

Confidence in Practitioner Ability to Recognize and Manage Clinical Variations of Ectodermal Dysplasia

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Background

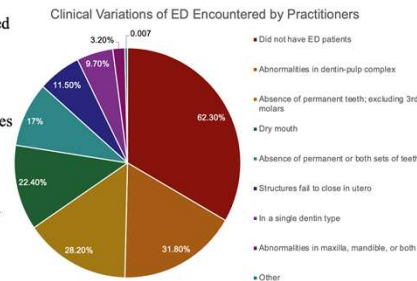
- Ectodermal dysplasia (ED)
 - a rare genetic condition that affects development of the teeth – hypodontia, enamel dysplasia, xerostomia, anodontia, etc.
 - each syndrome characterized by unique set of symptoms
 - International prevalence of approx. 7 per 10,000 births
 - U.S. prevalence of approx. 1 per 5,000 births
- Low prevalence and varying syndromes may contribute to lack of practitioner recognition and treatment of ED



Fig(1): 21-year old male patient with severe hypodontia (Hashem, Atef & O'Connell, Brian & Nunn, June & Oconnell, Anne & Garvey, Therese & O'Sullivan, Michael. (2010).

Results

- 62.3% of practitioners stated that they do not have patients with ED
- 31.8% of practitioners encountered abnormalities in the dentin-pulp complex
- 28.2% of practitioners encountered absence of permanent teeth; excluding third molars



Conclusions

- Results from study show there is moderate confidence level in ability to recognize and manage patients with ED
- Several practitioners showed interest in participating in further ED studies
- Increased practitioner knowledge of clinical variations of ED
 - better quality of care for patients with ED
 - less unpleasant experience for patients and practitioners



Methods

- Dental Practice-Based Research Networks (South Texas Oral Health Network & National Dental PBRN)
 - 5-question QuickPoll
 - Data was aggregated and analyzed for frequency
 - Data was collected anonymously (switch these later)
 - N=281 practitioners participated in the survey



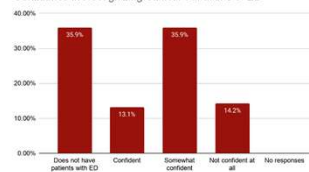
Ectodermal Dysplasia is a hereditary disorder associated with abnormal development of embryonic ectodermally-derived organs including teeth, nails, hair and sweat glands. It is a rare disease affecting about 1 in 5000 to 10,000 people and can cause dry mouth and in the most severe cases edentulism.

Please take a few moments to complete this 5-question quick poll to help us determine if this would be a possible future study in the Network.

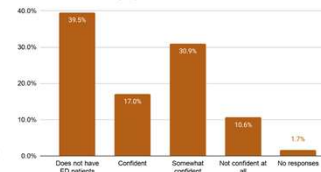
*References can be found on our quick poll.

Results

Confidence in Recognizing Clinical Variations of ED



Confidence in Managing Patients with ED



Citations

Fig (1): Hashem, Atef & O'Connell, Brian & Nunn, June & Oconnell, Anne & Garvey, Therese & O'Sullivan, Michael. (2010). Tooth agenesis in patients referred to an Irish tertiary care clinic for the developmental dental disorders. Journal of the Irish Dental Association. 56. 23-7.

Mungia, R. (2019, December). December 2019 QuickPoll. National Dental PBRN. <https://www.nationaldentalpbrn.org/wp-content/uploads/2020/05/December-2019-Quick-Poll-ED.pdf>.