

## Sequence 11 - Research Ethics (24S1)

### Research Ethics - Research Responsibilities

In this activity, you need to match each research responsibility in the right column with its description in the left column. The aim here is for you to learn about your responsibilities as a researcher, so please read the descriptions carefully.

The score from this activity does not form a part of the final scores for this module. This activity is just a knowledge check of what you have learned so far.

#### 1. Match the research responsibility with its description.

Research institutions, journals and professional organisations should have procedures for responding to allegations of misconduct and for protecting those who report such behaviour in good faith. When misconduct is confirmed, appropriate actions should be taken promptly, including correcting the research record.	Responding to irresponsible research practices
Researchers should report to the appropriate authorities any suspected research misconduct, including fabrication, falsification or plagiarism, and other irresponsible research practices that undermine the trustworthiness of research, such as carelessness, improperly listing authors, failing to report conflicting data, or the use of misleading analytical methods.	Reporting irresponsible research practices
Researchers should employ appropriate research methods, based on conclusions on critical analysis of the evidence and report findings and interpretations fully and objectively.	Research methods
Researchers should be aware of and adhere to regulations and policies related to research.	Adherence to regulations
Researchers should take responsibility for the trustworthiness of their research.	Integrity

#### 2. Match the research responsibility with its description.

Researchers should take responsibility for their contributions to all publications, funding applications, reports and other representations of their research. Lists of authors should include all those and only those who meet applicable authorship criteria.	Authorship
Researchers should provide fair, prompt and rigorous evaluations and respect confidentiality when reviewing others' work.	Peer Review
Researchers should keep clear, accurate records of all research in ways that will allow verification and replication of their work by others.	Research Records
Researchers should share data and findings openly and promptly, as soon as they have had an opportunity to establish priority and ownership claims.	Research Findings
Researchers should acknowledge in publications the names and roles of those who made significant contributions to the research, including writers, funding parties, sponsors, and others, but do not meet authorship criteria.	Publication Acknowledgement

### 3. Match the research responsibility with its description.

Researchers should disclose financial and other conflicts of interest that could compromise the trustworthiness of their work in research proposals, publications and public communications as well as in all review activities.	Conflict of Interest
No matter what kind of research is being conducted, safety of all persons (and animals, if relevant) is paramount.	Safety
Researchers should limit professional comments to their recognised expertise when engaged in public discussions about the application and importance of research findings and clearly distinguish professional comments from opinions based on personal views.	Public Communication
Researchers and research institutions should recognise that they have an ethical obligation to weigh societal benefits against risks inherent in their work.	Societal Considerations
Research institutions should create and sustain environments that encourage integrity through education, clear policies, and reasonable standards for advancement, while fostering work environments that support research integrity.	Research Environments

### Self Testing Quiz - Research Ethics

Answer all the questions below:

1

State whether true or false.

To maintain trust between researcher and subject, it is important to remove identifiable private information from any published results.

Answer:

- True
- False

2

Select which of the given statements are correct for the given situation.

In the experiments on Guatemalans as outlined in the video, the problems included:

Choose at least one answer.

- Trial subjects were not informed.
- Trial subjects did not give consent.
- Trial subjects already had syphilis but were left untreated, even though penicillin was readily available.
- Trial subjects were chosen from vulnerable groups in society.
- It is possible the test subjects infected the whole community with gonorrhea.
- The experiments were conducted in Guatemala because there was less public scrutiny there compared to the USA.

3  
Select which of the given statements are correct for the given situation.  
In the experiments on African-American males in Tuskegee, Alabama:

Choose at least one answer.

- Trial subjects were injected with syphilis and not treated.
- Trial subjects already had syphilis but were left untreated, even though penicillin was readily available.
- Other doctors were prevented from treating the patients.
- The study was titled, "Untreated Syphilis in the Male Negro."
- The scientists never told the trial subjects they had the disease.
- The scientists justified the experiments by saying "These people helped improve the health of the community."
- The men were not treated because "it would interfere with the study [results]."

