

IReCaB research quiz 1

***Required**

1. Email *

2. Name *

Statistical packages

3. Which of the following are free statistical packages? *

1 point

Tick all that apply.

- ☐ R
- ☐ EpiData
- ☐ Zotero
- ☐ Epi Stats
- ☐ SPSS
- ☐ Stata

4. How confident are you with the answer you provided? *

Mark only one oval.

1 2 3 4 5

I am not sure ☐ ☐ ☐ ☐ ☐ I am 100% certain

Regression

5. Which of the following are types of regression? *

1 point

Tick all that apply.

- ☐ Linear regression
- ☐ Logistic regression
- ☐ Poisson regression
- ☐ Cox Harzard regression

6. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

Literature search

7. DOI stands for *

1 point

Mark only one oval.

- ☐ Data Optimization and Inference
- ☐ Data and Object Identification
- ☐ Descriptive Optimization Inference
- ☐ Digital Object Identifier

8. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

References

9. Which of the following are reference styles? *

1 point

Tick all that apply.

- ☐ Harvard
- ☐ End note
- ☐ Vancouver
- ☐ AMA
- ☐ APA
- ☐ Zotero
- ☐ Mendeley

10. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

Guidelines

11. The following are guidelines for reporting medical research except *

1 point

Mark only one oval.

- ☐ STROBE
- ☐ ICJME
- ☐ PRISMA
- ☐ CONSORT

12. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

Sample size

13. The sample size is determined by all of the following except *

1 point

Mark only one oval.

- ☐ Power
- ☐ Effect size
- ☐ Population size
- ☐ Confidence level
- ☐ Mortality

14. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

Manuscript writing

15. When submitting an article you will need the following documents *

1 point

Tick all that apply.

- ☐ Cover letter
- ☐ Manuscript
- ☐ Transcripts
- ☐ Figures

16. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

Hierarchy of evidence

17. Classify the following in order of hierarchy of evidence (1 is the highest, 6 is the lowest) *

6 points

Mark only one oval per row.

	1	2	3	4	5	6
Expert opinions	☐	☐	☐	☐	☐	☐
Cohort studies	☐	☐	☐	☐	☐	☐
Cross sectional studies	☐	☐	☐	☐	☐	☐
Case reports	☐	☐	☐	☐	☐	☐
Randomized controlled trials	☐	☐	☐	☐	☐	☐
Case-control studies	☐	☐	☐	☐	☐	☐

18. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

Ethics

19. Which of the following qualify as unethical research practices? *

1 point

Tick all that apply.

- ☐ Submit an article to multiple journals at the same time
- ☐ Modify the lighting or color on a pathology slide or microscopic image
- ☐ Award authorship to an acquaintance to thank them for their support and mentorship
- ☐ Use results from one of your previous studies without referencing them

20. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

Types of variables

21. Which of the following are types of quantitative variables? *

1 point

Tick all that apply.

- ☐ Nominal
- ☐ Continuous
- ☐ Discrete
- ☐ Ordinal

22. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

Types of research

23. This flow diagram is an output of a *

1 point

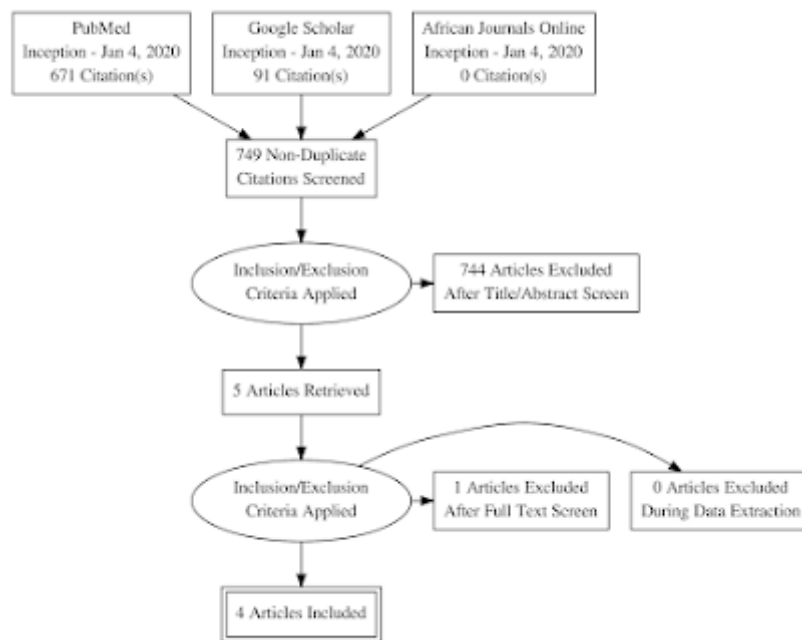


Fig. 1 PRISMA flow diagram of systematic review on neurosurgical patient perceptions in low- and middle-income countries outlining the number of initial non-duplicate citations screened, studies excluded, and the final 4 articles.

Mark only one oval.

- ☐ Case-control study
- ☐ Op-ed
- ☐ Systematic review
- ☐ Randomized controlled trial

24. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

Dissemination

25. The impact factor of journal is calculated from its *

1 point

Tick all that apply.

- ☐ Prestige
- ☐ Citations
- ☐ Number of articles published previously by the journal
- ☐ Scientific validity

26. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

Dissemination

27. Open access is a mechanism by which research outputs are distributed online, free of cost or other access barriers.

* 1 point

Mark only one oval.

- ☐ True
- ☐ False

28. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

Data analysis

29. Parametric data has *

1 point

Tick all that apply.

- ☐ A normal (Gaussian) distribution
- ☐ The mean equal to the median
- ☐ A large sample
- ☐ Has 95% of the population within 2 standard deviations

30. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

Dissemination

31. ResearchGate is a social media platform for researchers *

1 point

Mark only one oval.

- ☐ True
- ☐ False

32. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

Manuscript writing

33. The following are sections of a manuscript *

1 point

Tick all that apply.

- ☐ Abstract
- ☐ Discussion
- ☐ Methods
- ☐ Introduction
- ☐ Results
- ☐ Conclusion

34. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

Data analysis

35. What is the usual p-value? *

1 point

Mark only one oval.

- ☐ 1%
- ☐ 10%
- ☐ 5%
- ☐ 50%

36. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

Data analysis

37. Sentitivity *

1 point

Mark only one oval.

- ☐ measures the proportion of actual positives that are correctly identified as such
- ☐ measures the proportion of actual negatives that are correctly identified as such
- ☐ the probability that subjects with a positive screening test truly have the disease
- ☐ the probability that subjects with a negative screening test truly don't have the disease

38. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

Research design

39. A set of individuals selected from a statistical population by a defined procedure is a * 1 point

Mark only one oval.

- ☐ Sample
- ☐ Target population

40. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

Research design

41. Which of the following are forms of bias? 1 point

Tick all that apply.

- ☐ Individuals being more likely to be selected for study than others
- ☐ Differences in the accuracy or completeness of participant recollections of past events
- ☐ Researcher subconsciously influences the experiment

42. How confident are you with the answer you provided? *

Mark only one oval.

	1	2	3	4	5	
I am not sure	☐	☐	☐	☐	☐	I am 100% certain

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