



UTAustinX: UT.7.20x Foundations of Data Analysis - Part 2



Bookmarks

- ▶ Important Pre-Course Survey
- ▶ Contact Us
- ▶ How To Navigate the Course
- ▶ Discussion Board
- ▶ Office Hours
- ▶ Week 0: Introduction to Data (Optional Review)
- ▶ Week 1: Sampling
- ▶ Week 2: Hypothesis

Week 6: Correlation and Regression > Pre-Lab > Draw Conclusions

Bookmark

Reflect on the Question

Analyze the Data

Draw Conclusions

Primary Research Questions

1) Can you confirm the claim that Beck Depression Inventory score is a significant predictor of Overall Quality of Life among students enrolled in the Clinical Sciences program?

2) For students enrolled in the Clinical Sciences program, examine the effects of DREEM: Social Self Perception, DREEM: Academic Self Perception, Resilience, BDI, and Age on Med School Quality of Life?

(10/10 points)

Testing (One Group Means)

- ▶ Week 3: Hypothesis Testing (Two Group Means)
- ▶ Week 4: Hypothesis Testing (Categorical Data)
- ▶ Week 5: Hypothesis Testing (More Than Two Group Means)

▼ Week 6: Correlation and Regression

Readings

Reading Check due May 03, 2016 at 17:00 UTC



Lecture Videos

Comprehension Check due May 03, 2016 at 17:00 UTC



R Tutorial Videos

Pre-Lab

Write Your Conclusion

Answer the question and support your answer with statistics:

To answer our primary research questions about Clinical Sciences med students, we conducted two primary tests: a simple linear regression and a multiple linear regression. First, we investigated the claimed effect of Beck Depression Inventory score on Overall Quality of Life.

There was a ✓ **Answer:** negative correlation between Beck Depression Inventory score and Overall Quality of Life. The corresponding model showed a

✓ **Answer:** significant simple slope for Beck Depression

Inventory ($t(489) = -8.935$) ✓ **Answer:** -8.935 , $p < 0.05$) indicating that as the Beck

Depression Inventory score increases, the Overall Quality of Life score ✓

Answer: decreases

The multiple linear regression examined the impact of DREEM: Social Self Perception, DREEM: Academic Self Perception, Resilience, BDI, and Age on Med School Quality of Life. Overall, the model was

✓ **Answer:** significant ($F(5,485) = 48.59$) ✓


Answer: 48.59 , $p < .05$), and could account for ✓ **Answer:** 33.37% of the

variance in the outcome (Adjusted $R^2 = 32.69\%$) ✓ **Answer:** 32.69%). The best predictor


of Med School Quality of Life was ✓

Answer: DREEM: Social Self Perception which could account for a unique proportion of variance in the outcome of ✓ **Answer:** 8.23% .


[Click here for a video explanation of how to answer this question.](#)

Pre-Lab due May 03, 2016 at
17:00 UTC 

Lab

Lab due May 03, 2016 at 17:00
UTC 

Problem Set

Problem Set due May 03, 2016
at 17:00 UTC 

You have used 1 of 1 submissions

© All Rights Reserved



© edX Inc. All rights reserved except where noted. EdX, Open edX and the edX and Open EdX logos are registered trademarks or trademarks of edX Inc.

POWERED BY
OPEN 

