

# "Clinical Dentistry Effects of Covid 19"

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**Abstract:** The aim of this study was to determine the rate of cracks and other etiologic factors during the period of March 16th to May 31st in 2020 (COVID-19 initial outbreak) and 2021 (COVID-19 ongoing pandemic) compared with figures from the same period in 2019 (pre-COVID era) in 2 endodontists' practices.

**Keyword:** Cracked teeth, endodontists' practices,

## Introduction

There is lack of data on whether the coronavirus disease 2019 (COVID-19) pandemic was associated with changes in the etiology of pathosis in endodontic patients. The aim of this study was to determine the rate of cracks and other etiologic factors during the period of March 16th to May 31st in 2020 (COVID-19 initial outbreak) and 2021 (COVID-19 ongoing pandemic) compared with figures from the same period in 2019 (pre-COVID era) in 2 endodontists' practices.

## Methods

The etiologies of patients' chief complaints were determined from records of 2440 teeth (740 in 2019, 651 in 2020, and 1049 in 2021). Changes in the proportion of etiologic factors among all 3 periods were analyzed. The association between the rate of cracked teeth and patients' age and sex was determined using a logistic regression model.

## Results

The rates of all etiologies collectively during the studied periods showed a significant change ( $P < .0001$ ). The rate of cracks significantly increased in 2020 (11.8%) ( $P = .0001$ ) and 2021 (8%) ( $P = .0018$ ) compared with 2019 (4.3%). The rate of persistent infections decreased in 2020 (22.3%) ( $P = .0013$ ) and then increased in 2021 (27.5%) ( $P = .0153$ ) compared with 2019 (30%). Cracked teeth were associated with the age group of 40–60 years (odds ratio [OR] = 1.882; 95% confidence interval [CI], 1.063–3.330) in 2020 and with age ranges of 40–60 years (OR = 2.051; 95% CI, 1.120–3.759) and >60 years (OR = 2.038; 95% CI, 1.050–3.956) and male sex (OR = 1.599; 95% CI, 1.019–2.510) in 2021.

## Conclusions

The rate of cracked teeth increased during the initial outbreak of the COVID-19 pandemic and 1 year later. This study provided evidence on the association between the COVID-19 pandemic and changes in the rate and presentation of endodontic etiologic factors

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