

## 5<sup>th</sup> INTERNATIONAL CONFERENCE ON DENTISTRY AND ORAL HEALTH

April 28-29, 2025 | VIENNA, AUSTRIA



### Anna Jodłowska

Department of Pediatric Dentistry, Medical University  
of Silesia, Katowice, Poland

### Tooth abnormalities and their age dependent occurrence in leukemia survivors

**Abstract:** The multidrug nature of anticancer treatment and different treatment protocols used in the studies are likely to be a major limitation in establishment of real risk factors determining the occurrence of dental abnormalities. The authors aimed to establish a relationship between the duration and the dose of chemotherapy, and the number of tooth adverse effects in 7 leukemia survivors receiving the treatment according to ALL IC-BFM 2002 protocol. As a result of clinical and radiological examination the dental abnormalities were identified and the medical records of all survivors were reviewed in terms of drugs administered, their doses and treatment schedules. No correlation was observed between treatment duration of an intensive therapy, the entire therapy and the number of tooth abnormalities. No relationship was also found between the number of dental abnormalities and the cumulative dose of vincristine, L-asparaginase, methotrexate, cyclophosphamide, cytarabine and 6-mercaptopurine. The age at the onset of the antineoplastic therapy is likely to be the strongest risk factor for the toxic injury during tooth development.

**Biography:** Anna Jodłowska is a scientific and didactic employee of Department of Pediatric Dentistry in Medical University of Silesia, Poland. She is a specialist of pediatric dentistry. A PhD was obtained in 2007 after long-term research on apexification. For many years she has been dealing with impact of chemotherapy on dental development. Various aspects of analyzed problem have been documented in numerous publications and have been also presented by the author at several foreign medical and dental congresses. Main areas of her interest are endodontic treatment, tooth abnormalities, dental traumatology, and dental treatment under general anesthesia. She is a member of Polish Dental Association.