

# The impact of mothers' education on modifying the child's behavior during dental care

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<b>Registration date</b> 30/09/2024	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 30/09/2024	<b>Condition category</b> Oral Health	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

Dental fear and anxiety are significant challenges in pediatric dentistry. Effective behavior management is crucial when assessing the impact of dental anxiety, which may limit dental care either completely or partially. Parents, particularly mothers, play an important role in shaping their child's responses in the dental clinic, especially when negative dental experiences are involved. This study aims to evaluate how maternal awareness and education can change children's behavior.

### Who can participate?

Children and their mothers aged 6 to 12 years attending the Department of Pediatric Dentistry at Damascus University

### What does the study involve?

Mothers receive a brochure that provides information about their relationship with their child, their role in providing dental care, and strategies for establishing positive behavior in their children. The brochure also outlines desirable maternal behavior before and during treatment, as well as the preferred behaviors and appropriate language to use and avoid.

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

This study may contribute to changing the behavior of uncooperative children and enhancing their positive behavior, obtaining the required dental care and improving their oral health.

### Where is the study run from?

Damascus University (Syria)

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

June 2023 to March 2024

### Who is funding the study?

Damascus University (Syria)

Who is the main contact?

Mariam Sharaf, mariam96.sharaf@damascusuniversity.edu.sy, mariamsh576@gmail.com

## Contact information

### Type(s)

Public, Scientific, Principal investigator

### Contact name

Dr Mariam Sharaf

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## Additional identifiers

### Protocol serial number

4863

## Study information

### Scientific Title

The influence of maternal awareness and education on behavior modification in school-aged uncooperative children during dental care (interventional study)

### Study objectives

Educating mothers using brochures in order prepare children before receiving dental treatment improve the children's behavior during treatment.

### Ethics approval required

Ethics approval required

### Ethics approval(s)

approved 24/07/2023, Damascus University (Al-MazzeH Street, Damascus, 0000, Syria; +963 (0) 1133923000; dl.srd@damascusuniversity.edu.sy), ref: 4863

### Study design

Interventional study

### Primary study design

Interventional

### Study type(s)

Prevention, Quality of life, Efficacy

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

Modifying the behavior of uncooperative children during dental care

### **Interventions**

This interventional study involves 60 child–mother pairs who attended the Department of Pediatric Dentistry at Damascus University. The children aged 6 to 12 years exhibit negative or definitely negative behavior according to the Frankl behavior rating scale and require sealant placement on one of their permanent first molars.

Mothers will receive a brochure that provides information about their relationship with their child, their role in providing dental care, and strategies for establishing positive behavior in their children. The brochure also outlined desirable maternal behavior before and during treatment, as well as the preferred behaviors and appropriate language to use and avoid. One week later, the sealant is applied to one of the permanent first molars.

### **Intervention Type**

Behavioural

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

1. Behavior assessed using the Frankl Behavior Scale at the first visit and the treatment visit
2. Child's level of anxiety assessed using the Facial Image Scale at the first visit and the treatment visit

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

Dental anxiety in mothers measured using the Modified Dental Anxiety Scale (MDAS) at the first visit

### **Completion date**

01/03/2024

## **Eligibility**

### **Key inclusion criteria**

1. Children aged 6 to 12 years who displayed negative or definitely negative behavior according to the Frankl behavior rating scale
2. Visiting the pediatric dentistry department for the first time

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

Patient

### **Healthy volunteers allowed**

No

### **Age group**

Child

### **Lower age limit**

6 years

**Upper age limit**

12 years

**Sex**

All

**Total final enrolment**

65

**Key exclusion criteria**

1. Children with general health problems or limited communication abilities
2. Children with previous dental experiences, or suffering from acute tooth pain
3. Children whose mothers declined to participate in the study

**Date of first enrolment**

01/09/2023

**Date of final enrolment**

01/03/2024

**Locations****Countries of recruitment**

Syria

**Study participating centre****Damascus University**

Department of Pediatric Dentistry

Al-Mazzeah Street

Damascus

Syria

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**Sponsor information****Organisation**

Damascus University

**ROR**

<https://ror.org/03m098d13>

**Funder(s)**

**Funder type**

University/education

**Funder Name**

Damascus University

**Alternative Name(s)**

University of Damascus, , DU

**Funding Body Type**

Government organisation

**Funding Body Subtype**

Universities (academic only)

**Location**

Syria

## Results and Publications

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

The datasets generated during and/or analysed during the current study will be available upon request from Dr Mariam Sharaf (mariam96.sharaf@damascusuniversity.edu.sy, mariamsh576@gmail.com)

**IPD sharing plan summary**

Available on request