

Attractive Patient Education Model

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Abstract:Orthodontists use study models to motivate and explain the patient for orthodontic treatment. These models are widely used for patient education and are essential part of any clinical practice. At present available study models are simple, made of fibre glass and are expensive to buy without any added advantage. We, therefore, developed colourful handmade patient education models which are easy to fabricate, more attractive and very cost effective for the clinician.

Keywords: colourful orthodontic cast, Orthokal (orthodontic stone class III) acrylic colours, patient education aids.

I. Introduction

“Colours are the smile of nature. Orthodontic study models available in the market today plain (simple standard colour) and expensive. Patient education models can be made more attractive and cost effective by using Orthokal (orthodontic stone class III) with acrylic colour which gives beautiful appearance and attract the adolescent. Multiple models can be easily made to show a variety of treatment modalities (fig1 & 2) without increasing the cost dramatically.

Fabrication

1. Orthokal powder
2. Acrylic colour
3. Heat cure denture

200gms of Orthokal (orthodontic stone class III) powder in clean bowl (fig 5) is taken and mixed with 56 ml of water with clean spatula. Acrylic colour with sparkle is added to this and mixed for 30-45 sec properly. The bowl is placed on the vibrator to remove all air bubbles. The mix is poured into the cast former (fig 6). Cast former is placed on the vibrator again to form a smooth cast and then left for final set. Heat cure denture bases are made with added colour in the acrylic mix.

Uses

- To motivate the patient for treatment.
- To provide knowledge to the patient about various bracket systems (ceramic brackets, metal bracket & self-ligating brackets) and treatment modalities (lingual treatment, clear aligners etc.).
- To attract young patients for orthodontic treatment and put them at ease in the clinical setup.
- To explain the treatment progress to the adolescent patient

Advantages

- These models are easy to fabricate in the laboratory without added cost.
- Orthodontic models available in market cost around Rs.3000-4000. The manufacturing cost of our models is not more than Rs.200 – 250.

II. Figures

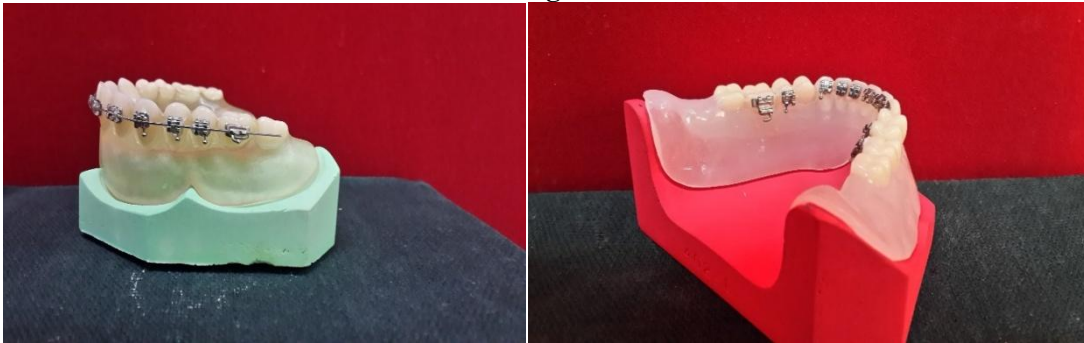


Figure 1 Figure 2



Figure 3



Figure 4



Figure 5



Figure 6

III. Conclusion

Young patients need to be sufficiently motivated throughout the duration of orthodontic treatment. Patient compliance is necessary for the treatment to be a success. Therefore, patient education aids play an important role in any successful clinical practice.

References

- [1]. Telma Martins De Araujo, Lilian Martins Fonseca, Luciana Duarte Caldas. Preparation & evaluation of orthodontic setup. Dental Press J Orthod; 2012 May-June;17(3)146-65.
- [2]. Han, U. Consistency of orthodontic treatment decisions relative to diagnostic records. Am J Orthod Dentofacial Orthop; 1991.100:212-219.
- [3]. Shruti Shastry; Jae Hyun Park. Evaluation of the use of digital study models in postgraduate orthodontic programs in United States & Canada. Angle Orthodontist, Vol84, No1,2014.