INPLASY PROTOCOL

To cite: Atuncar et al. Association between chewing function and cognitive function in adults: A systematic review. Inplasy protocol 2022120054. doi: 10.37766/inplasy2022.12.0054

Received: 14 December 2022

Published: 14 December 2022

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Support: **Resources will not be received from other people.**

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

Conflicts of interest:
None declared.

Association between chewing function and cognitive function in adults: A systematic review

Atuncar, M[1], Uchima, K[2], Dulanto, J[3], Carranza, K[4].

Review question / Objective: **Is there an association between masticatory function and cognitive function in adults?**
Condition being studied: **The masticatory function is the ability and efficiency of chewing, the human being performs movements of the orofacial muscles which we call chewing and cognitive function is a set of actions where verbal and non-verbal activities are exercised, they are evaluated by means of objective or subjective tests or questionnaires.**
Information sources: **The MEDLINE (PubMed), Embase, Scopus and SciELO will be searched by two independent reviewers. The search will be performed without restrictions on dates or language and included those conducted in human subjects.**

INPLASY registration number: This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 14 December 2022 and was last updated on 14 December 2022 (registration number INPLASY2022120054).

INTRODUCTION

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Condition being studied: **The masticatory function is the ability and efficiency of chewing, the human being performs movements of the orofacial muscles which we call chewing and cognitive function is a set of actions where verbal and non-verbal activities are exercised, they are evaluated by means of objective or subjective tests or questionnaires.**

METHODS

Participant or population: Adults patients (at least 18 years old) without systemic diseases.

Intervention: Decreased masticatory function.

Comparator: Normal chewing function.

Study designs to be included: Observational studies.

Eligibility criteria: Duplicate articles, articles with inconsistent data or results and studies where they evaluate masticatory function with self-reported questionnaires.

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Main outcome(s): Cognitive function impairment.

Additional outcome(s): Not applicable.

Quality assessment / Risk of bias analysis: The Newcastle-Ottawa tool will be used for observational studies.

Strategy of data synthesis: Meta-Analysis will be not performed.

Subgroup analysis: Subgroups will be not performed.

Sensitivity analysis: Sensitivity analysis will be not performed.

Language restriction: English.

Country(ies) involved: Lima, Perú.

Keywords: Cognition, mastication and systematic review.

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