



Understanding Masticatory Function in Unilateral Crossbites

By Maria Grazia Piancino, Stephanos Kyrkanides

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Unilateral posterior crossbite is a problem often seen in orthodontic practice, and properly understanding chewing patterns will lead to the most effective treatment program. Drawing on their research and available literature, Drs. Piancino and Kyrkanides present a fascinating look at chewing cycles and their role in the functional treatment of unilateral posterior crossbite.

- Describes the physiology and pathology of chewing patterns and muscular activation in humans
- Explains chewing patterns and muscular coordination, and their influence on the growth and harmony of the stomatognathic system
- Clinical instruction for checking and correcting masticatory function and functional asymmetry in order to prevent the relapse of the malocclusion
- Clinical cases walk readers through the treatment of seven crossbites

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Editorial Review

From the Back Cover

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Understanding Masticatory Function in Unilateral Crossbites starts by broadly defining mastication and the evolution of electrognathography. The book then explains the physiology of mastication—the chewing pattern and neuromuscular control. From there, the discussion turns to the pathology of the chewing pattern, looking first at various conditions of crossbite before narrowing down specifically to the case of unilateral posterior crossbite. The correction of unilateral posterior crossbite is next addressed, looking at function generating bite, biomechanics, actions and effects, early therapy, and compliance. The final chapter presents seven clinical cases, each describing treatment of a different crossbite.

Key Features

- Describes the physiology and pathology of chewing patterns and muscular activation in humans
- Explains chewing patterns and muscular coordination, and their influence on the growth and harmony of the stomatognathic system
- Clinical instruction for checking and correcting masticatory function and functional asymmetry in order to prevent the relapse of the malocclusion
- Clinical cases walk readers through the treatment of seven crossbites

About the Author

Maria Grazia Piancino, MD, DDS, PhD, is Aggregate Professor and Researcher in orthodontics at the University of Turin, Turin, Italy. She has more than 25 years' experience in clinical orthodontics and related research. Dr. Piancino has written for numerous international peer-reviewed publications in the field and lectures on mastication, chewing cycles, and orthodontics at scientific conferences and professional meetings internationally. She is widely regarded as an expert in chewing patterns.

Stephanos Kyrkanides, DDS, MS, PhD, is Associate Dean for Research and Faculty Development, and Professor and Chair, Department of Orthodontics and Pediatric Dentistry, Stony Brook University School of Dental Medicine, Stony Brook, New York.

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