

# 25<sup>th</sup> Global Dentists and Pediatric Dentistry Annual Meeting

April 25-26, 2019 | Rome, Italy



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### **Orofacial dysfunction: Effects on speech interdisciplinary aspects for disorders in the orofacial system (including open bite, speech, habits) in childhood and interaction between orofacial disorders and musculoskeletal systems**

Orofacial dysfunctions affect speech, breathing, swallowing, posture and the tooth holding apparatus. The orofacial system is anatomically and neurophysiologically intense and highly complex networked in permanent interaction with other body systems and often gives an idea of the complexity. As a sensomotor unit it is in constant interaction with a variety of other parts of the body. An unphysiological posture can severely disturb the performance of the mouth area. Symptoms of a general posture weakness in the orthopaedic sense, which the orthodontist can recognize by the child's open mouth, strain his teeth development and promote infections due to lack of nasal breathing. Respiratory problems caused by hyperplastic tonsils or adenoid can lead to sleep disturbances and also speech or voice disturbances. Such dysfunctions are not only the result, but also be the cause of tooth malpositions. Grabowski emphasizes the interactions between the orofacial area and the entire body tooth malpositions and are often the visible image of multi-layered dysfunctions. Many diseases originate from the mouth. There are many interconnections and are susceptible to disturb the balance between tooth position, jaw development, total body tension, mouth closure and tongue function and speech. Multicausal interactions show up the close connection between breathing, swallowing, speech (dis-) functions, whole body posture, trunk musculature, fascia and tongue function should be emphasized and spotlights to a major challenge for all doctors, dentists and therapists involved in the care. The everyday work shows that monocausal and locally starting therapy leads to unsatisfactory results. In order to achieve stable results in this field, interdisciplinary systemic access in diagnostics and therapy is a prerequisite. Speech and voice disorders with the participation of the orofacial system and corresponding malfunction occur in any stage of one's life.



Figure 1: The Challenge – Practising Interdisciplinary Diagnosis and Therapy in the Team

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## Recent Publications

1. Codoni S, et al., (2019) Funktionsorientierte Logopädie Springer Verlag Heidelberg.
2. Codoni S, Indri I, von Jackowski JA and Spirgi I (2016) Spezielle Manuelle Verfahren in der Behandlung von kranio-mandibulären Dysfunktionen – Praktizierte Interdisziplinarität, MKG Chirurg, Springer Verlag Heidelberg .167-175.
3. Codoni S "Auf den Zahn gefühlt – "Das orofaziale System im Netzwerk der muskuloskelettalen Einheit", 283-228. in Böhme, H. / Kordaß, B. / Slominski, B. (Hrsg.) Das Dentale - Faszination des oralen Systems in Wissenschaft und Kultur - Quintessenz , 1. Auflage 2015.
4. Codoni S (2015) Die Zunge im fachübergreifenden Arbeitsfeld, ZMK Zahnmedizin, Kultur, Wissenschaft 3:134-142.
5. Codoni S (2014) Vielfältige Wechselwirkungen zwischen orofazialen System und dem ganzen Körper-Les divers interactions entre le système oro-facial et la totalité du corps. Physio active 3:33-40.
6. Grabowski R, Kuhnt G and Stahl F (2007) Interrelation Between Occlusal findings and Orofacial myofunctional status in primary and mixed Dentition: Part III: Interrelation between malocclusions and Orofacial dysfunctions. Journal of Orofacial Orthopedics /Fortschritte der Kieferorthopädie 68(6):462-476.

## Biography

Susanne Codoni has her expertise in evaluation and passion in improving the health and wellbeing. Her open and contextual evaluation of working is based on integral method and creates new pathways for improving healthcare. She studied logopedics, hard of hearing and deaf pedagogy in medical education at the University of Zurich. She is the Head of Cantonal Logopedic Service of Basel City. Since, 2002 various education and training courses including craniosacral therapy, NLP trainer, myofunctional therapy, myofacial release and MCFKSc. She is a Research Assistant at the clinic for cranio maxillo facial surgery with focus on interdisciplinary orientation with cleft lip and palate at University Hospital Basel. Since, 2002 she has a private practice, in 2011 she elected as Doctor Honoris Causa by the Medical Faculty at the University of Basel. Since 2011 she is a member of the study board of the MAS in Cranio Facial Kinetic Science, Senior Consultant at the Department of Oral, Pine Facial Surgery.

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