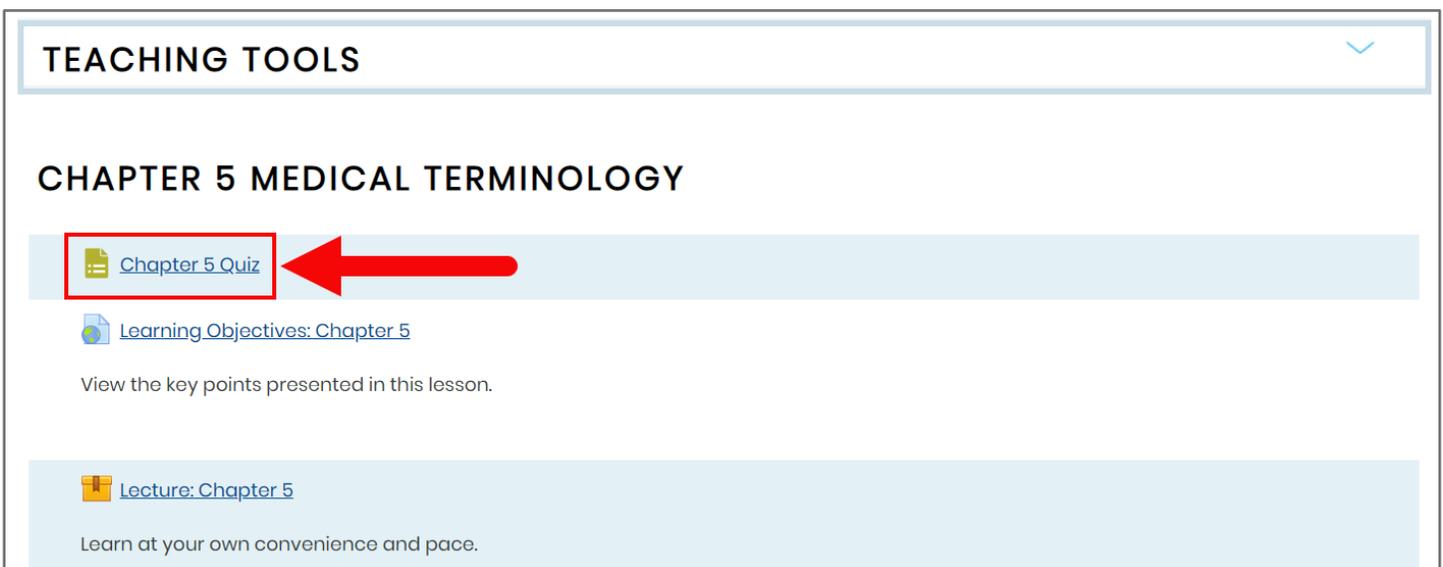


# How to Review Test Item Analysis of Students' Quiz Results

*This document contains instructions on how to view a statistical analysis of your students' assessment results online.*

1. Begin by navigating to and clicking on the quiz for which you would like to review a statistical analysis.



TEACHING TOOLS

## CHAPTER 5 MEDICAL TERMINOLOGY

 [Chapter 5 Quiz](#) ←

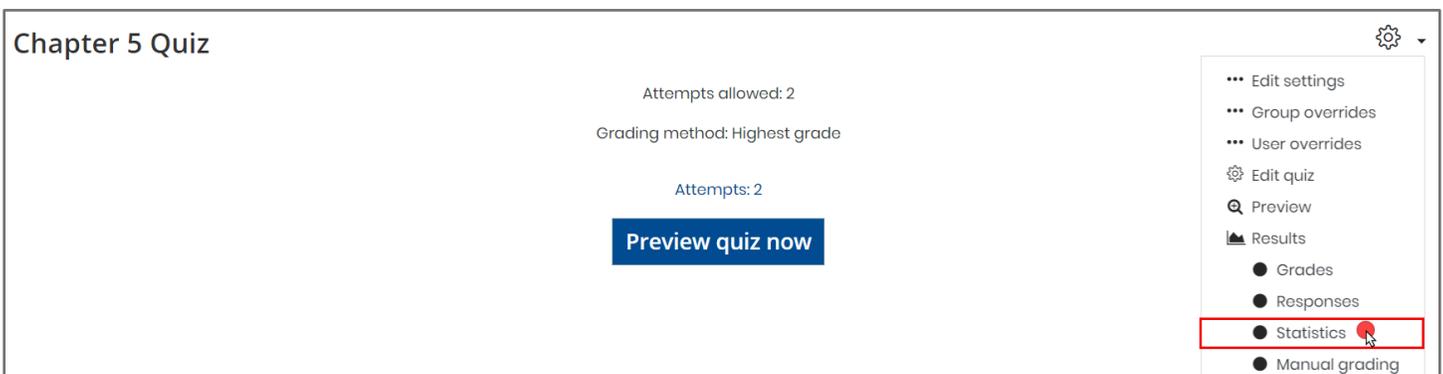
 [Learning Objectives: Chapter 5](#)

View the key points presented in this lesson.

 [Lecture: Chapter 5](#)

Learn at your own convenience and pace.

