

GIUSEPPE SCUZZO, KYOTO TAKEMOTO, LUCA LOMBARDO

# ORTHODONTIC **SET UP**

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Quintessenza Edizioni

Milan, Berlin, Chicago, Tokyo, Barcelona,  
Istanbul, London, Moscow, New Delhi, Paris,  
Prague, São Paulo, and Warsaw



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Quintessenza Edizioni S.r.l.  
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ISBN 88-7492-188-8  
978-88-7492-188-1

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Printed in Italy

## Summary

|          |     |
|----------|-----|
| Preface  | V   |
| Foreword | VII |

|                                      |   |
|--------------------------------------|---|
| Chapter <b>1</b>                     | 1 |
| The History of the Orthodontic Setup |   |

|                                     |   |
|-------------------------------------|---|
| Chapter <b>2</b>                    | 7 |
| Current Trends in Orthodontic Setup |   |

|                                         |    |
|-----------------------------------------|----|
| Chapter <b>3</b>                        | 19 |
| Orthodontic Setup Construction Criteria |    |

|                        |    |
|------------------------|----|
| Chapter <b>4</b>       | 39 |
| Manual Setup Procedure |    |

|                         |    |
|-------------------------|----|
| Chapter <b>5</b>        | 57 |
| Digital Setup Procedure |    |

|                                       |    |
|---------------------------------------|----|
| Chapter <b>6</b>                      | 67 |
| Orthodontic Applications of the Setup |    |

## Preface

Once again it is my great pleasure to present a book on the lingual technique written by Giuseppe Scuzzo and Kyoto Takemoto, this time joined by Luca Lombardo. This new tome builds on previous work by the authors, who for roughly 30 years have been guiding the evolution of this technique, giving clinicians the option of using lingual orthodontics as a valid alternative to traditional labial appliances.

Today, in fact, this process of development of the lingual technique can only be enhanced by the publication of a new book detailing the many advances and innovations in manual and digital setups, an undoubted boon for clinicians and a virtual necessity for lingual orthodontists.

The integration of a young brilliant researcher like Luca Lombardo, current Chair of the Italian Society of Lingual Orthodontics, into the Scuzzo/Takemoto team has certainly brought a welcome influx of fresh ideas and vitality, aiding them in their arduous but noble task of spreading the word about lingual orthodontics throughout the dental community.

In my opinion, this book makes a solid contribution to the orthodontic panorama, invaluable for both professionals and students alike, and for this reason we at the University of Ferrara have added it to our required reading list. I trust that the other schools of dentistry across the world will do the same, and that this insightful volume gains the recognition it well deserves.

Prof Giuseppe Siciliani  
Director of the Postgraduate School of Orthodontics  
University of Ferrara

## Foreword

The setup is an important tool in the evaluation and development of a treatment plan, because it provides a three-dimensional representation of the occlusion at the end of treatment. Using the setup, the orthodontist can visualize through simulations the various configurations of the teeth, which will help him or her to make decisions, namely, determining the amount of space and anchorage required and the mechanics to be used, and will therefore help him or her to recognize the possibilities and the limits of the treatment.

A setup can and should be used in all cases in which dental discrepancies, agenesis, dental extractions, and asymmetries raise doubts about final results. It is also a useful tool in the communication and discussion of the patient's treatment plan.

The importance of diagnostic assessment of the setup was discovered by Kesling and Moyers; however, thus far, despite the high diagnostic value of this tool, especially in difficult cases, setup seems to be an overused word in orthodontics. Because its execution is unknown to many professionals, it continues to be a neglected and underestimated procedure in its realization. Although in recent years digital and photographic configurations have been proposed as interesting possibilities and alternative solutions, the method for creating the setup still remained uncertain, in addition to the protocol and methods used for its realization.

The experience accumulated and shared over the past years among the coauthors of this book in creating digital and manual setups inspired the writing of this manual. Our aim was to clarify a method and protocol to execute a setup according to specific principles for the positioning of the teeth, rather than being based on the experience of the operator.

Accurate analysis of the arch form is of fundamental importance, as well as the assessment and the customized positioning of the teeth, the objective of which is quantification of these movements; these represent the greatest difficulties encountered by the orthodontist or technician in both manual and digital setups.

We hope that the knowledge collected in this manual will be useful and will provide the information needed to gain the know-how of an objective, accurate, and repeatable method in the creation of a setup.

Special thanks to Prof Giuseppe Siciliani for the help and scientific support provided by the Orthodontic Postgraduate School directed by him at the University of Ferrara, Italy.



**Luca Lombardo.** After earning a degree in dentistry, Dr Luca Lombardo has dedicated himself exclusively to orthodontics practice and research. His most significant research areas are biomechanics, diagnosis by digital volumetric tomography, and lingual appliances. He is the author of numerous publications in national and international orthodontic journals. He has participated in many national and international congresses as a speaker.



**Giuseppe Scuzzo.** Dr Giuseppe Scuzzo graduated from Rome University with a degree in medicine in 1983 and specialized first in dentistry in 1987 (also at Rome University) and then in orthodontics at the University of Ferrara. He has worked exclusively in orthodontics, with a special interest in lingual orthodontics, since 1983. As the author of numerous publications regarding this technique, Dr Scuzzo has spoken and published extensively in Italy and abroad on lingual orthodontics. He has authored over 40 publications on this subject. He collaborates as a teacher with the major European universities and is a professor in the lingual technique at the University of Ferrara and an adjunct professor at Complutense University of Madrid. He is also director of the first international Master in Lingual Orthodontics program at the University of Ferrara and is the Director of the Postgraduate Program in Lingual Orthodontics at Complutense University of Madrid. Together with Dr Takemoto, he gives many lectures and courses all over the world. Dr Scuzzo has a private practice limited to lingual orthodontics in Rome, Italy.



**Kyoto Takemoto.** Kyoto Takemoto practices lingual orthodontics exclusively in Tokyo. He has taught courses in lingual orthodontics around the world and periodically conducts hands-on in-office courses in English. He is one of the world leaders in lingual orthodontics. He has conducted courses in lingual orthodontic for more than 4,000 people all over the world. Dr Takemoto collaborates as a teacher with the major European universities and is a professor in the lingual technique at the University of Ferrara and an adjunct professor at New York University. Dr Takemoto has authored more than 30 articles in lingual orthodontics and is the co-author of *Invisible Orthodontics* with Giuseppe Scuzzo. This book has been translated into five languages. Along with Dr Scuzzo, he developed and designed the new STb lingual bracket (Ormco). He was president of the first world congress on lingual orthodontics, organized by the World Society of Lingual Orthodontics, of which he is a past president and founding member.

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