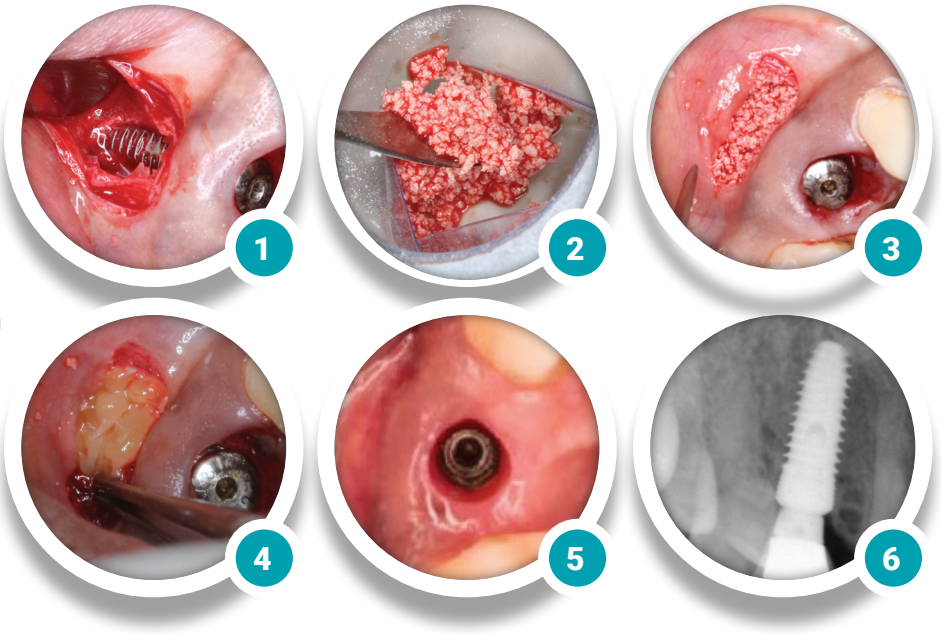
Case Studies

Case 1: Fenestration

(Case Courtesy: Dr. Narayan TV)

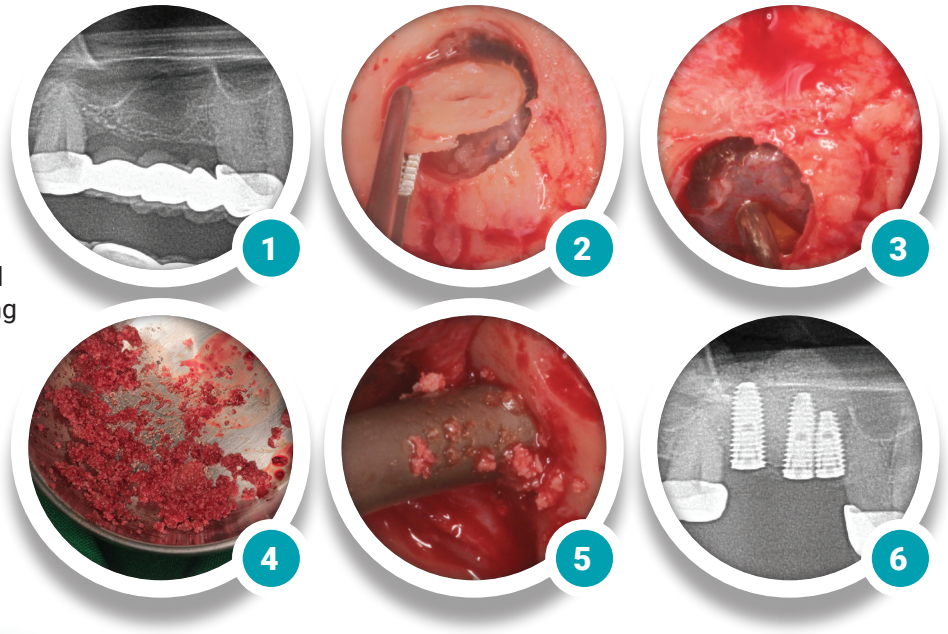
A 58 yr old patient presented with a failed endodontic treatment that necessitated extraction of the involved tooth. A fenestration defect in the apical 1/3 was discovered during the sounding of the socket. An implant was placed and a conservative buccal flap was raised to visualize the fenestration (1). Granules were mixed with blood prior to placement at the site (2,3). A PRF membrane was placed over the graft prior to suturing (4).
Four month follow-up image (5) shows tissue levels and contours were well maintained. A ten month follow up radiograph (6) demonstrates regenerated area with normal trabecular pattern..

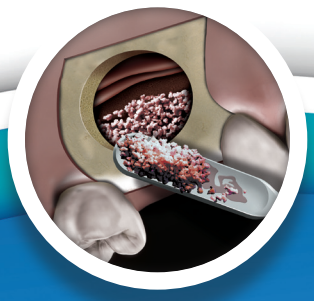


Case 2: Sinus Augmentation

(Case Courtesy: Dr. Narayan TV)

A 42-year-old patient presented with about 3-4 mm residual bone height (1) in the right maxillary posterior region. Sinus was accessed through a lateral window using piezo surgical system (2). The window was carefully removed (2) and the membrane was elevated (3). NovaBone granules mixed with blood was placed in the sinus using a bone carrier (4,5). 8-month post-op radiograph revealed about 14mm bone height in the region and the trabecular pattern suggestive of natural bone (6).

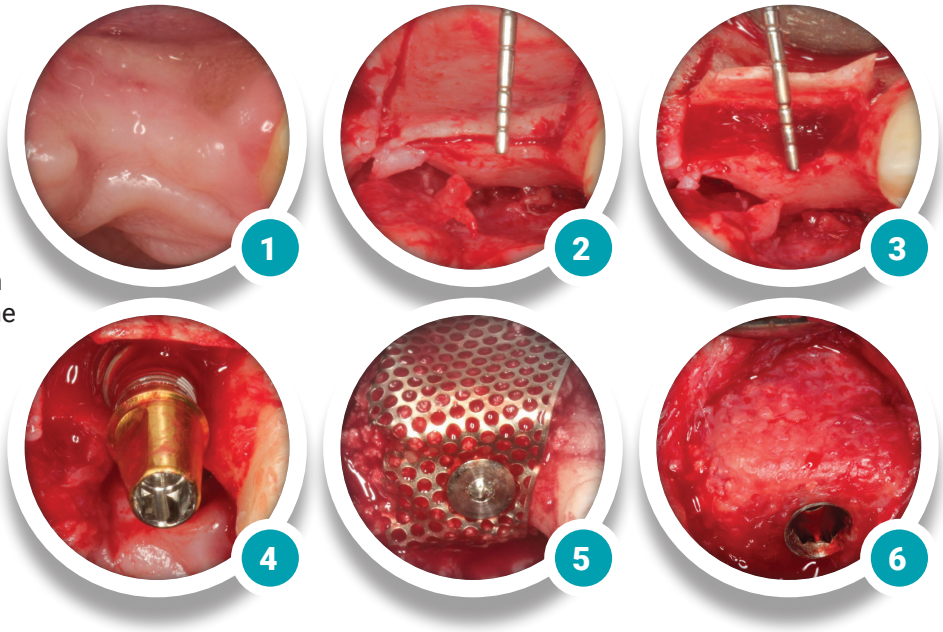




Case 3: Ridge Split & GBR

(Case Courtesy: Dr. Tarun Kumar)

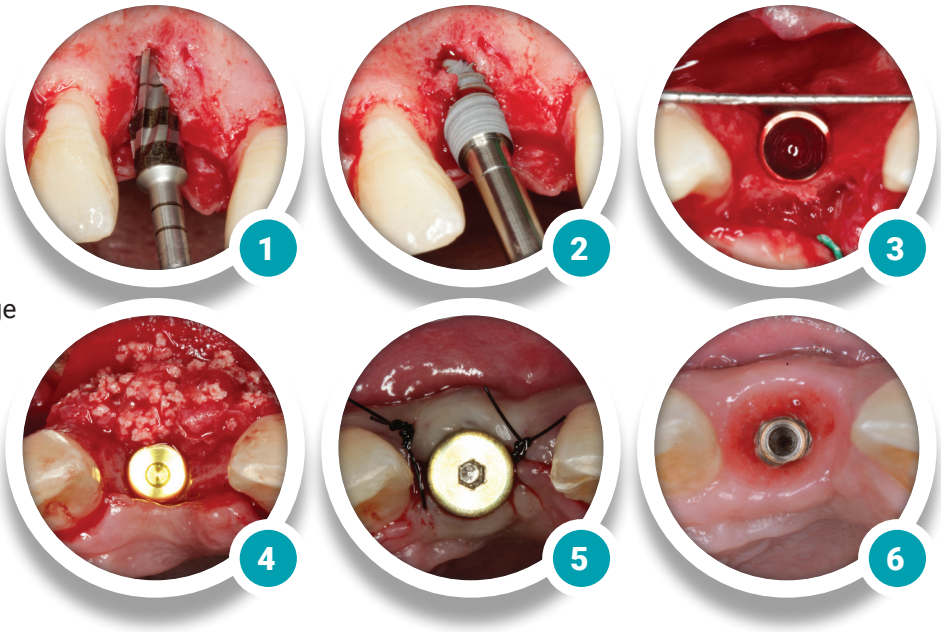
25 year old patient presented with a history of traumatic tooth Avulsion. Visual inspection revealed narrow ridge (approx. 2mm) in the region (1,2). Ridge Split (3) was performed using Piezo Surgical Tips and an implant was placed (4). Guided bone regeneration with Titanium Mesh and NovaBone(5) was chosen as the best possible option for building buccal bone. A 7 month re-entry to surgery to remove Ti-mesh showed excellent bone regeneration with healthy bleeding bone in the grafted area (6).



