

Class I occlusion treated with F22 Aligners



Introduction

When appropriate, clear aligners can be used to treat patients looking to improve their smile quickly and without fixed appliances. For patients, clear aligners enable them to wear mobile invisible appliances that are much more comfortable than fixed ones. Generally, treatment consists of a series of clear aligners that are changed by the patient every two weeks.

Case Information

A 26-year-old female looking to improve her smile. She is a TV celebrity and has requested, if possible, invisible appliances that would provide a fast treatment. The patient's goal is to obtain the best smile possible without fixed appliances due to her public profile.

In October 2016, we examined her case via a RX Analysis, along with photos and intraoral scans (3Shape TRIOS). These were sent to F22 Aligners at Ferrara University, Italy for the ortho-team to study the case.

The patient presented class 1 occlusion on the right and left sides. 1.1-2.1 palatally-tipped and 1.2-2.2 labially tipped. In the mandibular side, 3.1 was a little bit rotated Fig. 1-6.

The patient displayed no other significant problems, except for an inferior third molar in the wrong position. This was not uncomfortable for the patient, so it was decided not to treat it.



Fig. 1



Fig. 4



Fig. 2



Fig. 5



Fig. 3



Fig. 6



Fig. 7

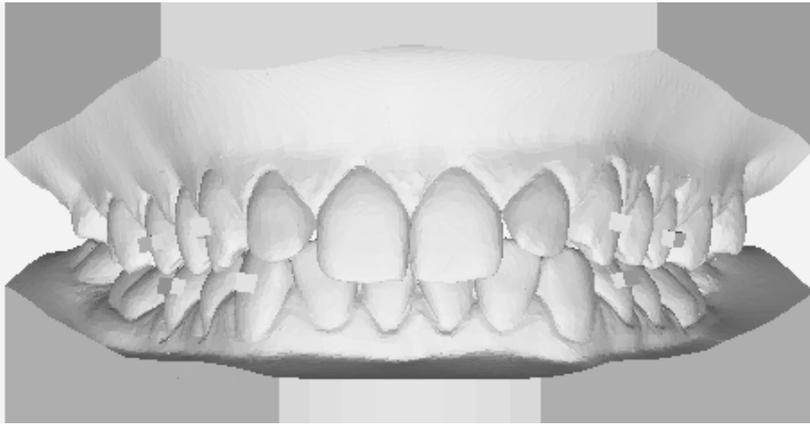


Fig. 8

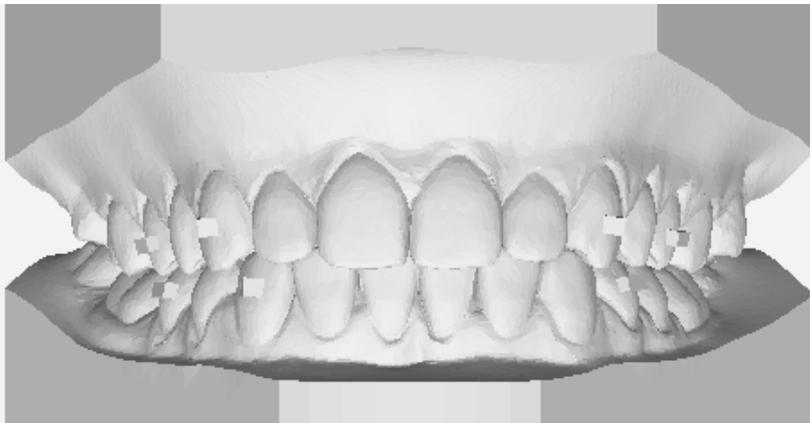


Fig. 9

Treatment Description

The case was studied using 3Shape OrthoAnalyzer. This enabled us to create an ortho-waxup and a treatment plan for the final result. We were able to pre-view the treatment-flow by means of a short video.

In November 2016, I presented the patient with a treatment plan consisting of no. 12 clear aligners to be changed every two weeks. She was able to view the treatment on a video including debonding.

We would be able to improve teeth movement by using a composite attachment on some teeth.

