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**Associated dental anomalies and the genetic aetiology: A twins study case****Isabelle Machado de Holanda**  
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The influence of genetic factors in the etiology of associated dental anomalies is the hypothesis of several study cases in families. Studies of genes and interacting molecular pathways have shown the genetically and phenotypically heterogeneity of the condition. Tooth agenesis constitutes the most common developmental anomaly of the human dentition and is frequently associated with other dental anomalies, including ectopia, microdontia and enamel hypoplasia. The prevalence of agenesis is higher in families of affected patients. These evidences highlight the importance of early diagnosis and timely intervention. Also the recognition of the pattern of associated dental anomalies in the same family members. This article aims to present a monozygotic twin sisters study case of agenesis, microdontia, ectopia and delayed dental development demonstrating the high genetic contribution in the etiology of associated dental anomalies. A high correlation for a particular irregularity in pairs of monozygotic twins is evidence that genetics is an important etiology of such abnormality. Unlikely, dizygotic twins which have different genotypes would show a lower correlation for the same irregularity.

**Biography**

Isabelle Machado de Holanda has completed her Master of Science studies from Universidade de São Paulo and Orthodontics Advanced Specialty training from Brazilian Dentistry Association. She was invited by Dr. Stanley Malamed to take the IV Sedation Course as an international guest at the University of Southern California, (USC). Also, she has completed, with awards, the Oral and Maxillofacial Surgery Externship Program at Indiana University (IUPUI) in 2010. Nowadays, she is a Dental Consultant in the Department of Dental Care at a Health Insurance Company in Brazil working principally with diagnosis and multidisciplinary treatment plan. She has been presenting in both national and international meetings.

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