

# INPLASY

## A Systematic Review and Meta-Analysis of the Dental Claims After Iatrogenic Injuries in Oral Surgery and Dental Implants

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### ADMINISTRATIVE INFORMATION

**Support** - None.

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

**Conflicts of interest** - None declared.

**INPLASY registration number:** INPLASY202420091

**Amendments** - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 21 February 2024 and was last updated on 21 February 2024.

## INTRODUCTION

**Review question / Objective** To analyze the dental claims after iatrogenic injuries; specifically in oral surgery and dental implants.

**Condition being studied** The aim of this systematic review with meta-analysis was to analyze the dental claims after iatrogenic injuries, specifically in oral surgery and dental implants.

## METHODS

**Participant or population** Patients who have undergone dental treatment of any kind and have reported or complained about malpractice.

**Intervention** Dental treatment; specifically oral surgery or dental implant placement.

**Comparator** Dental specialties.

**Study designs to be included** Retrospective and transversal observational studies.

**Eligibility criteria** Inclusion criteria: studies recorded in databases as retrospective and transversal observational studies of legal databases. The review was not restricted to only retrospective and transversal observational studies due to the paucity of studies with such an experimental design and with external validity, but also to provide a complete picture of the topic. Studies with samples of patients aged 18 years old or over, patients treated with the complaints from patients from different parts of the world and from any dental specialty were included. No restriction was placed on the year of publication or language. Exclusion criteria: systematic literature

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reviews, clinical cases, case series up to three patients and editorials; studies including patients under the age of 18 years old; studies with samples of three or fewer patients, dental injuries related with general anesthesia and sexual complaints were excluded.

**Information sources** An electronic search will be conducted in the following databases: PubMed, Scopus and Web of Sciences.

**Main outcome(s)** Not reported.

**Quality assessment / Risk of bias analysis** Publication bias will be performed using the Trim and Fill method to adjust the asymmetry of the funnel plot.

**Strategy of data synthesis** The studies selected will be included in the meta-analysis by subgroups and combined using a random effects model to estimate as a measure of effect the proportion of claims according to the dental specialties with respect to the total claims.

**Subgroup analysis** The studies selected will be included in the meta-analysis by subgroups and combined using a random effects model to estimate as a measure of effect the proportion of claims according to the dental specialties with respect to the total claims.

**Sensitivity analysis** Not required.

**Country(ies) involved** Spain.

**Keywords** Dentistry; negligence; liability; malpractice; compensation; claim; dental injury.

#### **Contributions of each author**

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