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

Submission date
25/09/2024

Recruitment status
No longer recruiting

Registration date
30/09/2024

Overall study status
Completed

Last Edited
30/09/2024

Condition category
Oral Health

[ ] Prospectively registered
[ ] Protocol
[ ] Statistical analysis plan
[ ] Results
[ ] Individual participant data
[ ] 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

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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

Primary study design
Interventional

Study design
Interventional study

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-Mazzeh 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