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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **Basic course in Biomedical Research (course)**

 Announcements (announcements) **About the Course** (https://swayam.gov.in/nd1_noc19_ge33/preview)

Ask a Question (forum) Progress (student/home) Mentor (student/mentor)

Unit 3 - Cycle 1 (Sep-Dec 2019) Assignments

Course outline

Basic course in
Biomedical
Research : Cycle
2 (Mar-Jun 2020)

Text Transcripts

Cycle 1 (Sep-Dec 2019) Assignments

- ☐ Quiz :
Assignment 1:
Introduction to
health research
(assessment?
name=24)
- ☐ Quiz :
Assignment 2:
Formulating
research
question
(assessment?
name=25)
- ☐ Quiz :
Assignment 3:
Literature review
(assessment?
name=27)
- ☐ Quiz :
Assignment 4:

Assignment 18: Overview of data analysis

The due date for submitting this assignment has passed. **Due on 2020-01-03, 23:59 IST.**
As per our records you have not submitted this assignment.

1) The three stages of data analysis are in the following order

1 point

- ☐ a) Descriptive stage, analytical stage and recoding stage
- ☐ b) Recoding stage, descriptive stage and analytical stage
- ☐ c) Analytical stage, descriptive stage and recoding stage
- ☐ d) Descriptive stage, coding stage, recoding stage

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) Recoding stage, descriptive stage and analytical stage

2) We need to avoid the following while performing data analysis

1 point

- ☐ a) Post hoc analysis
- ☐ b) Data drenching
- ☐ c) Stratified data analysis
- ☐ d) 'a' and 'b'

No, the answer is incorrect.

Score: 0

Accepted Answers:

d) 'a' and 'b'

3) In the descriptive stage of analysis, we use logistic regression models

1 point

- ☐ a) True

Measures of disease frequency (assessment? name=28)

Quiz : Assignment 5: Descriptive study designs (assessment? name=29)

Quiz : Assignment 6: Analytical study designs (assessment? name=30)

Quiz : Assignment 7: Experimental study designs: Clinical trials (assessment? name=31)

Quiz : Assignment 8: Validity of epidemiological studies (assessment? name=32)

Quiz : Assignment 9: Qualitative research methods: An overview (assessment? name=33)

Quiz : Assignment 10: Measurement of study variables (assessment? name=34)

Quiz : Assignment 11: Sampling methods (assessment? name=35)

Quiz : Assignment 12: Calculating sample size and power (assessment? name=36)

☐ b) False

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) False

4) "Epi-Info" is a software used for data entry and data analysis

1 point

☐ a) True
☐ b) False

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) True

5) In analytical stage of data analysis, we perform the following in order

1 point

☐ a) Stratified analysis, univariate analysis and multivariate analysis
☐ b) Univariate analysis, stratified analysis and multivariate analysis
☐ c) Multivariate analysis, univariate analysis and stratified analysis
☐ d) Frequency analysis and univariate analysis

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) Univariate analysis, stratified analysis and multivariate analysis

6) Among the seven steps of data analysis strategy, the sequence of data analysis is as follows 1 point

(A) Conduct advanced analysis
(B) Identify main variables
(C) Become familiar with the data
(D) Identify study type
(E) Examine outcome/exposure association
(F) Characterize study population
(G) Create additional two-way tables

☐ a) A,B,C,D,E,F,G
☐ b) G,E,F,D,A,B,C
☐ c) D,B,C,F,E,G,A
☐ d) E,F,G,C,A,B,D

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) D,B,C,F,E,G,A

7) In case of descriptive studies, which of the following is wrong?

1 point

☐ a) We describe the study outcome for 1 group
☐ b) We compare the study outcome for 2 groups
☐ c) We calculate the incidence for cohort or surveillance data
☐ d) We calculate prevalence for cross sectional survey

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) We compare the study outcome for 2 groups

8) If we are doing an analytical study and the study outcome is of acute nature and rare condition what is the

1 point

○ Quiz :
Assignment 13:
Selection of
study population
(assessment?
name=37)

○ Quiz :
Assignment 14:
Study plan and
project
management
(assessment?
name=38)

○ Quiz :
Assignment 15:
Designing data
collection tools
(assessment?
name=39)

○ Quiz :
Assignment 16:
Principles of
data collection
(assessment?
name=40)

○ Quiz :
Assignment 17:
Data
management
(assessment?
name=41)

○ Quiz :
**Assignment
18: Overview of
data analysis
(assessment?
name=42)**

○ Quiz :
Assignment
19: Ethical
framework for
health research
(assessment?
name=43)

○ Quiz :
Assignment 20:
Conducting
clinical trials
(assessment?
name=44)

○ Quiz :
Assignment 21:
Preparing a
concept for
research
projects

appropriate (i) study design and (ii) measure of association?

- ☐ a) Cohort study - Relative risk
- ☐ b) Case-control study - Odds ratio
- ☐ c) Cross-sectional study - Prevalence ratio
- ☐ d) Surveillance - Incidence

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) Case-control study - Odds ratio

9) Analysis plan depends on

1 point

- ☐ a) Objectives of the study
- ☐ b) Budget
- ☐ c) Study type (Descriptive or analytical)
- ☐ d) 'a' and 'c'

No, the answer is incorrect.

Score: 0

Accepted Answers:

d) 'a' and 'c'

10) Use of spreadsheets, such as Excel, should be avoided for data management and analysis **1 point**

- ☐ a) True
- ☐ b) False

No, the answer is incorrect.

Score: 0

Accepted Answers:

a) True

(assessment?
name=45)

☐ Quiz :
Assignment 22:
Elements of a
protocol for
research studies
(assessment?
name=46)

☐ Quiz :
Assignment 23:
Publication
Ethics
(assessment?
name=48)