2. On the Quiz page, click the **Actions menu** and look for the **Results** section. Click on the **Statistics** option from the dropdown menu.



Chapter 5 Quiz

Attempts allowed: 2  
Grading method: Highest grade  
Attempts: 2

[Preview quiz now](#)

- Edit settings
- Group overrides
- User overrides
- ⚙️ Edit quiz
- 🔍 Preview
- 📊 Results
  - Grades
  - Responses
  - **Statistics**
  - Manual grading

3. The statistics page displays, beginning with the **Calculate statistics from** option, which allows you to specify which quiz attempts to include in your analysis.

**Chapter 5 Quiz**

▼ **Statistics calculation settings**

Calculate statistics from

highest graded attempt ▾

highest graded attempt

all attempts

first attempts

last attempt

Quiz information

4. The **Quiz information** section below reveals a summary of the all scores achieved by the collective class so far. These statistics include figures such as the total number of graded attempts and student averages across the attempts.

Quiz information

Download full report as Comma separated values (.csv) Download

Quiz name	Chapter 5 Quiz
Course name	Essential Access for Emergency Care and Transportation of the Sick and Injured, 11e (Bartlett - 7763BD)
Open the quiz	Monday, 11 May 2020, 8:00 AM
Close the quiz	Friday, 15 May 2020, 5:00 PM
Open for	4 days 9 hours
Number of complete graded first attempts	2
Total number of complete graded attempts	2
Average grade of first attempts	85.00%
Average grade of all attempts	85.00%
Average grade of last attempts	85.00%
Average grade of highest graded attempts	85.00%
Median grade (for highest graded attempt)	85.00%
Standard deviation (for highest graded attempt)	7.07%

5. The **Quiz structure analysis** section displays a list of all questions attempted by your students for the quiz, along with pertinent data and analysis in a grid format.

Quiz structure analysis

Download table data as Comma separated values (.csv) [Download](#)

Q#		Question name	Attempts	Facility index	Standard deviation	Random guess score	Intended weight	Effective weight	Discrimination index	Discriminative efficiency
1		"Chondro" in the word chondritis means:	2	100.00%	0.00%	25.00%	10.00%	0.00%		
2		"Gastro" in the word "gastroenteritis" means:	2	100.00%	0.00%	25.00%	10.00%	0.00%		
3		"Myo" in the word myocarditis means:	2	100.00%	0.00%	25.00%	10.00%	0.00%		
4		A 5-year-old boy has fallen and has a severe deformity of the forearm near the wrist. He has possibly sustained a fracture of the _____ forearm.	2	50.00%	70.71%	25.00%	10.00%	50.00%		
5		A diabetic patient has polydipsia. This means that she:	2	100.00%	0.00%	25.00%	10.00%	0.00%		
6		EMTs should have a strong working knowledge of medical terminology in order to:	2	100.00%	0.00%	25.00%	10.00%	0.00%		

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6. Importantly, the **Question name** column lists the body of each question, the **Attempts** column shows the collective number of times your students submitted an answer for the question, and the **Facility Index** column reveals the percentage of the submitted answers which were correct.

Quiz structure analysis

Download table data as Comma separated values (.csv) Download

Q#		Question name	Attempts	Facility index	Standard deviation	Random guess score	Intended weight	Effective weight	Discrimination index	Discriminative efficiency
1		"Chondro" in the word chondritis means:	2	100.00%	0.00%	25.00%	10.00%	0.00%		
2		"Gastro" in the word "gastroenteritis" means:	2	100.00%	0.00%	25.00%	10.00%	0.00%		
3		"Myo" in the word myocarditis means:	2	100.00%	0.00%	25.00%	10.00%	0.00%		
4		A 5-year-old boy has fallen and has a severe deformity of the forearm near the wrist. He has possibly sustained a fracture of the _____ forearm.	2	50.00%	70.71%	25.00%	10.00%	50.00%		
5		A diabetic patient has polydipsia. This means that she:	2	100.00%	0.00%	25.00%	10.00%	0.00%		
6		EMTs should have a strong working knowledge of medical terminology in order to:	2	100.00%	0.00%	25.00%	10.00%	0.00%		

7. If you included randomly selected questions in the quiz, a placeholder for the randomly selected question is labeled as **"Random."** This label is followed in parentheses by the test bank category from which it was selected.

10		Random (Chapter 05 - Quiz)	2	50.00%	70.71%		10.00%	50.00%		
10.1		After applying a tourniquet, the injury from a patient's leg stops bleeding. This is called:	1	100.00%			25.00%	10.00%		
10.2		The term "pericardiocentesis" means:	1	0.00%			25.00%	10.00%		

8. Each unique randomly selected question which was attempted by a student is then listed below the random question placeholder with an iterative identifier under the **Q#** (question number) column, such as 2.1, 2.2, 2.3 etc., to indicate that it is a variation of this question.

