

# Pre-Analysis Plan Modification 2

## Coping with War through God: Religion and the Promotion of Mental Health and Prosociality Among Refugees

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# 1 About This Pre-Analysis Plan Modification

This pre-analysis plan modification documents the changes to the follow-up survey design before the completion of the intervention and before starting the data collection for the follow-up survey. In this modification, we discuss the questions that we include in the follow-up survey to explore potential mechanisms. In addition, since the Turkish government increased its effort to arrest and deport Afghan refugees, we relaxed our criteria for compliance, which is discussed below.

## 2 Survey Design

### 2.1 Question on Prosociality

We will remove the questions on attitude toward non-Muslims. Based on the feedback from the baseline survey, the questions about non-Muslims were perceived to be controversial and open to misinterpretation. We remove these questions from the follow-up survey.

### 2.2 Exploring Mechanisms

We postulate that two mechanisms could make Islamically integrated CBT more effective than CBT: (1) more attention to otherworldly concerns and (2) more consistency with participants' religious beliefs. To test the first mechanism, the follow-up survey asks about the frequency of thinking, over the past seven days, about (a) afterlife, (2) resurrection, and (3) heaven. To explore the second mechanism, the survey includes questions on the frequency of conducting exercises taught in the training, in addition to the following questions:

- How satisfied are you with the training?
- To what extent did the training improve your ability to cope with negative feelings?
- To what extent were the training contents consistent with your values and beliefs?

We explore the mechanisms through which the intervention affects prosociality using the following question:

- What is the primary reason why help those unfortunate: feeling happy to help those who suffer, to support your qawm or countrymen, to seek God's rewards, or because of moral obligations?

## 2.3 Qualitative Interviews

To gain more insights into the mechanisms and how the intervention affects participants' coping skills and prosociality, we will conduct 70 qualitative interviews (40 interviews with female participants and 30 with male participants). The respondents will be randomly selected from the pool of participants—ten from each treatment arm and ten from the control groups. In addition to selecting randomly 70 participants, we will randomly select another 35 participants as the reserve respondents (five from each treatment arm and five from the control groups) to replace the main respondents who cannot be reached or interviewed. The qualitative interviews will explore the changes in participants' coping skills and their attitude and behavior toward out-groups and co-ethnics as a result of participation in the training sessions. The qualitative interviews will be conducted after the follow-up survey.

## 3 Compliance

In the original pre-analysis plan, we defined *compliance* as participation in at least 6 out of 7 sessions. After the start of the training sessions, however, the Turkish government further increased the surveillance of neighborhoods with predominant Afghan refugees, including Zeytinburnu, where this study was ran. Some respondents missed training sessions to avoid being stopped and questioned by the police. Given the stricter conditions that Afghan refugees faced than we had anticipated, we relax our assumption about compliance and consider compliant those participants who attended at least 5 out of 7 training sessions.

## 4 Effect Size

To calculate the effect size, we will use Cohen's  $d$ . We will calculate Cohen's  $d$  effect comparing the mean for control group with that of each treatment arm. In addition, we will also compare the effect size of Islamically integrated CBT with the effect size of CBT. We will use the following formula and correction if needed—when the sample size is smaller than 50.

$$d = \frac{Mean_1 - Mean_2}{sd_{pooled}} \times \left( \frac{N - 3}{N - 2.25} \right) \times \sqrt{\frac{N - 2}{N}} \quad (1)$$