

HOW TO APPLY THE MULTIPHASE OPTIMIZATION STRATEGY (MOST) IN YOUR INTERVENTION DEVELOPMENT RESEARCH

**Module 4
Some conceptual and technical aspects of the
factorial experiment**

Lesson 6: Review of Module 4



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**SCHOOL OF GLOBAL
PUBLIC HEALTH**

Intervention Optimization Initiative

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- This lesson will review what you have learned in Module 4 and how it relates to course learning objectives.



Course learning objective

Learn how to:

- Relate the MOST framework to the objectives of intervention research

Module 4 learning objective: Interpret the meaning of main effects and interaction effects

- You have learned how to:
- Describe the regression model for a factorial experiment

Course learning objective: Relate the MOST framework to the objectives of intervention research

Module 4 learning objective: Interpret the meaning of main effects and interaction effects

- You have learned how to:
- Explain the difference between dummy coding and effect coding

Course learning objective: Relate the MOST framework to the objectives of intervention research

Module 4 learning objective: Interpret the meaning of main effects and interaction effects

- You have learned how to:
- Interpret main effects and interaction effects

Course learning objective: Relate the MOST framework to the objectives of intervention research

Module 4 learning objective: Apply the resource management principle when there is a cluster structure in data

- You have learned how to:
- Recognize when a cluster structure is present

Course learning objective: Relate the MOST framework to the objectives of intervention research

Module 4 learning objective: Apply the resource management principle when there is a cluster structure in data

- You have learned how to:
- Understand how a cluster structure can affect statistical power

Course learning objective: Relate the MOST framework to the objectives of intervention research

Course learning objective

Learn how to:

- Design and conduct a rigorous and efficient factorial optimization trial in a field setting

Module 4 learning objective: Discern whether the conclusion-priority or decision-priority perspective is appropriate

- You learned how to:
- Distinguish between the conclusion-priority and decision-priority perspectives

Course learning objective: Design and conduct a rigorous and efficient factorial optimization trial in a field setting

Module 4 learning objective: Discern whether the conclusion-priority or decision-priority perspective is appropriate

- You learned how to:
- Discern whether the conclusion-priority or decision-priority perspective is appropriate in a given situation

Course learning objective: Design and conduct a rigorous and efficient factorial optimization trial in a field setting

Module 4 learning objective: Understand the basics of powering a factorial experiment

Course learning objective: Design and conduct a rigorous and efficient factorial optimization trial in a field setting

Congratulations! You have completed
Module 4



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