A 17-year-old female with congenitally missing maxillary lateral incisors (teeth #7 and #10) was referred for consideration of dental implants. Clinically, the alveolar ridge was narrow on both the right and left sides because the normal eruption process of the permanent lateral incisors did not occur, resulting in underdevelopment of the alveolar bone. As a result, grafting was performed in preparation for implant placement.

**Augmentation of a Congenitally Deficient Ridge Utilizing a Composite of Allograft and Xenograft Hard Tissue Material**

Dr. Cary A. Shapoff, Diplomate, American Board of Periodontology, Fairfield, CT

A CBCT radiologic study demonstrated a 3mm wide alveolar ridge on the left side. The composite graft was covered with a collagen barrier (Mem-Lok® RCM) and a titanium-reinforced PTFE barrier (Cytoplast™) to maintain the space. Tension-free primary closure of the mucoperiosteal flap was obtained and maintained with 6-0 polypropylene sutures for 3 weeks. A CBCT at 7 months post-op shows excellent ridge augmentation with expansion from 3mm of width to 7mm of width prior to implant placement.
BioHorizons offers clinicians a variety of hard and soft tissue solutions. The diverse family of regeneration products can be used in a wide variety of grafting applications:

- ridge and sinus augmentation
- extraction socket grafting
- periodontal defects
- grafting for implant placement
- root coverage
- gingival augmentation

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MinerOss® X is an anorganic bovine bone mineral matrix that is physically and chemically comparable to the mineral structure of human bone. The complex trabecular architecture and natural consistency allow for ideal bone formation at the defect site.

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