

Case Study: Cognitive Behavioral Therapy in Liberia

Theory of Change and Measuring Outcomes

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Objectives today

- Work through a real world example to show how a Theory of Change helps us:
 - Decide what research questions to ask
 - Decide what data to collect
 - Understand the assumptions required for an intervention to have an impact
- Discuss how to identify valid and reliable indicators for our outcomes

This case study is based on "<u>Reducing Crime and Violence: Experimental Evidence from Cognitive Behavioral Therapy in Liberia</u>" by Blattman, Jamison, and Sheridan (2017), American Economic Review.

Background

- Liberia experienced two civil wars from 1990-1996 and 2001-2003
- Despite tremendous progress, urban crime has been a persistent problem
- Many 'youth' aged 18-35 are at high risk of falling into crime
 - Came of age during the crisis
 - Missed-out on skills and education
 - Some are ex-combatants
 - Many feel marginalized by society



Photo: Carly Learson, UNDP (20 November 2014)

How to prevent at-risk youth from falling into crime?

- Usual responses:
 - 'Tough on crime' policing
 - Jobs & training
- Cognitive behavioral therapy (CBT)
 - Rooted in psychology and theories of rehabilitation
 - Teaches 'noncognitive' skills ('soft-skills') like self-control, mindfulness, self-reflection, and planning
 - Promotes a more positive, pro-social self-image



Photo: Carly Learson, UNDP (20 November 2014)

Cognitive Behavioral Therapy (CBT)

 Relative to alternatives, CBT is targeted and short-term, and therefore inexpensive

 But it's not a substitute for broader reforms targeting systemic or structural inequities that give rise to crime



Photo: Network for Empowerment and Progressive Initiatives (NEPI)

Sustainable Transformation of Youth in Liberia (STYL)

- Developed by the Network for Empowerment and Progressive Initiatives (NEPI)
 - Local NGO run by reformed, formerly at-risk street youth
- Consisted of
 - 8 weeks of group therapy
 - 4 hour group sessions, 3x/week
 - Mentorship by facilitators, many of whom graduated the program themselves



Photo: Network for Empowerment and Progressive Initiatives (NEPI)

Sustainable Transformation of Youth in Liberia (STYL)

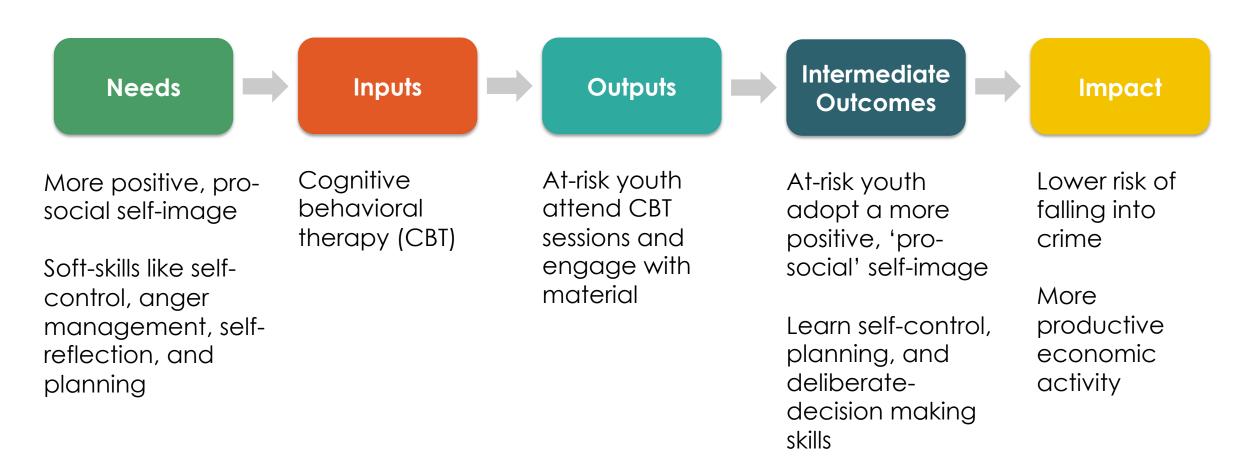
- Curriculum covered a variety of topics and activities:
 - Talk therapy to help recognize problematic behaviors and identify alternatives
 - Role playing to practice non-aggressive responses to provocations
 - Long-term planning
 - Practicing 'mainstream' behaviors like visiting a grocery store or bank



Program Activity: Exposure to "Mainstream" Behaviors

Men practice shopping for goods in a supermarket, using a bank, and other activities, and process successes and failures as a group.

