

# Assessing the effects of a nature-based group therapeutic intervention on well-being and distress

<b>Submission date</b> 07/10/2024	<b>Recruitment status</b> No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered
<b>Registration date</b> 08/10/2024	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 07/10/2024	<b>Condition category</b> Mental and Behavioural Disorders	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data
		<input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

The nature-based intervention evaluated in this study is structured around the approach and exercises of Acceptance and Commitment Therapy, proven to reduce psychological symptomatology and improve well-being. Nature-based interventions have received empirical support for their contribution to the psycho-physical health of participants. However, the studies tend to be impact-oriented, and there is a lack of evidence on evaluations of such interventions in Iraq. The first aim of the present study is to evaluate a nature-based therapeutic intervention in improving well-being and reducing distress. An additional aim is to test whether therapeutic changes depend on factors such as participants' characteristics, including gender, age, previous negative life experiences, severity of initial concern, experienced autonomy and initial level of connection with nature and loneliness. Furthermore, the study will examine whether changes in well-being and distress are mediated by increases in cognitive flexibility, attention to the natural environment, connection to nature, and group belonging.

### Who can participate?

Mosul residents aged 18 years or older who gave informed consent to participate, had a depression score of less than 3 on the PHQ-2 and anxiety score of less than 3 on the GAD-2, and were free of acute suicidality and neurological impairment.

### What does the study involve?

Participants are randomly assigned to either the nature-based intervention group or a wait-list control group. Participants in the nature-based intervention group receive the intervention, which consists of 6 weekly group sessions. There will be separate groups for men and women. Participants in the control group do not receive the nature-based therapeutic intervention, but can receive treatment as usual. Both the nature-based therapeutic intervention and control groups are required to complete pre- and post-therapy questionnaires.

### What are the possible benefits and risks of participating?

It is expected that participants' well-being will benefit from participating in a nature-based therapeutic intervention. Answering survey questions may provide an opportunity for

participants to reflect and gain valuable insights into their improvements. In addition, the results of this study will provide practical and theoretical insights into the effectiveness of this intervention.

Answering questions during the interview may be distressing for participants. Participants will be informed and reminded that they can skip questions and withdraw from the study at any time with no consequences (including participation in the intervention). Participants will also be offered individual counselling if they are experiencing distressing thoughts/feelings related to their participation in the study. An additional risk of the trial concerns the control group and their waiting time for treatment. However, it is important to mention that the risks will be minimised by recruiting people with low scores for depression or anxiety and who are free of suicidality. Also, participants in the control group will not be discouraged from continuing with their usual treatment options and will be offered the opportunity to participate in the nature-based intervention in the next cycle following their participation in the trial.

Where is the study run from?

Hudara gGmbH organisation, Berlin, Germany.

When is the study starting and how long is it expected to run for?

February 2024 to February 2025.

Who is funding the study?

Hudara gGmbH organisation, Berlin, Germany.

Who is the main contact?

Dr Lena Schmid, [lschmid@hudara.org](mailto:lschmid@hudara.org)

## Contact information

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**Additional identifiers****Clinical Trials Information System (CTIS)**

Nil known

**ClinicalTrials.gov (NCT)**

Nil known

**Protocol serial number**

Nil known

**Study information****Scientific Title**

Effectiveness of a nature-based group therapeutic intervention on well-being and distress in participants with low levels of depression and anxiety: A randomised controlled trial assessing post-therapy changes

**Study objectives**

Participation in the nature-based therapeutic intervention is expected to lead to a significant improvement in well-being scores and a reduction in distress scores measured after the intervention, compared to the control group.

**Ethics approval required**

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**Ethics approval(s)**

approved 28/08/2024, Ministry of Health, Duhok Directorate General of Health (Duhok Directorate General of Health - Kurdistan Region of Iraq. Room 8, Floor 2, Dohuk, 42001, Iraq; +964 62 724 4601; info@duhokhealth.org), ref: #28082024-7-13

**Study design**

Single centre interventional two-arm randomised controlled study

**Primary study design**

Interventional

**Study type(s)**

Treatment

### **Health condition(s) or problem(s) studied**

Well-being and distress

### **Interventions**

The intervention group participates in the group nature-based intervention, which is delivered by 2 psychosocial workers who have participated in the training and are regularly supervised. The nature-based intervention is structured according to the Acceptance and Commitment exercises and consists of 6 weekly group sessions. Potential participants attend the first session and are assessed for eligibility. Those who meet the criteria are placed on the randomisation list, which is divided into male and female participants. Randomisation is carried out by the external person in the Excel file using the rand function and the participant codes. After randomisation, the control group is contacted to inform them that they have been randomly assigned to the control group. Participants in both the intervention and control groups complete pre- and post-therapy questionnaires.

### **Intervention Type**

Behavioural

### **Primary outcome(s)**

Well-being, measured by WHO-5 questionnaire at baseline (pre-therapy) and post-therapy (last session/6 weeks)

### **Key secondary outcome(s)**

Distress, measured by Kessler 10 questionnaire at baseline (pre-therapy) and post-therapy (last session/6 weeks)

### **Completion date**

15/02/2025

## **Eligibility**

### **Key inclusion criteria**

1. 18 or more years old
2. Gave informed consent for participation

### **Participant type(s)**

Resident, Population

### **Healthy volunteers allowed**

No

### **Age group**

Adult

### **Lower age limit**

18 years

### **Upper age limit**

100 years

**Sex**

All

**Key exclusion criteria**

1. Moderate to severe depression score (score of 3 or higher on PHQ-2)
2. Moderate or high anxiety score (score of 3 or higher on GAD-2)
3. Acute suicidality
4. Neurological impairments

**Date of first enrolment**

14/10/2024

**Date of final enrolment**

15/01/2025

**Locations**

**Countries of recruitment**

Iraq

**Study participating centre**

**Rawabet community center**

Yarmok al thaniya-west side of Mosul city

Mosul city

Iraq

41001

**Sponsor information**

**Organisation**

Hudara gGmbH

**Funder(s)**

**Funder type**

Research organisation

**Funder Name**

Hudara gGmbH

# Results and Publications

## **Individual participant data (IPD) sharing plan**

It is not planned to make the datasets generated and/or analysed during the current study available, as this was not planned from the outset and is not part of the participants' informed consents.

## **IPD sharing plan summary**

Not expected to be made available