
ORTHOGNATHIC SURGERY & ORTHODONTICS

COMBINED TREATMENT

A CASE REPORT



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Dr. P.U. BEJOY, The joint secretary of IDA Kunnamkulam Branch & a clinician of orthodontics has the unique skill and spirit of Combining oral & maxillo facial surgery and orthodontics.

This article highlights this case report of such a team work done by Dr. P.U. Bejoy and Dr. Varghese Mani.

May this kind of team of team work bloom in our association & let this article by Dr. P.U Bejoy, MDS, bear the fruit of such inter disciplinary brilliance forever and ever.

COMBINED ORTHOGNATHIC SURGERY AND ORTHODONTICS

A Case Report

Abstract

Combined Treatment of orthognathic Surgery with Orthodontics for severe Skeletal malocclusion can drastically improve facial esthetics

A Case report of a treatment Case.

Introduction

The Primary goals of Orthodontic treatment are:

- Esthetics
- Function
- Stability.

Most of the severe skeletal malocclusions in adults can be treated with the help of Surgical & Orthodontic Management. These Cases need combined orthodontic and surgical Consultation and Treatment planning.

The procedure includes :- 1 presurgical Orthodontics for decompensation

2. A specific surgery and
3. Post surgical Orthodontics for better Occlusion.

Case Report.

An 18 year old girl reported in clinic with a complaint of increased visibility of incisors and gin via. 3 she had a history of previous Orthodontic treatment with unsatisfactory results.

On Examination she had

- 1) Convex profile
- 2) Incomplete lips
- 3) Excessive gingival show on smile (Gummy smile)
- 4) Class I molar relation
- 5) Severely proclined lower incisors.

Lateral Cephalogram Confirmed.

1. Increased Maxillary Vertical Excess

2. Class II Skeletal Pattern.
3. Reduced Mandible length.
4. Proclination of Upper and lower incisors.

OPG revealed Adequate bone support and root morphology

Treatment

Treatment started with Pre-adjusted edgewise appliance. Presurgical Orthodontics by extraction of lower 1st bicuspids and retraction of lower incisors to create Overjet.

Orthognatic Surgery:-

1. Lefort I maxillary impaction with anterior maxillary osteotomy to reduce vertical excess and auto rotation of mandible which will reduce convex profile.

Advancement Genioplasty to reduce facial convexity post surgical orthodontics to settle occlusion.

Photographs

- Pre Orthodontic
- Pre surgical
- After Surgery
- Post orthodontic treatment.

Conclusion

It is necessary to have a combined surgical and orthodontic treatment planning for skeletal malocclusions in adults for best results.

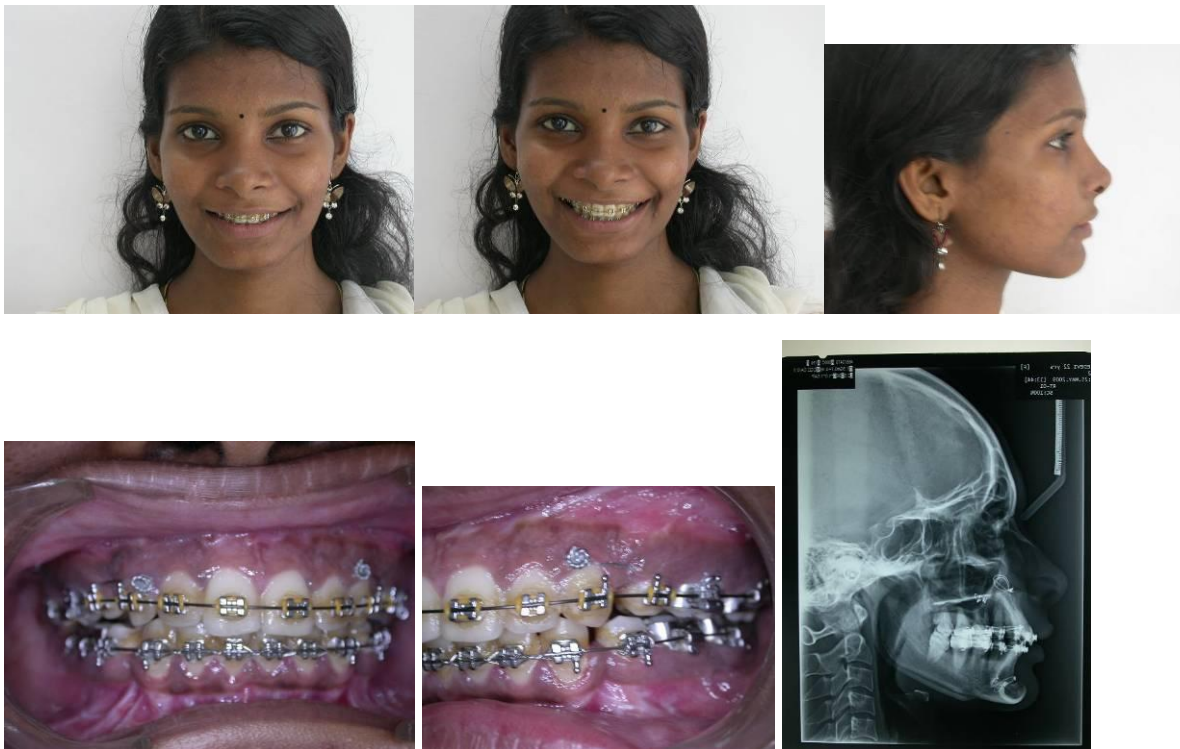
Aknowledgement.

My sincere thanks to Prof. Dr. Varghese Mani for the excellent surgery done for this patient.

BEFORE SURGERY



AFTER SURGERY



PRE ORTHODONTICS



POST ORTHODONTICS