Theory of Change for Cognitive Behavioral Therapy



Measurement concepts



Self-reported crime: a valid and reliable indicator of crime?

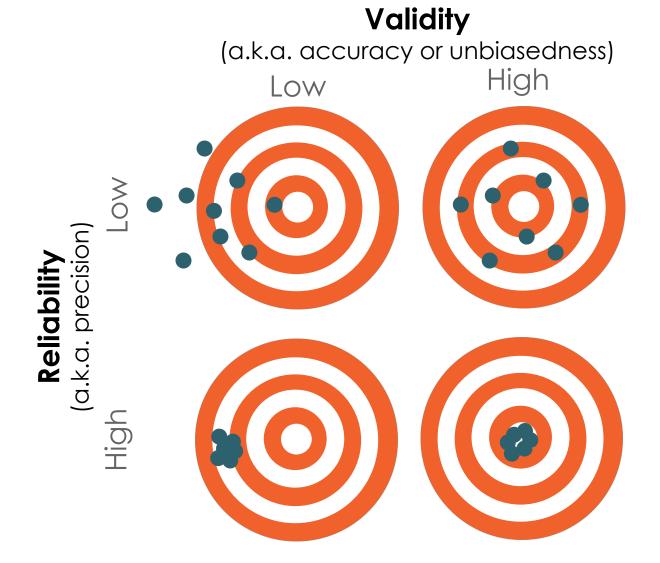
Number of crimes committed in the past two weeks: sum of 15 categories of self-reported crime

| 590 | In the last 2 weeks, have you done any pickpocketing? | 1-Yes, 0-No, 98-Refuse to |
|-----|---|---------------------------|
| | | answer |
| 591 | How many times? | Number Pad |

| 598 | In the last 2 weeks, have you done any armed robbery? | 1-Yes, 0-No, 98-Refuse to answer |
|-----|---|-------------------------------------|
| 599 | How many times? | Number Pad |

Source: Blattman, Jamison, and Sheridan (2017), Endline Survey

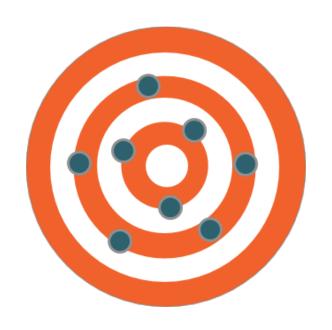
The Goals of Measurement



Scenario 1: Respondents answer truthfully and accurately

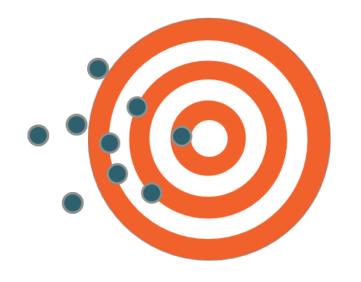


Scenario 2: Respondents answer truthfully but have trouble recalling # of crimes in the past two weeks



We can handle this scenario: Our measure is valid but not precise

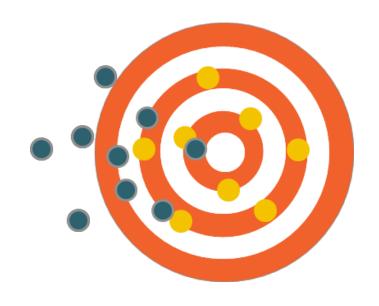
Scenario 3: Respondents do not answer truthfully





This scenario is problematic because it implies our measures are not valid

Scenario 4: Respondents in the comparison group answer truthfully but those in the treatment group do not



Measuring sensitive behaviors

How to improve the validity and reliability of self-reported outcomes?

Questionnaire design

- Frame sensitive questions in non-judgmental terms
- Build trust by following survey best practices
- Avoid questions that won't be well-received

Qualitative follow-up

 Consider validating survey measures with qualitative follow-up and/or indirect observation

Administrative data

 Use multiple sources of data (e.g. crime or arrest records from the police)



Thank you

References and additional resources

- "Reducing Crime and Violence: Experimental Evidence from Cognitive Behavioral Therapy in Liberia" (Blattman, Jamison, and Sheridan 2017)
- "Thinking, Fast and Slow? Some Field Experiments to Reduce Crime and Dropout in Chicago" (Heller et al. 2017)
- J-PAL Policy Bulletin: "<u>Practicing Choices, Preventing Crime</u>"
- J-PAL Evaluation Summary: "<u>The Impact of Cognitive Behavioral</u> <u>Therapy and Cash Transfers on High-Risk Young Men in Liberia</u>"
- J-PAL Research Resources: "Measurement & Data Collection"