



## Foederatio Europea Orthodontica - European Federation of Orthodontics

Monday, April 6th, 2015

### President

Angel Alonso Tosso

[angel@alonstosso.com](mailto:angel@alonstosso.com)

### Vice-President

Silvia Allegrini

[silvia\\_allegrini@hotmail.com](mailto:silvia_allegrini@hotmail.com)

### Secretary-General

Owen Crotty

[crottyowen\\_1@corkorthodontics.ie](mailto:crottyowen_1@corkorthodontics.ie)

### Treasurer

Odile Hutereau

[odilehut@pt.lu](mailto:odilehut@pt.lu)

### Administrator

Danny Op Heij

[Danny.opheij@sobor-bevor.be](mailto:Danny.opheij@sobor-bevor.be)

### Secretary-General Adjunct

Ursula Hirschfelder

[ursula.hirschfelder@uk-erlangen.de](mailto:ursula.hirschfelder@uk-erlangen.de)

[ursula.hirschfelder@kfo.imed.uni-erlangen.de](mailto:ursula.hirschfelder@kfo.imed.uni-erlangen.de)

### Immediate Past President

Panagiotis Skoularikis

[pskoularikis@yahoo.com](mailto:pskoularikis@yahoo.com)

### Official webmaster

Paolo Manzo

[Paolo.manzo@gmail.com](mailto:Paolo.manzo@gmail.com)

### FEO website:

[www.feo-online.com](http://www.feo-online.com)

Dear Dr. Rosa

May we congratulate you and your co-authors on winning the prestigious FEO Best Clinical Paper Award 2015 for your paper

### Early treatment of Class III Malocclusion by RME and face-mask therapy with deciduous dentition anchorage.

Marco Rosa, Erica Frumusa, Patrizia Lucchi, Alberto Caprioglio. 2013 SIDO.

As part of the Award, we are delighted to present you with €1.000, and a further €500 towards expenses.

We cordially invite you to present the winning paper and to receive your award and cheque at the FEO session which be held in London during the WFO Congress, as part of the World Village Day.

Please prepare a 10 minutes presentation of your paper which will be given, in English, during the scientific sessions, on September 29th, 2015. Seven other speakers from different members countries of FEO will participate in this scientific session.

Following this, formal presentation of the FEO Awards 2015 will take place.

Please, confirm that you will be attending to present your paper, or if you need any further information, by emailing us at [crottyowen-@corkorthodontics.ie](mailto:crottyowen-@corkorthodontics.ie).

We look forward to meeting you in London.

Kind regards,

Angel Alonso Tosso  
President

Owen Crotty  
Secretary-General

**Orthodontic Society of Albania**  
[celialmiri@hotmail.com](mailto:celialmiri@hotmail.com)

**Société Belge d'Orthodontie**  
[Decoste.rthierry@skynet.be](mailto:Decoste.rthierry@skynet.be)

**British Orthodontic Society**  
[www.bos.org](http://www.bos.org)

**Bulgarian Orthodontic Society**  
[Laura\\_andreeva@yahoo.com](mailto:Laura_andreeva@yahoo.com)

**Croatian Orthodontic Society**  
[slaj@sfzq.hr](mailto:slaj@sfzq.hr)

**Cyprus Orthodontic Society**  
[www.cos.com.cy](http://www.cos.com.cy)

**Société Française d'Orthopédie Dento-faciale**  
[www.sfof.org](http://www.sfof.org)

**Germany DGKFO**  
[kahl-nieke@uke.uni-hamburg.de](mailto:kahl-nieke@uke.uni-hamburg.de)

**Greek Orthodontic Society**  
[www.gortho.gr](http://www.gortho.gr)

**Irish Orthodontic Society**  
[info@wexfordorthodontics.ie](mailto:info@wexfordorthodontics.ie)

**Società Italiana di Ortodonzia**  
[www.sido.it](http://www.sido.it)  
[segreteria@sido.it](mailto:segreteria@sido.it)

**Société Luxembourgeoise D'Orthodontie**  
[www.orthodontielux.lu](http://www.orthodontielux.lu)  
[odilehut@pt.lu](mailto:odilehut@pt.lu)

