



Opening Up The Black Box in Impact Evaluation of Health and Social Interventions: Introduction MCQs

1. What is the purpose of 'opening up the black box'? Select **one**.
 - a. To identify the difference between how an intervention works in a laboratory and real-world environment.
 - b. To uncover and understand the causal pathways and contextual factors that contribute to the observed outcomes in complex, real-world interventions.
 - c. To identify the individual, isolated variables that contribute to an intervention working or not working in a real-world environment.

2. What strategies and methodologies can be used to open up the black box? Select **all** that apply.
 - a. Process evaluation
 - b. Theory based evaluation
 - c. Moderator analysis
 - d. Mediator analysis
 - e. Implementation science
 - f. Mixed methods research
 - g. Realistic evaluation
 - h. Critical realist evaluation

3. Process evaluation includes the following... Select **all** that apply.
 - a. Its purpose is to understand how an intervention is implemented and operates in practice
 - b. It used mixed methods
 - c. It uses quantitative methods only
 - d. It is pragmatic
 - e. It considers fidelity
 - f. It considers contextual factors
 - g. It considers participant experiences

4. Theory-based evaluation includes the following... Select **all** that apply.
 - a. Its purpose is to test a theory of how an intervention is expected to work
 - b. It uses logic models
 - c. It links activities to results
 - d. It tests the steps and processes that lead from inputs to final outcomes

- e. It includes a theory of change
5. What is a moderator? Select **one**.
- Factors which change the impact of the intervention across different groups or conditions
 - Uncover the processes or variables through which the intervention produces its effects
6. What is a mediator? Select **one**.
- Factors which change the impact of the intervention across different groups or conditions
 - Uncover the processes or variables through which the intervention produces its effects
7. Moderator and Mediator analysis includes the following... Select **all** that apply.
- Its purpose is to statistically examine the factors that influence the intervention and the processes through which effects occur
 - Moderator analysis uses regression or interaction analysis
 - Mediator analysis uses pathway or structural equation modelling
8. Implementation Science includes the following... Select **all** that apply.
- Its purpose is to study the methods and strategies used to implement interventions and integrate them into practice
 - It uses an implementation framework
 - It supports knowledge for promoting the adoption and sustainability of interventions
 - It provides knowledge on what hinders an implementation working effectively
9. Realistic evaluation includes the following... Select **all** that apply.
- Its purpose is to understand how, why, for whom, and in what contexts an intervention works
 - It uses mixed methods
 - It uses qualitative methods only
 - It uses a COM (context, mechanisms and outcomes) configuration



- e. It uncovers the process or resources which lead to outcomes and analyses how different contexts impact the delivery and effectiveness of an intervention

10. Critical Realist Evaluation includes the following... Select **all** that apply.

- a. Its purpose is to identify and understand the causal mechanisms and structures which underpin observed outcomes
- b. It uses retrodiction and retrodution
- c. It tests a programme theory
- d. It uses mixed methods

For the answer key, please email nihrcmw@abdn.ac.uk

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