



PP24: Disturbances in oral and dental structures after childhood cancer therapy

Isidora Christopoulou, Maria Georgaki, Kalliopi Siotou*

Department of Orthodontics, National and Kapodistrian University of Athens

Aim: Survivors of childhood cancer remain at risk of developmental dental abnormalities; such as agenesis, dental hypoplasia, root stunting, and enamel defects often related to the oncologic treatments. At this study we present a case of a child with multiple dental abnormalities following treatment of craniofacial cancer.

Materials and Methods: A 13-year-old girl sought orthodontic treatment at the Department of Orthodontics in the University of Athens. Her past medical history included rhabdomyosarcoma of visceral skull diagnosed at the age of 5, for which she underwent surgery, chemotherapy, and proton therapy.

Results: Based on the panoramic radiograph and the clinical examination (Figures), her maxillary teeth were short or without roots resulting in tooth mobility. Her second permanent mandibular molars had shortened roots – as expected considering the age in which the cancer was treated in relation to the stage of tooth formation and mineralization. She had undergone no orthodontic treatment, because of the risk of further root resorption and tooth loss.

Conclusions: In this case report we presented a patient with multiple dental abnormalities after cancer therapy in early childhood. More high-quality studies are needed to establish a dental protocol to treat these young patients properly.



References

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