

INPLASY

INFLUENCE OF THE PREVIOUS OPEN BITE ON THE QUALITY OF LIFE RELATED TO ORAL HEALTH. A SYSTEMATIC REVIEW

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ADMINISTRATIVE INFORMATION

Support - Self financed.

Review Stage at time of this submission - The review has not yet started.

Conflicts of interest - None declared.

INPLASY registration number: INPLASY202370071

Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 18 July 2023 and was last updated on 18 July 2023.

INTRODUCTION

Review question / Objective How does the previous open bite influence the quality of life related to oral health, evaluated through a systematic review?

Rationale The research work will seek to provide information on how the anterior open bite significantly impacts and affects the quality of life of adolescents from the ages of 10 to 16 years due to the oral health problems that it can cause. In the same way, this research will be important in the clinical field since by exposing the relationship that exists between both variables, new prevention approaches will be proposed to take measures in the case at an early age and thus avoid that in the stage of adolescence where the more preoccupation with the appearance affects psychologically and socially.

Condition being studied Anterior open bite.

METHODS

Search strategy Quality of life, Oral Health, Open Bite, anterior open bite.

Participant or population Adolescents between the ages of 10 and 16 according to (UNICEF).

Intervention Anterior open bite.

Comparator Proper bite.

Study designs to be included Observational studies and clinical cases.

Eligibility criteria Adolescents from 10 to 16 years old who present anterior open bite. The choice of studies will be based on 2 periods. In the first period, the two authors will analyze indistinctly the titles and/or abstracts, also including references that complied with the eligibility criteria, focusing especially on adolescents due to the transition of stages. Low relevance documents with little

information and that do not focus on adolescents will be excluded. In the second phase, the authors themselves will independently examine the full texts, including articles that met the selection standards. In case of discrepancy on the part of the authors, the inclusion of the article will be determined with the help of the advisor.

Information sources The search methods will be found in the following electronic data banks until February 15, 2023; EBSCO, MEDLINE (Via PubMed), SCOPUS, LILACS and GOOGLE SCHOLAR. The search method will be limited specifically to humans, with no age restriction, and no language restriction. The exploration restrictions were carried out for the MEDLINE, SCOPUS, EBSCO, GOOGLE SCHOLAR databases through the Southern Scientific University.

Main outcome(s) Quality of life related to oral health.

Additional outcome(s) None.

Data management The choice of studies will be based on 2 periods. In the first period, the two authors will analyze indistinctly the titles and/or abstracts, also including references that complied with the eligibility criteria, focusing especially on adolescents due to the transition of stages. Low relevance documents with little information and that do not focus on adolescents will be excluded. In the second phase, the authors themselves will independently examine the full texts, including articles that met the selection standards. In case of discrepancy on the part of the authors, the inclusion of the article will be determined with the help of the advisor. The exploration restrictions were carried out for the MEDLINE, SCOPUS, EBSCO, GOOGLE SCHOLAR.

Quality assessment / Risk of bias analysis Risk of bias assessment will be performed using the Risk of Bias in Nonrandomized Studies of Interventions (ROBINS) tool in non-randomized controlled trials. The following will be analysed: confounding bias, participant selection bias, intervention classification bias, missing data bias, outcome measurement bias based on information and classification, selective outcome reporting bias. According to the options in each domain they are: low, moderate, severe risk of bias and no information.

Strategy of data synthesis Data subtraction will be obtained from the documents included autonomously and copied by 2 authors (JRH and GVM). An established table will be used to extract

the information. The following references will be extracted: authors, year in which it was published, type of study, presentation of the groups (sex and age), characteristics of the sample used and the results.

Subgroup analysis This systematic review will evaluate the number of articles that look at the variable with the same measurement method and in the same units, if there will be performed more than three articles with the same type of review, a meta-analysis.

Sensitivity analysis This systematic review will evaluate the number of articles that look at the variable with the same measurement method and in the same units, if there are more than three articles with the same type of review, a meta-analysis will be performed.

Language restriction It will be limited to English, Portuguese and Spanish languages only.

Country(ies) involved Perú.

Other relevant information None.

Keywords Quality of life, Oral Health, Open Bite, anterior open bite.

Dissemination plans Once the project is completed, dissemination is sought through the publication of the article in a specialized magazine in the area.

Contributions of each author

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Author 2 - Jazmin Estephany Rodriguez Huaranga - manuscript editor.

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Author 3 - Luis Ernesto Arriola Guillén - The author provided statistical expertise; The author contributed to the development of the selection criteria, and the risk of bias assessment strategy.

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