

# Activity 1A: Thinking About the Study

## General Article Information



**Name of Study:** Rapamycin fed late in life extends lifespan in genetically heterogeneous mice

Authors:

Funding Source:

Information Sources:

Disclosures:

Health Science Content:

Describe the subjects or participants in the study:

Purpose of the study:

### Design of Article

- Newspaper/Internet
- Peer-Reviewed Journal
- Media/Magazine
- Web Article/Blog

✓ *Check what's correct*



**Words to define:** As you read the article, make a list of words that you do not understand. Look for definitions for these words in the support information.



### Study Design

**Type of investigation:** (Choose 1)

\_\_\_\_\_ **Descriptive investigation:**

- ➔ Collection was quantitative data: Used words that explained the measurements taken during the experiment
- ➔ Collection of qualitative data: Used words that described what happened in the experiment



# RAPAMYCIN

Thinking About  
the Study  
**activity 1A**

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## Thinking About the Study activity 1A

- **Comparative investigation:**
  - ➔ Collection of data on a variety of objects/organisms or features
  - ➔ Compares similarities and differences
- **Experimental investigation:**
  - ➔ Has independent variable (IV) and dependent variable (DV)
  - ➔ manipulates a variable
  - ➔ Outcome is determined by independent variables
  - ➔ Control group present



### Study Variables

#### Identify Variables in the Study

Identify the Independent Variable (IV) in the study.

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Identify the Dependent Variable (DV) in the study.

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Identify the constants (C) of the study.

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What was the control group for this experiment?

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What was the experimental group for this experiment?

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## Study Concepts

What is Rapamycin?

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What is mTOR?

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How does Rapamycin affect the cell's functions?

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What was the outcome of the study?

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Why were mice used in the study?

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Explain the difference between the lifespan of the male and female mice?

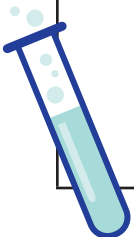
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Use information found in the "methods" section of the transformed article to fill in the table below.

Number of mice used for the study	Number of mice given rapamycin	Number of mice in the control



\*Modified article available - refer to teacher support



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