



Clinical Management of Pre-Eruptive Lesions: General and Pediatric Dentists' Approach

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Introduction

- ✓ Pre-eruptive intra-coronal resorption (PEIR) is a term used to describe an anomaly presenting as an abnormal, well-circumscribed, radiolucent area, often occurring within the coronal dentinal tissue close to the DEJ of unerupted teeth.
- ✓ During eruption, micro-organisms from the oral cavity may ingress into the resorptive defect (leading to further breakdown). If left untreated, PEIRs may progress into the dental pulp.
- ✓ PEIRs have an unknown etiology, and their general prevalence in the permanent dentition is between 2-6%.

Purpose

- ✓ The aim of this project was to analyze general practitioners' (GP) and pediatric dentists' (PD) approach to multiple clinical scenarios involving PEIRs.

Methods

- ✓ An electronic survey was emailed to general and pediatric dentists in Florida and North Carolina.
- ✓ Survey questions and images displayed were based on well-documented, published case reports and they explored the management of different PEIRs.
- ✓ Survey takers' responses were compared to how actual cases were treated and were analyzed separately for both groups.

Surveys Sent

7,746

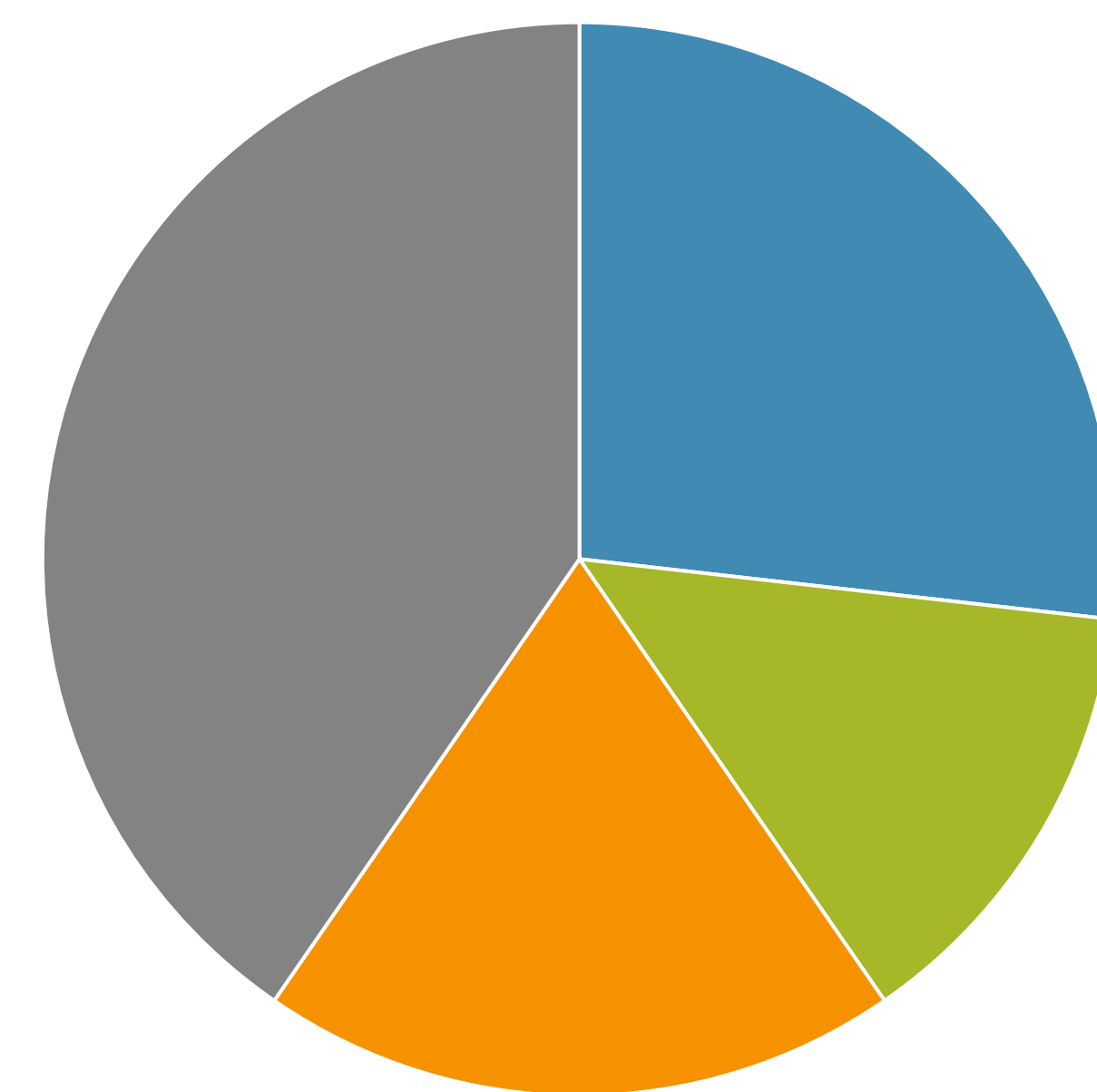
Surveys Completed

265

Response Rate

3.4%

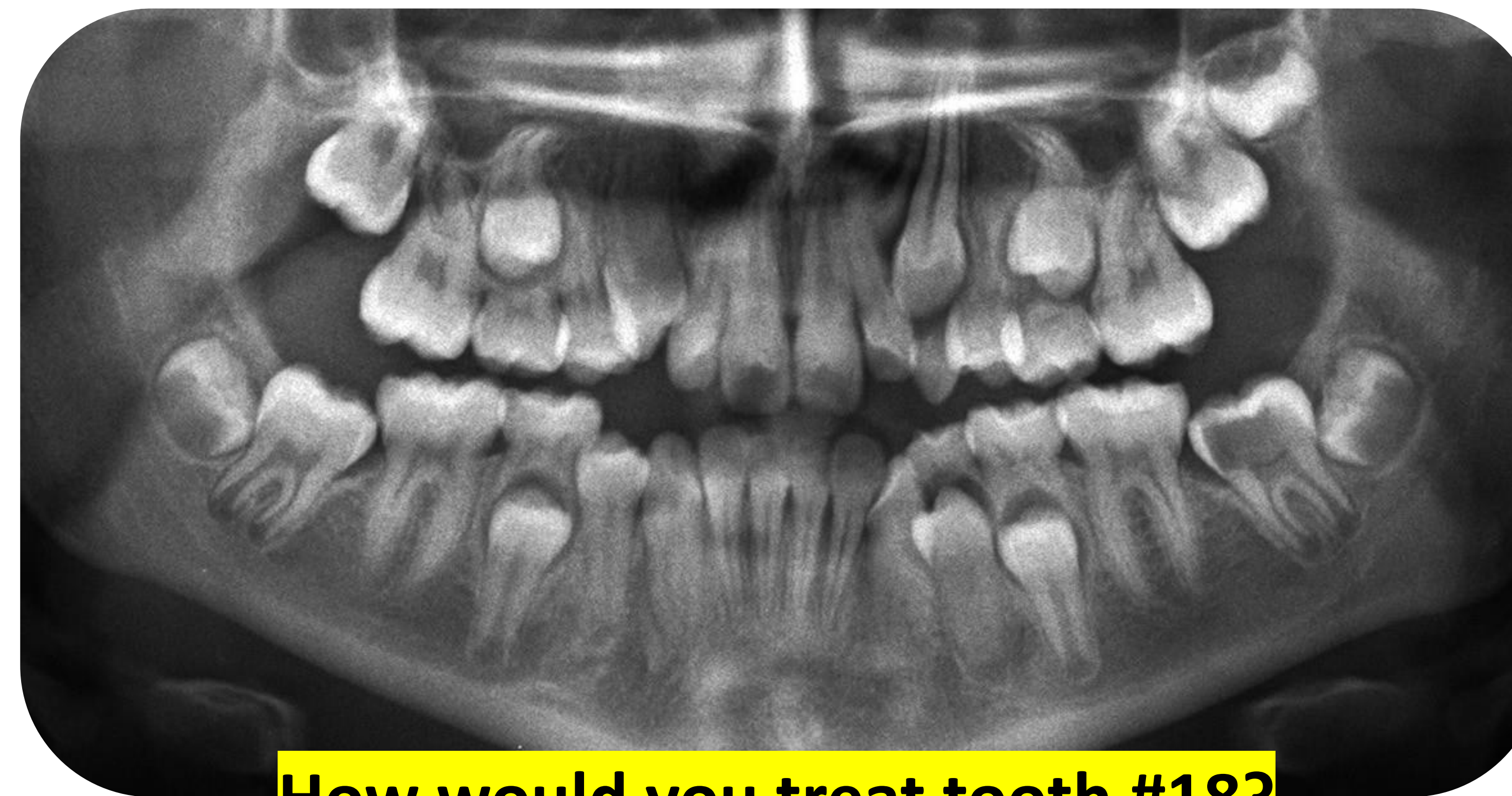
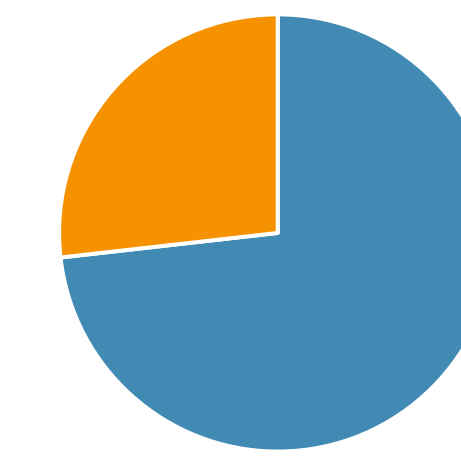
Years in Practice



