INTRODUCTION

International guidelines recommend a first dental visit by the infant's first birthday. Anecdotally, most children in Ireland are not seen at an optimal age, and the most recent national survey revealed that 42% of Irish 5-year-olds have dental caries. The benefits of dental examination at 12 months of age were recently reviewed by Duane and FitzGerald. To ensure that Irish infants receive timely oral healthcare, it is important to identify current barriers and facilitators to access to dental care.

OBJECTIVES

This study is designed to assess the knowledge, attitudes, and behaviour of dentists practicing in the Republic of Ireland regarding the infant oral health visit. It aims to reveal whether dentists are aware of the recommendations regarding the timing and components of the first dental visit. This research aims to compare and contrast the responses obtained from paediatric dentists (PDs) to those obtained from general dentists and non-paediatric dental specialists (non-PDs) and identify any differences in approach between the two subgroups studied.

MATERIALS & METHODS

- A 10-item validated questionnaire was piloted at the TCD School of Dental Science prior to conducting the main study (Figure 1).

RESULTS

Respondent Demographics:
- Equal female (51%) and male (49%) non-PD respondents; All PDs female.
- Graduated from dental school 1960-2017; Highest proportion (39%) in the 1990s.
- Most worked at least 31 clinical hours per week (68-70%) in private practice (67-70%).
- 73% of non-PDs did see infant patients in practice; Majority (39%) saw 1 child/month.
- 73% of non-PDs treated infant patients; 90% of whom performed most components of the first dental visit. This research aims to compare and contrast the responses obtained from paediatric dentists (PDs) to those obtained from general dentists and non-paediatric dental specialists (non-PDs) and identify any differences in approach between the two subgroups studied.

CONCLUSIONS

Key Findings:
- Most non-PDs in Ireland reported seeing infant patients and were aware of the key features of an infant oral health exam, with the exception of assessing for fluoride needs and application of fluoride varnish.
- The main reason a minority of non-PDs in Ireland did not see infant patients is that parents not requesting appointments for such young children.
- Suggests that most dentists in Ireland are aware of current paediatric guidelines.
- Demonstrates a significant improvement compared to previous studies.
- 70% of respondents who agreed that the first dental visit should occur by age 1 graduated from dental school in 2010-2017, compared to <50% of graduates from the 1980s (Figure 4).
- Suggests more recent graduates are better informed about current guidelines.

Recommendations:
- Include undergraduate curricula and continuing dental education should place a greater emphasis on the importance of fluoride needs assessment and fluoride varnish placement in infant patient.
- A national health promotion campaign is indicated to help inform new parents of the importance and benefits of a timely infant oral health visit, involving other healthcare professionals as well as social media.

Limitations:
- Inherent response bias, as respondents formed a self-selecting group.
- Inadequate knowledge about guidelines where results rely on accurate recall, honesty, and lack of double respondents.
- Small population of PDs in Ireland prevented statistical comparison with non-PDs.

DISCUSSION

Implications of Main Findings:
- 73% of non-PDs treated infant patients; 90% of whom performed most components of a successful infant dental visit, with the exception of evaluating for fluoride needs and applying fluoride varnish (Figure 2).
- Possible knowledge gap or concerns regarding fluorosis/fluoride toxicity in infants.
- 68% of non-PDs saw, at most, one infant patient per month.
- Suggests little exposure & low infant attendance at general dentists.
- Of those who did not see infants, 41% of non-PDs reported that this was due to parents not requesting appointments for such young children (Figure 3).
- Suggests a barrier at home; possibly lack of awareness or interest, time or funds.
- 5% of non-PDs believed that infants should have their first dental visit by age 1.
- Suggests that most dentists in Ireland are aware of current paediatric guidelines.
- Demonstrates a significant improvement compared to previous studies.

References