

# INPLASY

## Oral Impacts on Daily Performance questionnaire – A Reliability generalisation meta-analysis of the Cronbach's alpha

INPLASY202410060

doi: 10.37766/inplasy2024.1.0060

Received: 15 January 2024

Published: 15 January 2024

Kalyana, CP<sup>1</sup>; Deepika, CH<sup>2</sup>; Vijay, K<sup>3</sup>.

### Corresponding author:

Kalyana Pentapati

drkalyan81@gmail.com

### Author Affiliation:

Manipal Academy of Higher Education.

### ADMINISTRATIVE INFORMATION

**Support** - Nil.

**Review Stage at time of this submission** - Preliminary searches.

**Conflicts of interest** - None declared.

**INPLASY registration number:** INPLASY202410060

**Amendments** - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 15 January 2024 and was last updated on 15 January 2024.

## INTRODUCTION

**Review question / Objective** This review aimed to estimate the pooled reliability coefficients of the OIDP questionnaire. It also aims to evaluate the role of moderator variables on the reliability coefficients.

**Rationale** Oral conditions can have substantial impact on the quality of life. Many questionnaires have been developed in the past to measure the impact on the oral health related quality of life. One such instrument is the Oral Impacts on Daily Performance (OIDP). Many studies globally demonstrated the validity and reliability of this questionnaire. However, there were no attempts to evaluate the pooled estimates of OIDP questionnaire.

**Condition being studied** Oral Impacts on Daily Performance.

## METHODS

**Search strategy** Keywords: Oral Impacts on Daily Performance OR OIDP. A systematic search of four databases (Pubmed, Scopus, Embase and CINAHL) would be performed from inception to January 4th, 2024. Screening of the reference lists of the included studies would be done to identify any eligible studies. Search includes terms like Oral Impacts on Daily Performance and OIDP would be included.

**Participant or population** Adults.

**Intervention** Not applicable.

**Comparator** Not applicable.

**Study designs to be included** Studies that report Cronbach's alpha for OIDP questionnaire.

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**Eligibility criteria** Studies that used OIDP questionnaire which reported the Cronbach's alpha and those reported in English will be included. Studies that are reported as letters or editorials and brief reports will be excluded.

**Information sources** Pubmed, Scopus, Embase and CINAHL.

**Main outcome(s)** Internal consistency of OIDP questionnaire (Cronbach's alpha).

**Data management** Data management: Two trained review authors will do the data extraction independently. Information on authors, year of publication, country, sample size, age, gender, target population, language of administration, mode of administration, conditions studied for, study setting, study design and patient selection. Discrepancies will be resolved by third review author.

**Quality assessment / Risk of bias analysis** Quality assessment: Risk of bias would be assessed using COSMIN risk of bias checklist for internal consistency. Each study will be evaluated using items on design requirements and statistical methods rated on four point scale (very good, adequate, doubtful or inadequate). Subsequently, an overall score for the assessment of a given measurement property is obtained by taking the lowest score for any of the items (worst score counts method).

**Strategy of data synthesis** Data synthesis: Heterogeneity would be assessed using I<sup>2</sup> and Q statistic. Reliability generalization would be performed using Jamovi software. Random effects model would be used. Publication bias would be assessed using regression plots. Moderator analysis would be performed using Mixed effects model.

**Subgroup analysis** If data is available, a subgroup analysis would be performed for various predictors that may influence the reliability estimates.

**Sensitivity analysis** If applicable, sensitivity analysis will be performed.

**Language restriction** English.

**Country(ies) involved** India.

**Keywords** Oral health quality of life, OIDP, reliability, cronbach's alpha, internal consistency.

### Contributions of each author

Author 1 - Kalyana Pentapati - Conceptualization, Screening, Data analysis, Manuscript writing.

Email: drkalyan81@gmail.com

Author 2 - Deepika Chenna - Screening, Risk of Bias, Manuscript writing.

Email: deepu.kkd@gmail.com

Author 3 - Vijay Kumar - Screening, Risk of Bias, Manuscript writing.

Email: vijaytvpm24@gmail.com