10			Random (Chapter 05 - Quiz)	2	50.00%	70.71%	10.00%	50.00%
10.1			After applying a tourniquet, the injury from a patient's leg stops bleeding. This is called:	1	100.00%		25.00%	10.00%
10.2			The term "pericardiocentesis" means:	1	0.00%		25.00%	10.00%

9. The quiz in this example included one randomly selected question from the Chapter 5 – Quiz category. I can see from the report that two of my students attempted this question and that there were two unique questions which were answered. In this case, one student answered his/her question correctly, while the other student answered his/her question incorrectly.

10			Random (Chapter 05 - Quiz)	2	50.00%	70.71%	10.00%	50.00%
10.1			After applying a tourniquet, the injury from a patient's leg stops bleeding. This is called:	1	100.00%		25.00%	10.00%
10.2			The term "pericardiocentesis" means:	1	0.00%		25.00%	10.00%

Answered correctly

100.00%

Answered incorrectly

0.00%

10. You may click on any individual question for additional class performance data for the specific item. The **Question information** section displays the question content, followed by the **Question statistics** section, which reveals the same calculations displayed for the question in the table shown on the Quiz statistics page.

Quiz structure analysis

Download table data as Comma separated values (.csv) Download

Q#	Question name	Attempts	Facility index	Standard deviation	Random guess score	Intended weight	Effective weight	Discrimination index
1	"Chondro" in the word chondritis means:	2	100.00%	0.00%	25.00%	10.00%	0.00%	
2	"Gastro" in the word "gastroenteritis" means:	2	100.00%	0.00%	25.00%	10.00%	0.00%	

*Note: A red callout bubble points to the question name in row 1, stating: "Click to view performance data for this question."*

Question information

Quiz	Chapter 5 Quiz
Question name	"Chondro" in the word chondritis means:  
Question type	☰ Multiple choice ☰
Position(s)	1

*Note: A red callout bubble is overlaid on the table, stating: "This page will appear next, displaying question information and statistics."*

"Chondro" in the word chondritis means:

Question statistics

Attempts	2
Facility index	100.00%
Standard deviation	0.00%
Random guess score	25.00%
Intended weight	10.00%
Effective weight	0.00%
Discrimination index	
Discriminative efficiency	

11. Below, in the **Analysis of responses** section, you will see data showing the count and frequency of the different responses that were submitted for this question.

Analysis of responses			
Model response	Partial credit	Count	Frequency
tendon.	0.00%	0	0.00%
rib.	0.00%	0	0.00%
cartilage.	100.00%	2	100.00%
joint.	0.00%	0	0.00%
[No response]	0.00%	0	0.00%

[Back to main statistics report page.](#)

12. The **Model response** column lists the available answer choices for the question. The adjacent **Partial credit** column reveals the credit given to the student based on any chosen answer.

Analysis of responses			
Model response	Partial credit	Count	Frequency
tendon.	0.00%	0	0.00%
rib.	0.00%	0	0.00%
cartilage.	100.00%	2	100.00%
joint.	0.00%	0	0.00%
[No response]	0.00%	0	0.00%

[Back to main statistics report page.](#)

13. Under the **Count** column, you will see the number of times each unique answer choice was submitted, while the **Frequency** column lists the percent of respondents in the class who selected each answer choice.

Analysis of responses			
Model response	Partial credit	Count	Frequency
tendon.	0.00%	0	0.00%
rib.	0.00%	0	0.00%
cartilage.	100.00%	2	100.00%
joint.	0.00%	0	0.00%
[No response]	0.00%	0	0.00%

[Back to main statistics report page.](#)

14. Click the **Back to main statistics report page** link at the bottom of this page to return to the general quiz statistics and continue your analysis.

Model response	Partial credit	Count	Frequency
tendon.	0.00%	0	0.00%
rib.	0.00%	0	0.00%
cartilage.	100.00%	2	100.00%
joint.	0.00%	0	0.00%
[No response]	0.00%	0	0.00%

 [Back to main statistics report page.](#)

15. The graphical chart at the bottom of the **Quiz statistics** page reveals the **Facility Index** and **Discriminative Efficiency** for each question. Each statistic may be hidden or revealed in the chart by clicking on it from the graph key.



16. Click the **Show chart data** link below the graph to reveal the same statistics shown in the graph in a numerical format below.



17. When finished, use the **Navigation path** at the top of the page to retrace your steps back to the quiz page, or click the course homepage button in the **Navigation drawer** to the left to return to the main course page.

The screenshot shows the course navigation interface. On the left is a dark blue navigation drawer with a red box around the course title 'Essential Access for Emergency Care and Transportation of the Sick and Injured, 11e'. A red callout bubble points to this box with the text 'Click to return to the main course page.' The main content area shows a breadcrumb trail: 'Dashboard > My courses > Essential Access for Emergency Care and Transportation of the Sick and Injured, 11e > Chapter 5 Medical Terminology > Chapter 5 Quiz > Results > Statistics'. The 'Chapter 5 Quiz' link is highlighted with a red box, and a red callout bubble points to it with the text 'Click to return to the quiz page.' Below the breadcrumb trail, the 'Chapter 5 Quiz' section includes a 'Show report' button. At the bottom, the 'Quiz information' section has a 'Download' button.