

# Practicum: Design an Adaptive Intervention

The goal of this practicum is for you to develop a simple adaptive intervention in your research/clinical area. Below are some design questions to consider, based on our discussion in Module 1.

1. What is your rationale for the need for an adaptive intervention in your area?  
(Some examples: response heterogeneity, need for varying treatments, burden/cost)
  
2. What is your main distal outcome?  
(Consider: What do you want the AI to achieve over the long-term?)
  
3. What is(are) your main proximal outcome(s)?  
(For example: response-based, performance-based, engagement/adherence-based or some combination of these?)
  
4. What will your first-stage intervention be? What is your rationale for this choice? Are there multiple first-stage intervention options?

5. What will your second-stage intervention be? What is your rationale for this choice? Are there multiple second-stage intervention options?

6. What will your key tailoring variable be?  
(Consider: baseline variables or proximal outcomes, measurement method & frequency)

7. What will your decision rules be?  
(Consider: who is decision maker, how to implement, when to make decision, whether to guide/structure decision)

8. What are 2-4 critical scientific questions that you need to answer to develop this idea into a high-quality adaptive intervention?