐ Model development

☒ Assessing  1.00

the fit of a
model

Nice work!

The degrees of freedom for tests are based on the difference in the number of variables in competing models, not on the number of covariate patterns.


☐ None of
the above

Total 1.00 /
1.00

Question 3

Complete the following definition

The ROC curve is obtained by plotting...

Your Answer	Score	Explanation
<input checked="" type="radio"/> Sensitivity vs. (1- Specificity)	 1.00	Good job, you got it right!
<input type="radio"/> (1- Sensitivity) vs. (1- Specificity)		
<input type="radio"/> Specificity vs. (1- Sensitivity)		
<input type="radio"/> Sensitivity vs. Specificity		
Total	1.00 / 1.00	

Question 4

Consider whether the following statement is true or false:

Specificity is always (1 – Sensitivity)

(please answer True or False below)

Your Answer	Score	Explanation
<input type="radio"/> True		

☐ False ☒ 1.00

Nice work!

We know that sensitivity is the true positive rate and the specificity is the true negative rate.

Total 1.00 /
 1.00

Question 5

Which of the following tests can you use for assessing the goodness of fit of a logistic model?

Select all that apply

Your Answer	Score	Explanation
<input type="checkbox"/> The Breslow-Day test	<input checked="" type="checkbox"/> 0.20	<p>This is not a test you could use for assessing goodness of fit.</p> <p>The Breslow-Day test is used in stratified analysis for homogeneity of odds ratio</p>
<input type="checkbox"/> The Mantel Haenszel test	<input checked="" type="checkbox"/> 0.20	<p>This is not a test you could use for assessing goodness of fit.</p> <p>The Mantel Haenszel test is used in stratified analysis for homogeneity of odds ratio</p>
<input type="checkbox"/> The Likelihood Ratio test	<input checked="" type="checkbox"/> 0.20	<p>This is not a test you could use for assessing goodness of fit.</p> <p>The Likelihood Ratio test is used to check if the fitted model is better than the naïve model</p>
<input checked="" type="checkbox"/> The Pearson Chi-Squared test	<input checked="" type="checkbox"/> 0.20	This test can be used to assess goodness of fit.
<input checked="" type="checkbox"/> The Hosmer-Lemeshow test	<input checked="" type="checkbox"/> 0.20	This test can be used to assess goodness of fit.
Total	1.00 / 1.00	

Question 6

Suppose the area under the ROC curve is 0.785. What would that indicate?

Your Answer	Score	Explanation
<input type="radio"/> Outstanding discrimination		
<input type="radio"/> Excellent discrimination		
<input checked="" type="radio"/> Acceptable discrimination	✓ 1.00	Great job! We know this from Slide 32 of the Week Seven notes which shows the scale of discrimination from the area under the ROC curve.
<input type="radio"/> No discrimination		
Total	1.00 / 1.00	