

## Nance – Eva appliance, applicability, recommendations

Onet M, Szekeres C, Hosszu T, Marian A, Elisei G, Lile I

**ABSTRACT.** This appliance is used in case of deep bites, for levelling the occlusal plane, curve of Spee. The essence of this article is to show by clinical examples how easy it is to use, how the patient puts up with it and how well and fast the treatment evolves especially for a younger patient. We have to notice the comfort of the patient, the steadiness of the appliance, namely that he does not have to worry that the appliance might get loose (as for the uplifting composites applied on the palatal sides of the maxillary cutting teeth). The period of action in the oral cavity is of 3-6 months.

### INTRODUCTION

The Nance – Eva appliance resembles the Nance button, except that the button of this appliance lies closely on the palatal sides of the superior front group (central cutting teeth, lateral cutting teeth, +/- canines) up to the incisal margins of the teeth vertically. The width of the acrylate at this level depends on how much we want to heighten the occlusion, namely to level the curve of Spee.

This appliance applies at the beginning of the treatment, offering the possibility to collate the fixed multiband appliance to the inferior arcade in case of deep bite as well.

Structure of the appliance: on two cemented rings bilaterally at the level of the superior grinders, the distal extremity of the appliance is introduced, namely two twisted arms made of steel wire of 1 mm diameter that mesial end into the acrylate intimately applied on the palate and palatal side of the frontal group.



### MATERIAL AND METHOD

The Nance – Eva appliance was applied to numerous patients, at the beginning of the orthodontic treatment, offering the possibility of collation on the superior arcade at patients with Angle Class 2 subdivision 2.

The images show the correction of the occlusion after several months.

#### CASE 1

Patient with Angle Class 2 anomaly, subdivision 1, with foramina and diastema at the level of the front teeth, deep bite, the inferior inter cutting teeth line deviated to the right with 4 mm.

After the application of Nance-Eva appliance, the brackets could collate on the inferior arcade teeth, conferring at the same time, in the alignment and rotation stage, the lifting of the occlusion. The final result is observed in the image below.



#### CASE 2

Patient with Angle Class 2 anomaly, deep bite, with crowded teeth and superior inter cutting teeth diastema, lack of space for the teething of 35, multiple rotations and dental inclines.

The Nance-Eva appliance was cemented, and then the self-ligating brackets were collated at the level of the superior maxillary and at the level of the inferior maxillary as well, obtaining the lifting of the occlusion in 5 months. As a whole the orthodontic treatment lasted one year and four months.



## RESULTS

Easy means of treating the deep bite, in a short time, not needing a high care/attention from the patient during the treatment, not being very fragile after the application. The results are to be seen in a short period of time.



## REFERENCES

1. Graber/Schwain, - Grundlagen und moderne Techniken der Kieferorthopaedie, Quintessenz Verlags – GmbH 1989
2. Frans PGM van der Linden – Orthodontic Concepts and strategies, Quintessenz Publishing Co Ltd 2004