



CASE REPORT

TRIO™
CLEAR

Align and Restore - CAS CLINIQUE

Dentist: **Dr. Jeanne**

 **MODERN**
Dental Europe

INTRODUCTION

A 34-year-old healthy gentleman, who also happens to be a dental assistant was eager to get a smile makeover but was unsure where to start. With a few old dental crowns and composite restorations, what his smile missed, was an aesthetic uniformity – that beautifully blends with his charming personality.

THE INVESTIGATIONS

On clinical exam and X-ray analysis it was seen:

- Class II occlusion; deep bite with malpositioned upper incisors.
- The crown on the right maxillary central incisor was grossly mismatched with the adjacent teeth.
- Severe crowding in the lower incisors made brushing difficult, inducing chronic gingival inflammation.
- Missing right maxillary first molar.
- The midline, however, was correct.
- Wear and tear of upper and lower anterior teeth due to bruxism.



Dr. JEANNE

Installed in Grenoble since September 2022, Dr. Jeanne obtained her diploma in dental surgery from the European University of Madrid in June 2022.

A general practitioner, she is developing a growing expertise in aesthetic dentistry.

To deepen her skills in this field, she completed specialized training at the Académie du Sourire in Aix-en-Provence in 2022-2023, as well as TrioClear™ level 1 and level 2 certifications during the same period.

TREATMENT PLAN

Though Dr Jeanne considered a purely prosthetic solutions first, given the patient's occlusion and parafunctional habits this option was not suitable. Hence, a comprehensive approach was adopted, combining restorative treatments with an pre-restorative tooth alignment procedure.

Treatment Phases

- Teeth alignment
- The TrioClear aligners were used for a period of 18 months.
- 12 months of active treatment:

The following steps were performed to support the aligners therapy for the first 12 months:

- Interproximal reduction (IPR) on 12 11 21 22 23. This step created the space necessary to achieve the desired positioning of the teeth.
- Cleats placed on -
 - o SECTOR 1: 17 15 14 13 12 11
 - o SECTOR 2: 21 23 24 26
 - o SECTOR 3: 33 35 37
 - o SECTOR 4: 43 44 46
- The finishing phase: (6 months of treatment) After the active phase of treatment with TrioClear™ dental aligners, the dentist requested a series of finishing aligners to perfect the rotation of tooth 12 and the alignment of the cervical regions of the lower incisors.

RESULT



BEFORE TRIOCLEAR



AFTER TRIOCLEAR

The pre-restorative tooth alignment is a game-changing solution for smile makeover cases such as these. When parafunctional habits and malocclusions reduce the possibility of aesthetic outcomes and longevity of prosthetic solutions, teeth alignment FIRST is a MUST.

The aligner therapy corrected the teeth alignment, the overbite and improved the patient's oral hygiene, building a stable and ideal foundation for the restorative phase. It also allowed independent restorations in the maxillary arch, in line with the patient's wish of not to treat the lower teeth.

This technique allowed a conservative approach too. There was no need to excessively shape teeth and compromise the underlying dentin in an attempt to uniformly align the teeth to receive the veneers and bridges. Dental alignment proved to be indispensable in ensuring prosthetic success that is durable, aesthetic, functional, and fully tailored to the patient's needs.

Dr. Jeanne has been practicing in Grenoble since September 2022. She earned her diploma in dental surgery from the European University of Madrid in June 2022. As a general practitioner, she is continually expanding her expertise in aesthetic dentistry. To further enhance her skills in this field, she completed specialized training at the Académie du Sourire in Aix-en-Provence during the 2022-2023 academic year. Additionally, she obtained TrioClear™ Level 1 and Level 2 certifications within the same period.

TREATMENT GOALS

What did the patient want?

The patient wanted to look good and fix his smile using simple non-invasive restorative dental procedures.

The final treatment objectives were:

- Achieve a harmonious smile by realigning the teeth and correcting the Class II occlusion, and the crowding and rotation of teeth.
- Improve oral hygiene
- Get an aesthetic uniformity in the smile focusing on shade and colour matching.

RESTORATIVE TREATMENT



- Teeth whitening
- Anterior restorations:
 - Placement of veneers – 3 zirconia veneers were placed in the anterior teeth.
 - Fabrication of a monolithic dental bridge for the rest of the upper front teeth.
- Posterior restorations:
 - A posterior implant bridge was placed to replace the missing upper molar.
- Inlays on antagonist lower molars have been planned to further optimise the occlusion.



END RESULT



BEFORE



AFTER



FEEDBACK DR. JEANNE

The patient presented with the desire to achieve a more harmonious smile but was unsure where to start. Initially, we considered a prosthetic solution; however, due to the patient's occlusion and parafunctional habits, particularly bruxism, this option was not suitable.

It was therefore necessary to begin with dental realignment to establish a stable and optimal foundation. This approach allowed us to optimize the preparations without excessively compromising the dental structures, an essential step to preserve angulations and avoid over-preparation of the teeth.

Dental alignment proved to be indispensable in ensuring a prosthetic treatment that is durable, aesthetic, functional, and fully tailored to the patient's needs.

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