

Critically Appraised Topic (CAT)

Project Team:
10 A
Project Team Participants:
Eric, Chet, India, Teagan
Clinical Question:
How does blindness in patients affect their dental personal hygiene?
PICO Format:
P:
Patients with blindness
I:
Dental hygiene education
C:
No dental hygiene instruction
O:
Improved personal dental hygiene
PICO Formatted Question:
"In patients with blindness, does personalized oral hygiene instruction aid in improving oral health and reducing caries risk compared to lack of oral hygiene instruction?"
Clinical Bottom Line:
Specialized oral hygiene instruction does indeed improve oral health outcomes for blind individuals
Date(s) of Search:
2000-2020
Database(s) Used:
Pub-Med
Search Strategy/Keywords:
Blindness & dental oral hygiene
MESH terms used:
Blindness, dental, oral, hygiene
Article(s) Cited:
Debnath A, Srivastava BK, Shetty P, Eshwar S. New Vision for Improving the Oral Health Education of Visually Impaired Children- A Non Randomized Control Trial. J Clin Diagn Res. 2017;11(7):ZC29-ZC32. doi:10.7860/JCDR/2017/26515.10170
The Impact of Blindness on the Oral Health and the Perceived Need to Seek Treatment in a Community of Maltese Older Adults Schembri A*, Borg W, Santucci D and Attard N

Department of Oral Rehabilitation and Community Care, Faculty of Dental Surgery, University of Malta Received: June 01, 2018; Published: June 14, 2018

Study Design(s):

Non-randomized control trial

Reason for Article Selection:

Study was conducted with sufficient number of subjects (40)

Article(s) Synopsis:

40 visually impaired students at a school for blind were provided oral health education talk and a booklet in braille was delivered stressing on the importance of oral health. The study was aimed to assess the effectiveness of oral health innovative educative method among these visually impaired children.

Levels of Evidence: (For Therapy/Prevention, Etiology/Harm)

See <http://www.cebm.net/index.aspx?o=1025>

1a – Clinical Practice Guideline, Meta-Analysis, Systematic Review of Randomized Control Trials (RCTs)

1b – Individual RCT

2a – Systematic Review of Cohort Studies

2b – Individual Cohort Study

3 – Cross-sectional Studies, Ecologic Studies, “Outcomes” Research

4a – Systematic Review of Case Control Studies

4b – Individual Case Control Study

5 – Case Series, Case Reports

6 – Expert Opinion without explicit critical appraisal, Narrative Review

7 – Animal Research

8 – In Vitro Research

Strength of Recommendation Taxonomy (SORT) For Guidelines and Systematic Reviews

See article **J Evid Base Dent Pract 2007;147-150**

A – Consistent, good quality patient oriented evidence

B – Inconsistent or limited quality patient oriented evidence

C – Consensus, disease oriented evidence, usual practice, expert opinion, or case series for studies of diagnosis, treatment, prevention, or screening

Conclusion(s):

This oral health education module showed positive results. Oral health hygiene instruction and education did indeed improve oral health amongst these 40 children over the 6 month observation period.