**FYR Macedonian Orthodontic Society**  
[spopovski@yahoo.com](mailto:spopovski@yahoo.com)

**Sociedade Portuguesa de Ortopedia Dento-Facial**  
[www.spodf.pt](http://www.spodf.pt)  
[spodf@netc.pt](http://spodf@netc.pt)

**Serbian Orthodontic Society**  
[www.ortodontisrbije.com](http://www.ortodontisrbije.com)

**Slovenian Orthodontic Society**  
[martina.drevensek@gmail.com](mailto:martina.drevensek@gmail.com)

**Sociedad Española de Ortodonzia**  
[www.sedo.es](http://www.sedo.es)  
[sedo@sedo.es](mailto:sedo@sedo.es)

**Turkish Orthodontic Society**  
[www.tod.org.tr](http://www.tod.org.tr)

### Corresponding Members:

**Egyptian Orthodontic Society**  
[azaher@idsc.net.eg](mailto:azaher@idsc.net.eg)

**Israeli Orthodontic Society**  
[www.orthoisrael.org.il](http://www.orthoisrael.org.il)

**Lebanese Orthodontic Society**  
[jbs.orthodontics@gmail.com](mailto:jbs.orthodontics@gmail.com)

# Early treatment of Class III malocclusion by RME and face-mask therapy with deciduous dentition anchorage



Marco Rosa, MD

University of Insubria, Varese, Italy  
Private Practice of Orthodontics,  
Trento, Italy



Erica Frumusa, DDS

Private Practice of Orthodontics,  
Milan, Italy



Patrizia Lucchi, DDS

University of Cagliari and  
University of Pisa,  
Private Practice of Orthodontics,  
Trento, Italy



Alberto Caprioglio\*, DDS

Associate Professor and Chairman,  
Department of Orthodontics,  
University of Insubria, Varese, Italy

\*Correspondence:

Via G. Piatti, 10 • 21100 Velate (Va) • Italy  
e-mail: alberto.caprioglio@uninsubria.it

“The use of RME and FM in the early mixed dentition”

## Abstract

**OBJECTIVES.** It is widely recognized that the first phase of mixed dentition is the best timing for maxillary orthopedic treatment in Class III malocclusions. The aim of this preliminary study was to evaluate the skeletal effects in two groups of growing patients with Class III malocclusion treated using a Rapid Maxillary Expander (RME) and Facial Mask (FM) anchored on permanent teeth (Group “6”) and on the deciduous teeth (Group “E”) in early mixed dentition.

**MATERIALS AND METHODS.** In order to assess cephalometric changes, 44 cephalometric headfilms of 22 growing patients were traced and subjects were analyzed pretreatment (T0) and after treatment (T1), following bony stabilization. The mean duration of treatment was 1y 1m. Two statistical analyses were carried out: a paired t-test was performed to evaluate changes during T0 to T1 in each group and an unpaired t-test was used to study intergroup comparison.

**RESULTS.** In both groups, Class III correction was a result of a forward movement of the maxilla with no downward and backward rotation of the mandible. However, improvement of the skeletal profile is greater in Group “E”, in which devices were anchored on deciduous teeth.

**CONCLUSIONS.** The use of RME and FM in the early mixed dentition is effective in maxillary advancement using both permanent and primary teeth as anchorage. Furthermore, the use of deciduous teeth could reduce the risk of damaging permanent teeth and limit the dentoalveolar compensation on first permanent molars. Further studies with larger samples are needed to confirm these findings and evaluate the long-term stability of the skeletal changes.

### Keywords

Class III, Deciduous dentition, Face mask

# 8TH INTERNATIONAL ORTHODONTIC CONGRESS

27<sup>th</sup>-30<sup>th</sup> September 2015  
ExCeL, London



COME TO  
SEE THE

Lon

