

# Proposal Outline



Name \_\_\_\_\_ Date \_\_\_\_\_

## Optimal Design

List the design details of your proposed optimal design.

Version #: \_\_\_\_\_

Day	1	2	3	4	5	6	7
Drug							
Dose							

## Design Decisions

For each criterion, list the pieces of evidence from your data analysis and background research that support your optimal design.

### Minimize Drug Resistance

#### DATA ANALYSIS

Final results:(%)

Design goal (%):

Drug A

Drug B

Drug C

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Comparison to another design:

#### BACKGROUND RESEARCH

Think about how your design choices affect the percentage of the parasite population with high resistance to each drug. How did dose size, number of days, or the combination of drugs used in the treatment affect drug resistance?

## Minimize Patient Side Effects

### DATA ANALYSIS

Final result:

Design goal:

Comparison to another design:

### BACKGROUND RESEARCH

Think about how your design choices affected the patient side effects. How did dose size, number of days, or the combination of drugs used in the treatment affect patient side effects?

## Keep Costs Low

### DATA ANALYSIS

Final result (\$):

Design goal (\$):

Comparison to another design:

### BACKGROUND RESEARCH

Think about how your design choices affected the total cost for 1000 treatments. How did dose size, number of days, or the combination of drugs used in the treatment affect the cost?