



PERIO POINTERS

Osseous Grafting

There are multiple materials I could use to graft. I have used and no longer use, bovine, porcine, bioactive glass, enamel matrix protein, synthetics, and gore-tex. Most of these are just fillers with no new bone regeneration and others will give you inconsistent results. At the present time, I feel the best product to use is freeze dried demineralized bone (250-750 microns). The presence of bone morphogenic protein in the FDDB stimulates bone formation. There is a new product with platelet derived growth factor. I will give that at least 2 more years before I use it, as the results are inconclusive at this time. It is also very expensive.

Determine why the vertical defect is present. Rule out fracture. Generally, vertical defects are a result of an open contact, occlusal prematurity, bruxism, tooth position, flute, or furcation involvement.

Do not overfill the defect, use a collagen barrier to prevent epithelial downgrowth, and try to get primary coverage. Sometimes these sites will need a plasty of the tissue after healing.

I do not take an xray for a year as repair can take up to 24 months.

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A rich person is not one who has the most, but rather is one who needs the least.

Newsletter Spotlight

Next month we will discuss the use of socket repair membranes in anticipation of a future implant placement. This is slightly different from osseous grafting.

Case Study

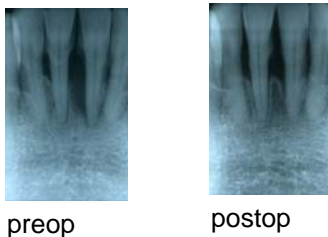


Figure 1



Figure 2

Keys to success in bone grafting of periodontal defects are:

1. Use freeze dried demineralized bone
2. Correct the cause of the defect
3. Meticulous debridement of hard and soft tissues
4. Injure the bone (1/2 round bur into cortical bone)
5. Complete tissue coverage of graft site
6. Be patient to allow regeneration to occur.

Significant repair is seen in the mandibular anterior of the top two radiographs between #24 and #25.

Deep defect present on the distal of #18 probing 8 mm. as seen in figure 1.

Figure 2 is 1 year later where we see almost complete osseous repair on the distal of #18.