

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

Submission date 25/09/2024	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 30/09/2024	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
Last Edited 30/09/2024	Condition category 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

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Additional identifiers

Clinical Trials Information System (CTIS)

Nil known

ClinicalTrials.gov (NCT)

Nil known

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-Mazzeah 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

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

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes