A treatment case accompanying multiple permanent teeth missing and anterior deep overbite

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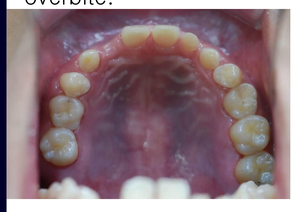
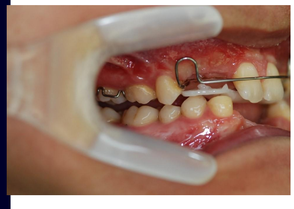
Chief Complaint : My 21-year-old son doesn't have 11 permanent teeth and has space between upper central incisors. We have heard his case is difficult because he has very thin bone ridge and deep overbite.



Problem Lists :
1. Missing teeth of upper both lateral incisors, canines , 2nd premolars, and right 2nd molar.
Also he has no lower four incisors and left cuspid.
2. Mild skeletal Cl III with Cl III canine key on right side and Cl III molar keys on both sides.
3. Linguoversion of upper and lower anterior teeth with deep overbite.

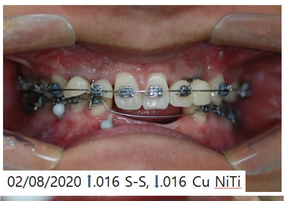


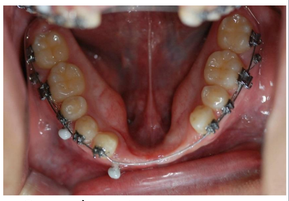
Tx process :
10/12/2018 : Upper both lateral incisors and cuspids area bone splitting and horizontal bone augmentation (InterOss[Xenograft]1.0g + InnoOss[Allograft]0.6cc, RegenoGide)
11/13/2018 : Lower both incisor area and left cuspid area bone splitting and augmentation
(the same materials)
02/28/2019 : 12i, 22i : Astra OsseoSpeed EV 3.0 S
23i : Astra TX 4.0 S installation

04/05/2019 : Upper anterior bite plate set-up and patient instructions

05/24/2019 : upper right #15 area sinus graft (lateral approach : InterOss 2.0g. Lyoplant[bovine collagen origin]) : for future site development (He is a foreigner and after explanation his mother and he accepted the procedure.)

06/28/2019 : upper left #25 area sinus graft(lateral approach : InterOss1.0g. Lyoplant)



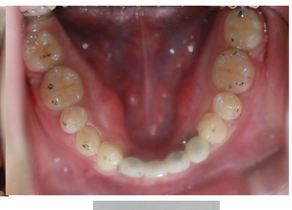


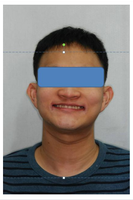
02/07/2020 : TADs(GS II 1.6 x 8 mm) installation on the site between lower right premolars and mesial side of right cuspid for intrusion

02/20/2020 : 25i : Straumann SP, 4.8mm RN, SLA 10mm Roxolid installation after hydraulic internal sinus elevaton (PRF membrane application followed by Bone Matrix I [Synthetic bone, MegaGen Company]+ autogenous bone insertion)

03/27/2020 : 32i, 42i : Straumann BL, 3.3mm NC, SLA 12mm Roxolid,

33i : Straumann BL, 4.1mm RC, SLA 12mm Roxolid installaton (InterOss 0.5g + InnoOss 0.3cc, Collagen Membrane[Genoss Company])





Note : Date marks are written by MM/DD/YYYY.

Appreciation : Dr. Byung Do Ham (Kainos Dental Clinic) and Members of KSP, Dr. Chung Ju Hwang (Osstem Ortho Company), Dr. Hyun Sik Hwang (Balance Wirye Dental Clinic), Dr. Il Young Kim (Crystal Dental Clinic)

My soul, wait thou only upon God ; for my expectation is from him. (Psalms 62 : 5)