

## Aligners: science behind the mystery!!!

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### Abstract

Tooth and maxillofacial bones share many similarities. They embryologically originate from the neural crest sharing identical origin and many common proteins to bone, dentin and cementum. Extracted teeth being infectious material are often discarded as medical waste. The bone induction and absorbable properties of dentin encouraged researchers to introduce medical reprocessing of extracted human tooth and a novel grafting choice was availed to us. Interestingly, undamaged growth factors can be found in extracellular-matrix component of archaic human teeth. Use of tooth as a promising replacement substitute has been validated by various animal as well as human studies. Recently, several studies have reported the use of processed extracted teeth from patients as a very effective bone substitute for alveolar defects. Autogenous bone graft is the ideal choice for periodontal regeneration. Though widely used in GBR and Sinus grafting techniques, its use in periodontal intrabony defect is not documented. In the present case series, the tooth graft has been placed in periodontal intrabony defect. Postoperative CBCT after 26 weeks revealed homogeneous incorporation of tooth graft. Clinical parameters show bone fill. Reusing of potential teeth indicated for extraction as grafting material could help the patient benefit clinically, economically and effectively in cases of alveolar bone defects..

### Biography:

Hi I am Priyanka Saokar Navale BDS MDS (Orthodontist). I have done my BDS and MDS both through merit seats from MUHS and RGUHS and with distinction. I have my practice in Pune since eight years. I am owner of "Deccan Dental Clinic" which is Pune's most rated and most reviewed dental clinic. Deccan dental clinic is multispecialty centre where I have team of 20 dentists who are working with me. My clinic is ISO certified and I have eight dental chair unit set up. 'Deccan dental clinic' is considered as 'Times Of India's most trusted brand in field of dentistry. I have delivered more than 1000 smiles. I am associated with more than 35 dental clinics in Pune for orthodontic treatments.

In year 2019 I have opened my own high definition digital OPG center "deccan dental OPG" which is AERB approved. I have got first rank in 2017 PhD entrance test and currently I am doing my PhD in DY Patil Dental college in field of orthodontics. I am trying to invent a modality which will reduce treatment duration of orthodontic cases by almost half and currently working on it. I have teaching experience of eight years and currently I am working as a Reader in YCDC Nagar. I have done many publications including angel orthodontist and got awards for best paper and poster presentations.

I have interviewed for my work in dentistry by Times of India and they published it on national dentist day 2018. The Indian Express also took my interview and they published it on doctor's day year 2018. I was invited for LIVE program on TV by IBN Lokmat to guide people about orthodontics and braces and to answer their queries in April 2018. I also got interviewed in live talk show on Zee 24 taas for my work related to dentistry in May 2019. I have become part of Femina magazine in year 2018, they published my interview September issue all over India and I am guiding readers regarding their dental problems in upcoming years. I got interviewed in Maharashtra times as well as loksatta. I am proud to say I am part of Sakal health mantra magazine as well as Sakal Aarogya.

I also got award by MP Girish Bapat for my work in dentistry. Deccan dental clinic has conducted many dental camps as well as free seminars for people.

'Smile for all' is my motto and I am constantly working for it. In year 2019 on 26th January I got APJ Abdul Kalam National Award for my work in dentistry. We provide all advanced orthodontic treatments including aligners and lingual braces. I am certified for lingual orthodontic techniques as well as aligner technology. We use functional appliances regularly to do growth modification. Average duration of orthodontic cases at Deccan dental clinic is 1 to one and half years. I proud to say that I have delivered more than 1000 smiles on time!

**Citation:** Priyanka Saokar Navale; Aligners: science behind the mystery; Advanced Dentistry 2021; February 22, 2021