

# Evaluation of the effectiveness of eye movement desensitization and reprocessing (EMDR) in reducing anxiety among children in the dental clinic

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|----------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Submission date</b><br>14/07/2026   | <b>Recruitment status</b><br>Recruiting  | <input type="checkbox"/> Prospectively registered<br><input type="checkbox"/> Protocol                                  |
| <b>Registration date</b><br>19/07/2026 | <b>Overall study status</b><br>Ongoing   | <input type="checkbox"/> Statistical analysis plan<br><input type="checkbox"/> Results                                  |
| <b>Last Edited</b><br>16/07/2026       | <b>Condition category</b><br>Oral Health | <input type="checkbox"/> Individual participant data<br><input checked="" type="checkbox"/> Record updated in last year |

## Plain English summary of protocol

Not provided at time of registration

## Contact information

### Type(s)

Public, Scientific, Principal investigator

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## Additional identifiers

## Study information

Scientific Title

Evaluation of the effectiveness of eye movement desensitization and reprocessing (EMDR) in reducing anxiety among children in the dental clinic: a randomized controlled trial

### **Study objectives**

This randomized controlled trial aims to test the effectiveness of EMDR in a pediatric dental setting using standard scales to determine the feasibility of this technique in clinical practice for reducing Anxiety.

### **Ethics approval required**

Ethics approval required

### **Ethics approval(s)**

Approved 03/03/2026, Research Ethics Committee, Syrian Private University (M5, Damascus, -, Syria; +963 116990221; info@spu.edu.sy), ref: DS-30032026-161

### **Primary study design**

Interventional

### **Allocation**

Randomized controlled trial

### **Masking**

Blinded (masking used)

### **Control**

Active

### **Assignment**

Parallel

### **Purpose**

Treatment

### **Study type(s)**

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

Dental anxiety and fear among children during dental treatment

### **Interventions**

Participants are randomly divided into two parallel groups in a 1:1 ratio using a computer-generated random sequence.. The control group receives traditional non-pharmacological behavioral techniques: tell-show-do and positive reinforcement. The experimental intervention group receives the same behavioral techniques used in the control group are used, in addition to Eye Movement Desensitization and Reprocessing (EMDR).

This is a single-session study. All assessments is completed within this single treatment session, and there is not subsequent follow-up periods or review visits.

### **Intervention Type**

Behavioural

**Primary outcome(s)**

1. Behavioural response/cooperation during dental treatment measured using Frankl Scale at During anaesthesia, during tooth drilling
2. Dental fear and anxiety measured using Children's Fear Survey Schedule-Dental Subscale (CFSS-DS) at Five minutes after the patient has been seated in the dental chair, before anaesthesia
3. Subjective distress level measured using Subjective Units of Distress Scale (SUDS) at Control group: immediately upon patient admission, immediately after anaesthesia, end of the treatment session; Experimental (EMDR) group: immediately upon patient admission, during the EMDR session, after the EMDR session, immediately after anaesthesia, during short bilateral stimulation cycles, after short bilateral stimulation cycles, end of the treatment session
4. Validity of cognition measured using Validity of Cognition (VOC) Scale at Experimental (EMDR) group only: after the patient is seated in the dental chair (after CFSS-DS assessment and before anaesthesia), immediately after anaesthesia, end of the treatment session; Control group: not recorded
5. Pulse and oxygen saturation measured using pulse oximeter at before and after anaesthesia, and at the end of the session.

**Key secondary outcome(s)****Completion date**

01/10/2026

**Eligibility****Key inclusion criteria**

1. The patient requires routine dental treatment, specifically a pulpotomy of primary molars (first or second upper molar, or first lower molar) on both the right and left sides, under local anaesthesia only
2. The patient has a moderate to high anxiety level according to the CFSS-DS scale
3. Parental and child consent is required

**Healthy volunteers allowed**

No

**Age group**

Child

**Lower age limit**

5 Years

**Upper age limit**

8 Years

**Sex**

All

**Total final enrolment**

130

**Key exclusion criteria**

1. Children with severe mental or physical disabilities that prevent communication or cooperation
2. Children with a history of severe psychological or neurological disorders
3. Children currently taking sedatives, anxiolytics, or anti-anxiety medications
4. Children who have had previous severe traumatic dental experiences within the last 6 months
5. Parents or children who refuse to provide a signed informed consent

**Date of first enrolment**

01/04/2026

**Date of final enrolment**

01/09/2026

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

Syria

**Sponsor information****Organisation**

Syrian Private University

**ROR**

<https://ror.org/01h8c9041>

**Funder(s)****Funder type****Funder Name**

Investigator initiated and funded

**Results and Publications****Individual participant data (IPD) sharing plan****IPD sharing plan summary**

Not expected to be made available