What about biomaterials for alveolar ridge preservation?

Traditionally, autogenous bone, harvested from intraoral or extraoral sources, has been the gold standard grafting material in alveolar ridge preservation procedures.

Biphasic materials are alloplastic bone grafting materials that have been used in both medical and dental fields. Many of the papers on biphasic materials by various authors have found 42% mineralized tissue in their core samples, of which 18% was woven bone, 23% was newly formed lamellar bone and 1% was retained graft particles.

The proliferative phase is characterized by angiogenesis, collagen deposition and formation of granulation tissue. Angiogenesis, the growth of new blood capillaries from existing vessels inside the grafting material, is the key physiological process and is controlled by signals from proangiogenic molecules.

The use of biphasic material favors new bone formation and allows critical-size defects to heal without interfering in the regeneration process.

Dr. José Luis Calvo Guirado
Co-Editor