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### **Minimal invasive dentistry: How much caries tissue should we remove?**

Caries tissue removal has been done by rotary instruments with different speeds for a long time. It has been revealed that, rotary instruments, cavity preparations based on extension for prevention and black principles can result with loss of healthy dental tissue and tooth in the long term. This led the researches focus on new caries removal techniques that prevent healthy dental tissues. Today this concept is named as minimal invasive approach. Minimal invasive approach aims to remove the soft and infected dentine and leave the affected dentine which has a re-mineralization potential. This can be achieved by treatment modalities such as Atraumatic Restorative Treatment (ART) which uses only hand instruments and chemo-mechanical caries removal in clinical settings. In today's pediatric dentistry, individual treatment manners are constructed on biological process of caries lesion treatment, tissue re-mineralization and plaque control. This perspective helps to avoid pulp perforations and complicated treatment series in primary and young permanent teeth and helps to improve patient-dentist cooperation particularly among children with dental anxiety. In this presentation, in addition to minimal invasive caries removal techniques, stepwise excavation, interim therapeutic restorations, hall and non-restorative caries removal techniques will be discussed.

### **Biography**

Aslı Topaloğlu Ak completed her Graduation from University of Ege, School of Dentistry in 1998, PhD program in 2005 in Department of Pediatric Dentistry at Ege University. In addition, in 2009, she defended her second doctoral thesis entitled "Management of dental caries in primary teeth through minimal intervention approaches" and gained PhD degree from Radboud University in the Netherlands. She worked as an Associate Professor at University of Ege, School of Dentistry, from 2012-2017. Since May 2017, she is working as the Head of Paedodontics Department of Istanbul Aydın University.

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