Case 4: GBR With Collagen

(Case Courtesy: Dr. Tarun Kumar)

A 32-year-old male patient presented with a sports injury resulting in fracture of the maxillary right central incisor. The affected tooth was extracted, and the area was allowed to heal for 3 months. A buccal defect was noticed during osteotomy and a flap was reflected for better visualization (1). Implant was placed (2) and a huge buccal dehiscence was noticed (3). GBR with NovaBone Granules mixed with blood and a slow resorbing collagen membrane was performed and sutured (4,5). During second stage (4 months after implant placement), clinical picture (6) demonstrates excellent bone volume and contour.

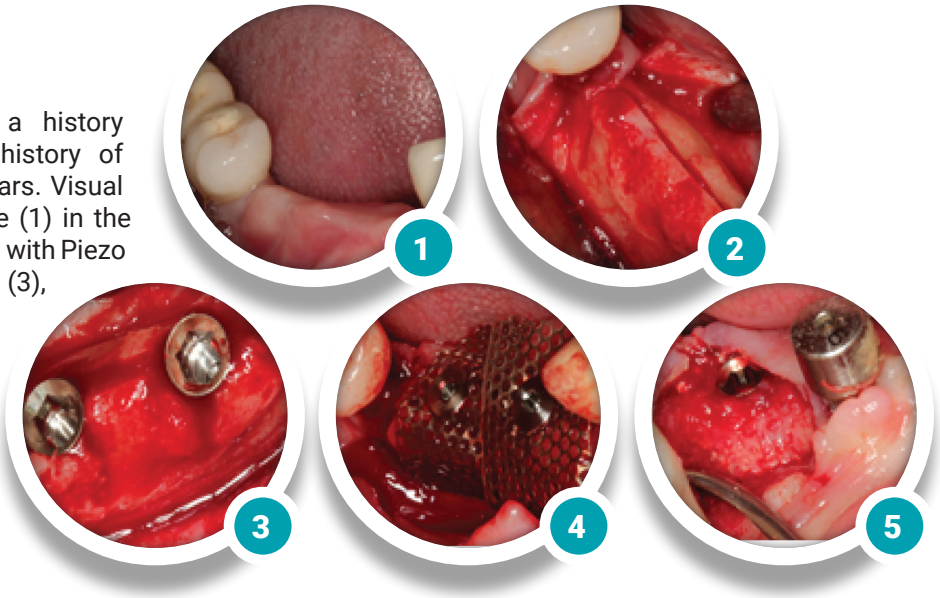


Case Studies

Case 5: Ridge Split + GBR

(Case Courtesy: Dr. Tarun Kumar)

65 year old patient presented with a history of traumatic tooth extraction and a history of endodonticaly treated lower left pre-molars. Visual inspection revealed a 3mm narrow ridge (1) in the region. Ridge Split surgery was performed with Piezo Surgical Drills (2) Implants were placed (3), Granules mixed with Blood was used to augment the bone (4) and covered with a Ti-mesh. Re-entry was performed 8 months to remove the mesh and healthy regenerated bone was noticed the region of the grafted area.



Clinical Publications

Osteostimulative calcium phosphosilicate biomaterials partially restore the cytocompalibility of decontaminated titanium surfaces in a peri-implantitis model. Karoussis IK, Kyriakidou K, Papaparaskevas J, Vrotsos IA1, Simopoulou M, Kotsakis GA. J Biomed Mater Res B Appl Biomater. 2018 Oct; 106(7):2645-2652. doi: 10.1002/jbm.b.34081. Epub 2018 Feb 5.

Clinical and Radiographic Evaluation and Comparison of Bioactive Bone Alloplast Morsels When Used Alone and in Combination With Platelet-Rich Fibrin in the Treatment of Periodontal Intrabony Defects – Human Randomized Controlled Trial. Girish H. Bodhare Abhay P. Kolte Rajashri A. Kolte Prerna Y. Shirke. 10.1002/JPER. 18-0416. July 2018

Guided Bone Regeneration Using Titanium Mesh with CPS Alloplast in the Esthetic Zone - A Case Report. Lanka Mahesh1, Manesh Lahori2, Rahul Nagrath2, Dipto2. 2014 June; Vol. 3, No. 1: 1-6

Sinus Augmentation Utilizing Calcium Phosphosilicate Biomaterial Followed by Delayed Implant Rehabilitation. Rayapayi D. Kumar, Honey Verna, NT Prashanth, ES Shobha. September-December 2013, 4(3): 102-107

Evaluation of Calcium Phosphosilicate (CPS) Based Graft Substitutes for Guided Bone Regeneration (GBR) Around Dental Implants: A Case Series. Sudhindra Kulkarni + Srinath Thakur ++ Srinivas Katta*. May 2013