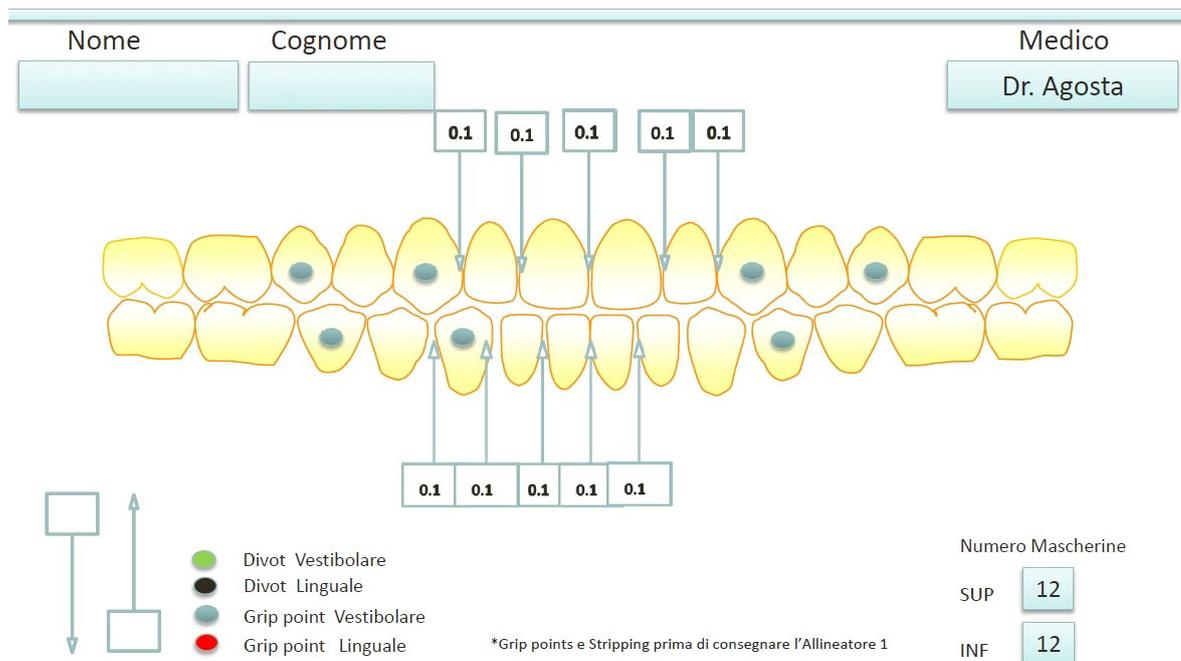


Fig. 10

Treatment started in December 2016. This consisted of stripping, making attachments and giving the patient the first couple of clear aligners. It was also explained to her how to use the aligners and that they needed to be worn at least 22 hrs. per day.



Fig. 11



Fig. 12

Our control sessions were every two weeks. Contact points and teeth movements were controlled as well as patient's oral hygiene.



Fig. 13

Conclusion

Despite the many types of orthodontic treatments available, F22 clear aligners in this case, provided the optimal solution for meeting patient expectations.

Because of digital scanning and CAD/CAM planning, this type of treatment delivers very predictable results. Digital insight also enables clinicians to evaluate cases better and if needed, propose alternative types treatment.

An important advantage of going digital for my practice has been that it enables me to deliver more types of treatments to my patients.

A special thanks to Antonella Carlucci and F22 ortho-team from Tutors Ferrara University for their kind support in this case.

About Dr. Salvatore Agosta

Salvatore Agosta received his dentistry degree in July 2005 from Catania University. As a student, Salvatore began attending dentistry courses throughout Italy and Europe to improve his skills and quest for knowledge.

Agosta opened his practice as a general dentist in Modica, Sicily in 2009. He is keenly interested in all aspects of dentistry. Salvatore has used the 3Shape TRIOS® intraoral scanner since 2016. In his words, "I am very glad for it."

About 3Shape

3Shape is changing dentistry together with dental professionals across the world by developing innovations that provide superior dental care for patients. Our portfolio of 3D scanners and CAD/CAM software solutions for the dental industry includes the multiple award-winning 3Shape TRIOS intraoral scanner, the 3Shape X1® CBCT scanner, as well as market-leading scanning and design software solutions for both dental practices and labs.

Two graduate students founded 3Shape in Denmark's capital in the year 2000. Today, 3Shape employees serve customers in over 100 countries from 3Shape offices around the world. 3Shape's products and innovations continue to challenge traditional methods, enabling dental professionals to treat more patients more effectively.

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