

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

17 Jun 2026

### Effect of family-centered education on tele-nursing method on emotional reactions of mothers after bone marrow transplantation

#### Protocol summary

##### Study aim

Determining the effect of family-centered education on tele-nursing method on emotional reactions of mothers of children after bone marrow transplantation

##### Design

Clinical trials including control and intervention groups. Blind on one side. by accident

##### Settings and conduct

Children's Medical Center. Bone marrow transplantation ward

##### Participants/Inclusion and exclusion criteria

Mothers aged between 20 and 45. 2. Have complete satisfaction to participate in research. 3. Have reading and writing skills. 4. Absence of psychological disorders and psychotropic pill consumption at the start of research. 5. Lack of learning problems and diseases directly related to learning. 6. Having a smartphone and the ability to connect to the Internet and know how to use it

##### Intervention groups

33 Mothers who are trained through Whatsapp software

##### Main outcome variables

Emotional reactions

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20181112041628N1**

Registration date: **2019-01-19, 1397/10/29**

Registration timing: **registered\_while\_recruiting**

Last update: **2019-01-19, 1397/10/29**

Update count: **0**

##### Registration date

2019-01-19, 1397/10/29

#### Registrant information

##### Name

hadie solati

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 21 5540 4784

##### Email address

hadie.solti@gmail.com

#### Recruitment status

##### Recruitment complete

#### Funding source

##### Expected recruitment start date

2018-12-22, 1397/10/01

##### Expected recruitment end date

2019-03-20, 1397/12/29

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

#### Scientific title

Effect of family-centered education on tele-nursing method on emotional reactions of mothers after bone marrow transplantation

#### Public title

The Effect of Tele Nursing Training on the Mental Status of Mothers of Patients

#### Purpose

Education/Guidance

#### Inclusion/Exclusion criteria

##### Inclusion criteria:

1- Mothers aged between 20 and 45 2. Have complete satisfaction to participate in research 3- Have reading and writing skills 4. No psychiatric disorders and psychotropic drugs in the onset of research 5- No

learning problems and diseases that directly affect Learning has an impact. 6. Having a smartphone and the ability to connect to the Internet and know how to use it

**Exclusion criteria:**

Child's death during the research 2. Failure to connect to the Internet and lack of mother participation in the training process for one month or more 3- The mother's disease to mental problems and the need for psychedelic pills during the study period 4-Unwilling to participate in the study

**Age**

From **20 years** old to **45 years** old

**Gender**

Female

**Phase**

N/A

**Groups that have been masked**

- Participant

**Sample size**

Target sample size: **66**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

Samples were randomly waxed envelope in 33 individuals in the control group and 33 in the intervention group

**Blinding (investigator's opinion)**

Single blinded

**Blinding description**

After discharge, mothers will be randomly assigned to two groups of intervention and control. The control group and the intervention group will receive the training according to the routine section after the discharge, individually, and will contact the department in case of difficulty and the intervention group, in addition to the training, Individuals will receive tele nursing training in the Watts app and their problems will be reviewed and organized.

**Placebo**

Not used

**Assignment**

Parallel

**Other design features**

**Secondary Ids**

empty

**Ethics committees**

**1**

**Ethics committee**

**Name of ethics committee**

National Ethics Committee for Biomedical Research

**Street address**

Tehran University of Medical Sciences, Zargande street, Danesh alley

**City**

Tehran

**Province**

Tehran

**Postal code**

1331994591

**Approval date**

2018-10-06, 1397/07/14

**Ethics committee reference number**

IR.IAU.TMU.REC.1397.174

**Health conditions studied**

**1**

**Description of health condition studied**

Bone marrow transplantation

**ICD-10 code**

F30-F39

**ICD-10 code description**

Mood disorders

**Primary outcomes**

**1**

**Description**

Emotional reactions (depression, stress and anxiety)

**Timepoint**

40 day

**Method of measurement**

DAS questionnaire

**2**

**Description**

Emotional responses of mothers are measured after discharge

**Timepoint**

The next 40 days are measured again

**Method of measurement**

Depression and Anxiety Stress Measurement Questionnaire

**Secondary outcomes**

**1**

**Description**

stress

**Timepoint**

Before the intervention and 40 days after the intervention in the intervention group and in the control group, 40 days after the first and second

**Method of measurement**

depression anxiety Stress scale questionnaire

**2**

**Description**

Depression

**Timepoint**

Before the intervention and 40 days after the intervention in the intervention group and in the control

group, 40 days after the first and second

**Method of measurement**

depression anxiety Stress scale questionnaire

**3**

**Description**

Anxiety

**Timepoint**

Before the intervention and 40 days after the intervention in the intervention group and in the control group, 40 days after the first and second

**Method of measurement**

depression anxiety Stress scale questionnaire

**Intervention groups**

**1**

**Description**

The intervention group consisted of 33 mothers after discharge who were routinely trained in routine and individual care, as well as intermittently via Watts-up software for 40 days. routine and individual education package includes health, nutrition, treatment follow-up, and question and answer.

**Category**

Other

**2**

**Description**

Control group: The control group consisted of 33 nurses who received post-discharge education in a routine, individual and one-time delivery.

**Category**

Other

**Recruitment centers**

**1**

**Recruitment center**

**Name of recruitment center**

Children's Medical Center

**Full name of responsible person**

Hadie solati

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Children's Medical Center Hospital, Boulevard Keshavarz Tehran

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**Sponsors / Funding sources**

**1**

**Sponsor**

**Name of organization / entity**

Islamic Azad University

**Full name of responsible person**

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hashemian.f@iaups.ac.ir

**Web page address**

<http://www.iautmu.ac.ir/research/index.asp>

**Grant name**

**Grant code / Reference number**

**Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Islamic Azad University

**Proportion provided by this source**

100

**Public or private sector**

Public

**Domestic or foreign origin**

Domestic

**Category of foreign source of funding**

*empty*

**Country of origin**

**Type of organization providing the funding**

Academic

**Person responsible for general inquiries**

**Contact**

**Name of organization / entity**

Islamic Azad University

**Full name of responsible person**

Mohamad Sahebzamane

**Position**

Associate Professor

**Latest degree**

Ph.D.

**Other areas of specialty/work**

Medical Education

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## Person responsible for scientific inquiries

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## Person responsible for updating data

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## Sharing plan

### Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

### Study Protocol

No - There is not a plan to make this available

### Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

### Informed Consent Form

No - There is not a plan to make this available

### Clinical Study Report

Not applicable

### Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

### Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available