

# 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 checked="" 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

### EudraCT/CTIS number

Nil known

### IRAS number

### ClinicalTrials.gov number

Nil known

### Secondary identifying numbers

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-Mazzeah Street, Damascus, 0000, Syria; +963 (0) 1133923000; dl.srd@damascusuniversity.edu.sy), ref: 4863

**Study design**

Interventional study

**Primary study design**

Interventional

**Secondary study design**

Non randomised study

**Study setting(s)**

University/medical school/dental school

**Study type(s)**

Prevention, Quality of life, Efficacy

**Participant information sheet**

Not available in web format, please use the contact details to request a participant information sheet

**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 measure**

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

**Secondary outcome measures**

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

**Overall study start date**

01/06/2023

**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

### Age group

Child

### Lower age limit

6 Years

### Upper age limit

12 Years

### Sex

Both

### Target number of participants

60

### 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-MazzeH Street  
Damascus  
Syria  
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## Sponsor information

**Organisation**  
Damascus University

**Sponsor details**  
Al-MazzeH Street  
Damascus  
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+963 (0)1133923000  
dl.srd@damascusuniversity.edu.sy

**Sponsor type**  
University/education

**Website**  
<https://damascusuniversity.edu>

**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**

**Publication and dissemination plan**

Planned publication in a peer-reviewed journal

**Intention to publish date**

01/03/2025

**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