Abstract: It is not always possible to insert implant following tooth extraction. In addition, tooth extraction results in some physiologic changes both in hard and soft tissues around extracted tooth that according to some studies continues 12 months postextraction. Prevention of bone loss postextraction was first described by Greenstein (1985). The term socket preservation was first coined by Cohen (1988) for a procedure designed for prosthetic socket maintenance, ridge preservation, and ridge augmentation. It is important to note that in those patients in whom socket preservation procedures were used, there were few or no changes, and what changes that did occur were significantly less than when no treatment was performed. Different procedures with a variety of graft materials with and without soft tissue grafts recommended for socket preservation that their indications and contraindications will be discussed in details during lecture.