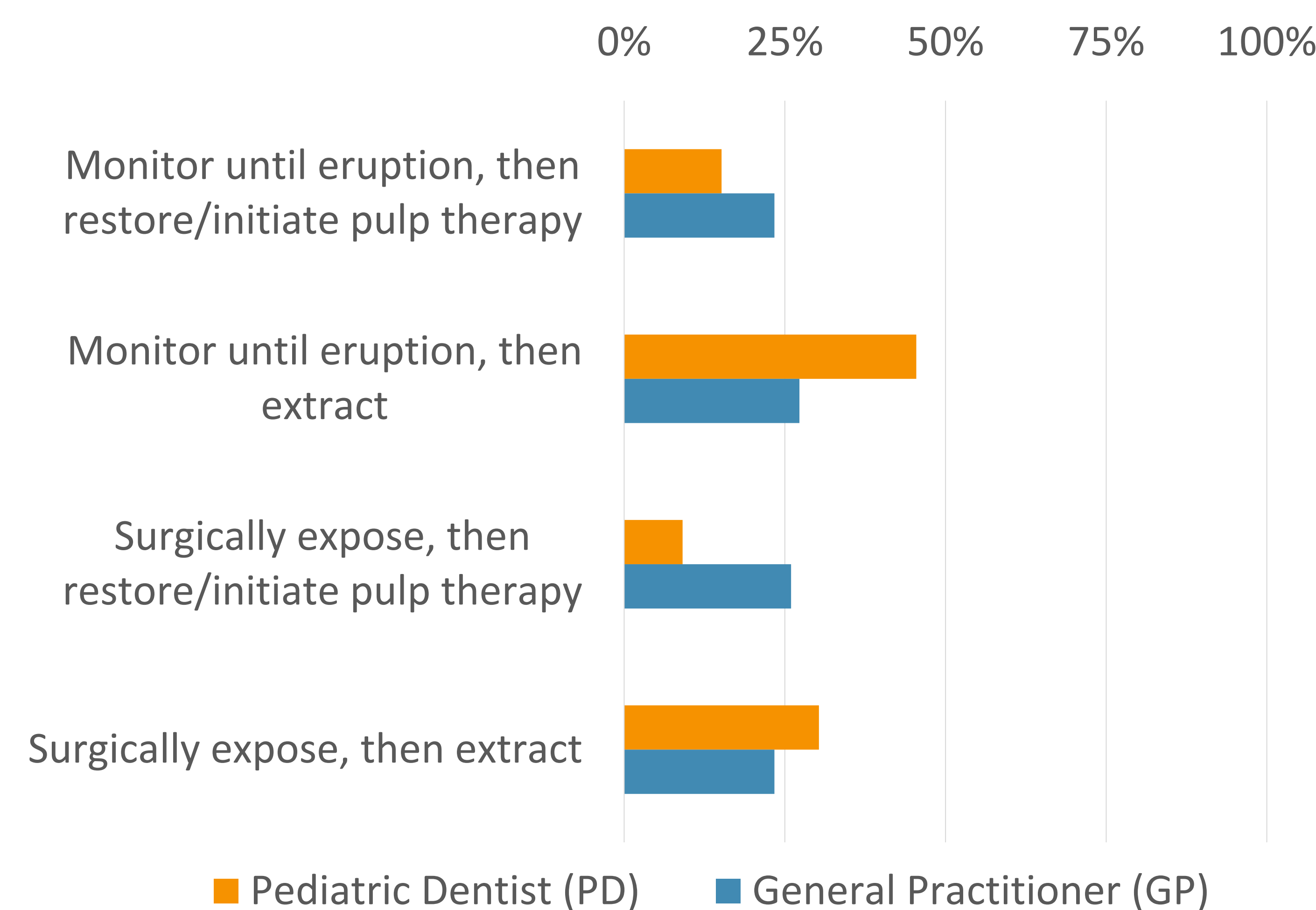
■ 0-5y ■ 6-10y
■ 11-20y ■ 20+y

Scope of Practice

■ General Dentistry
■ Pediatric Dentistry

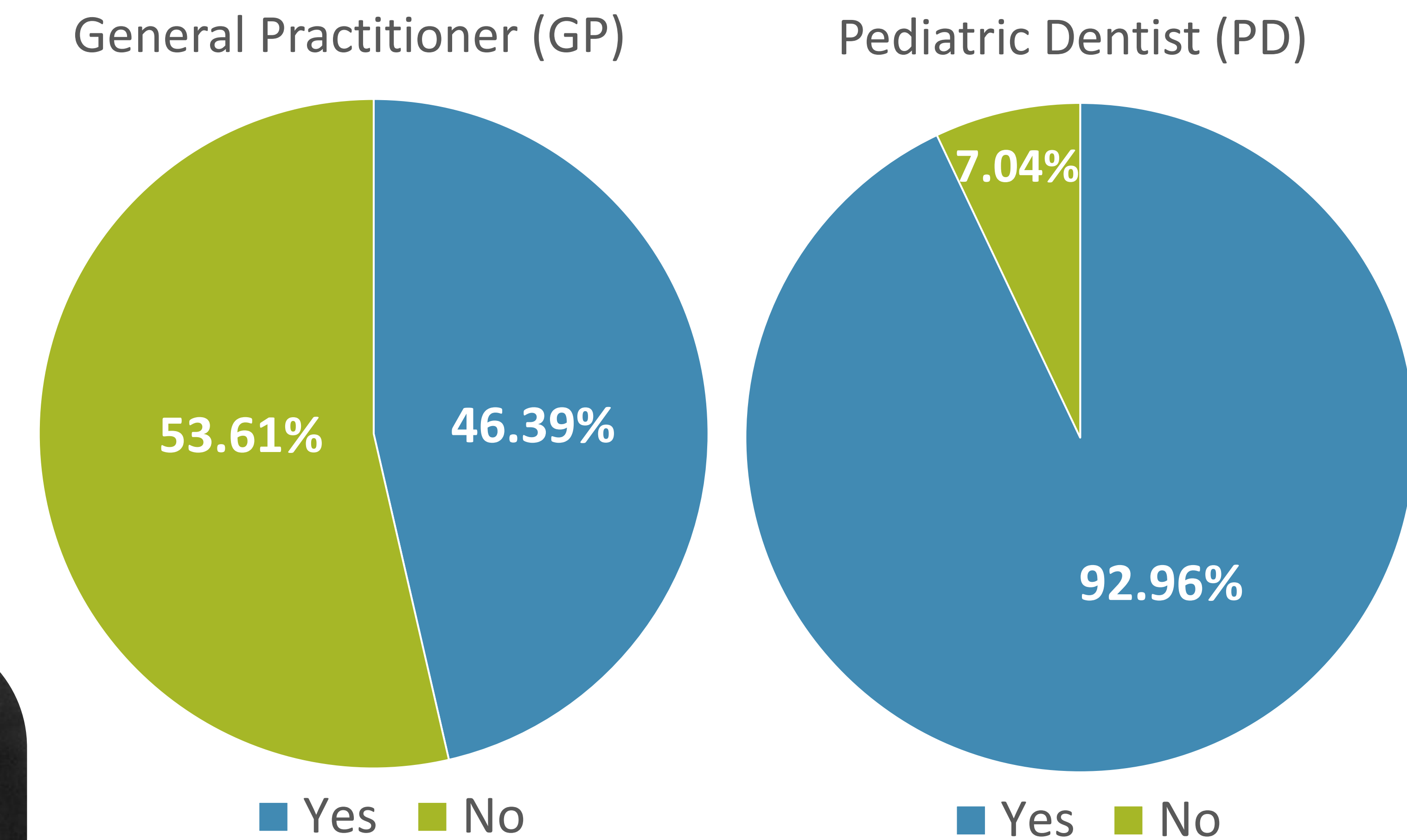


How would you treat tooth #18?



Results

Have you ever encountered a PEIR in your patient population?



Conclusions

- ✓ Both GPs and PDs tended to be more aggressive in their treatment approach if the PEIR-affected tooth was erupted, and they were more conservative if the PEIR-affected tooth was unerupted.
- ✓ PDs were more likely to initiate vital pulp therapy if lesion limits approached the pulp, while GPs were more likely to initiate non-vital pulp therapy vs extraction when pulp necrosis was diagnosed on a permanent tooth.
- ✓ Overall, PDs were more knowledgeable regarding PEIRs than GPs. This suggests that educational efforts on the teaching and diagnosis of PEIRs should be implemented on the general dentistry curriculum since these lesions affect children and adolescents.