



# How to write a great scientific report

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# Introduction

- ❑ Background — What does the literature say?
- ❑ Aim — What is the purpose of the report?
- ❑ Hypothesis — What is the specific question you are trying to address?



# Introduction

- ❑ Background — Stroke is a leading cause of disability
- ❑ Aim — Examined whether learning ability is impaired in stroke versus controls
- ❑ Hypothesis — We expect stroke patients to perform worse than controls on learning tasks



# Methodology

- ☐ What is your sample?
- ☐ Was your data pre-processed and if yes how and why?
- ☐ What variables did you include? Were they normally distributed or not? What tests did you include?



# Methodology

- ❑ 100 patients and 100 controls, Age, Gender etc
- ❑ We winsorised the data to get rid of outliers above 2.5 SD
- ❑ We included learning performance as the DV and patient group as the IV



# Results

- ☐ What statistical test was used and why?
- ☐ What are the statistical results?
- ☐ In simple words, what do they mean?
- ☐ Does this fit with your hypothesis?

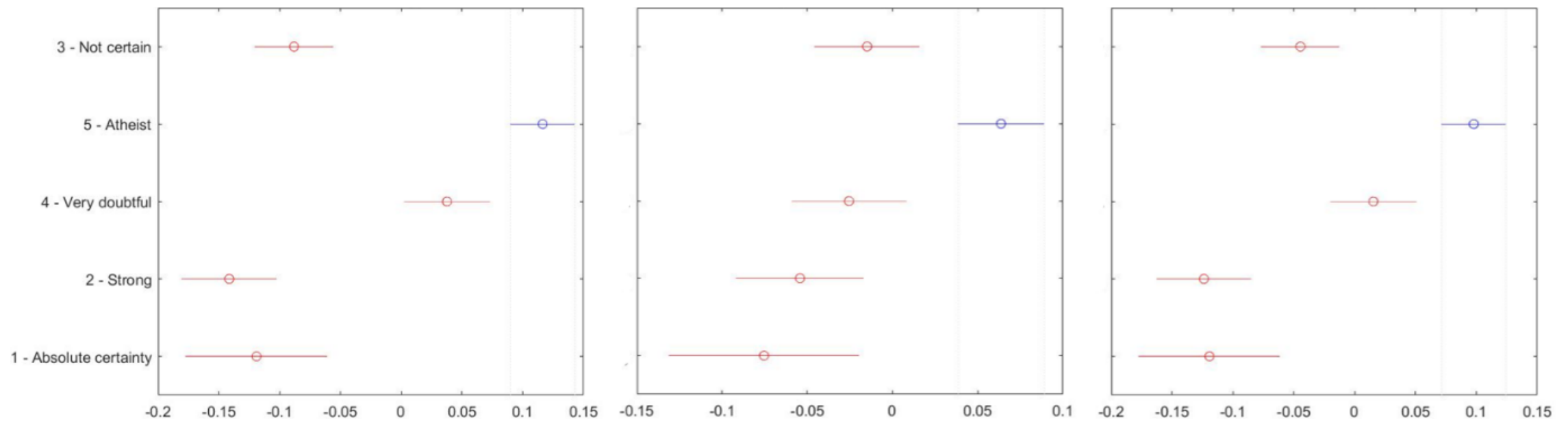


# Results

- ❑ Independent samples t-test was used to assess the group differences
- ❑ Patients showed impaired learning, compared to controls
- ❑ This is in line with our hypothesis

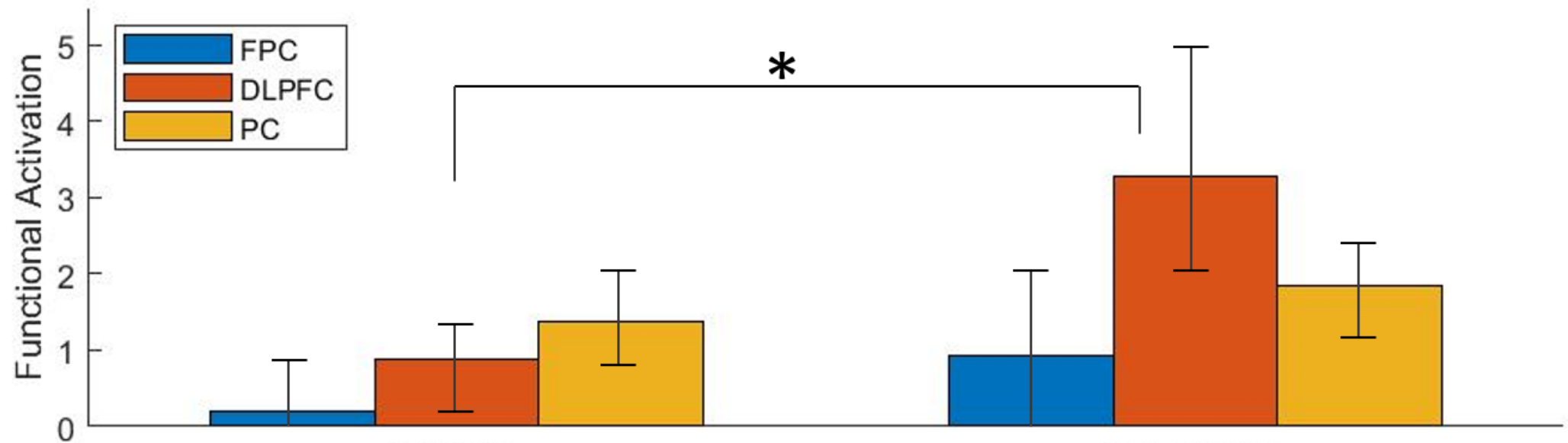


# Results





# Results



# Discussion

- ❑ Short summary of your results
- ❑ What do they mean and how do they compare with other studies?
- ❑ Limitations of your study, sample, design, analyses?
- ❑ Future directions



# Discussion

- ❑ Overall patients did worse than controls, as we expected.
- ❑ Other studies showed no effects. Why?
- ❑ Time since stroke? Severity?
- ❑ Separate different types of learning



# References

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- [4] Lack L, et al. *Brain sciences*. 2017 Apr;7(4):33
- [5] Harris J, et al. *Sleep*. 2012 Jan 1;35(1):49-60
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