4  
State whether true or false.  
Research which is inaccurate or tainted by conflict of interest has little value.

Answer:

- True
- False

5  
Select which of the given statements are correct for the given situation.  
The 4 principles stated in the Singapore Statement on Research Integrity are:

Choose at least one answer.

- Honesty in all aspects of research.
- Accountability in the conduct of research.
- Safety is the highest priority of those involved in research.
- Professional courtesy and fairness in working with others.
- Good stewardship of research on behalf of others.

6  
State whether true or false.  
The tobacco industry funds research into "modified-risk" tobacco products. This is a conflict of interest.

Answer:

- True
- False

7

Harvard professor Marc Hauser was barred from teaching because \_\_\_\_\_.

Choose one of the following answers.

- He was guilty of scientific misconduct involving data acquisition, analysis, retention and reporting.
- He was guilty of scientific misconduct involving injecting patients with syphilis.
- He was guilty of conducting research for the tobacco industry, and this was a conflict of interest.

8

State whether true or false.

Researchers need to take responsibility for the trustworthiness of their research.

Answer:

- True
- False

9

FFP is the acronym for \_\_\_\_\_.

Choose one of the following answers.

- Fabrication, Falsification, and Plagiarism
- Fabrication, Felicitation, and Penance
- Fibrillation, Falsification, and Plagiarism

10

When conducting research, you need to know \_\_\_\_\_.

Choose one of the following answers.

- Government standards for conducting research
- Your company's research standards
- The standards of your profession
- All of the above

11

State whether true or false.

Research organisations should have procedures for reporting and responding to scientific misconduct.

Answer:

- True
- False

## Final Activity: Graded Quiz

You have reached the last compulsory activity for this session.

On the next page is a quiz, comprising ten multiple choice questions related to what we have covered in this sequence.

There is only one correct response to each question. You can attempt the quiz up to 3 times. Your score from your last attempt of the quiz **will count towards your overall grade** for this course.

2

Kim Weng wants to use a short paragraph from a published poem in his critique of Singapore poetry for his Singapore Literature class. He cites and references the poet in his assignment. Can this be considered "fair use" of copyrighted work?

Choose one of the following answers.

- Yes
- No

3

We want to use portions of a magazine article in an e-book we are writing. We'll be selling the e-book through Amazon. The safest way to avoid copyright infringement is to:

Choose one of the following answers.

- Attribute the source
- Use materials that do not bear the copyright symbol ©
- Seek permission from the copyright owner to use the work
- Buy a copy of the copyrighted work

5

What use of copyrighted works DOES NOT fall under "fair dealing" or "fair use" defense against copyright infringement?

Choose one of the following answers.

- Use for review or criticism
- Use for reporting of current events
- Use for charity fund-raising
- Use for private research and study purposes

7

A work that bears the Creative Commons notice is a work:

Choose one of the following answers.

- in which the copyright owner has totally relinquished his copy rights
- that is copyrighted for the internet
- **that gives the user some rights to share, use or modify the work**
- in which copyright has been registered

9

Which of the following works would be considered to be in the "Public domain"?

Choose one of the following answers.

- Works that do not bear the copyright sign ©
- Works that are freely available on the internet
- Works that are shared on a social media network
- **Works in which copyright has expired**

10

Discoveries can be copyrighted.

Choose one of the following answers.

- True
- **False**

11

What is considered a defense against copyright infringement?

Choose one of the following answers.

- Acknowledgement of the creator of the work
- Purchase of a copyrighted product
- **Fair use**
- Ignorance

13

Arun has purchased several songs from the iTunes store. As he has purchased the songs legally, he is allowed to create a CD compilation of these songs for his best friend. He may have committed copyright infringement.

Choose one of the following answers.

- **True**
- False

14

Mustafa is making a video for the company where he works on weekends. He wishes to add a music soundtrack. He believes this is OK since this is not written work, and so he does not seek permission from the copyright owner. Has he done the right thing?

Choose one of the following answers.

- Yes
- No

15

If you are using a published book for private study, you can make one copy of not more than 20% of the total number of pages from the book.

Choose one of the following answers.

- True
- False