BioSurgery – Tissue Engineered Solutions for Hard and Soft Tissue Defects

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In the future, we will no longer perform passive surgical procedures. BioSurgery, surgical techniques including an active component, will result in a more robust outcome that is less invasive and more predictable for our patients. Tissue engineering brings together the power of modern chemical, physical and biologic sciences and represents a spectrum of novel approaches to achieve regeneration. This program will focus on the role of biologically active molecules and live cell devices to reawaken the body’s innate potential to regenerate. The audience will learn how to use platelet derived growth factor (rhPDGF) for the treatment of intrabony defects, as well as, recession type defects. The use of live dynamic cellular delivery devices will also be explored. Their ability to deliver “on demand” the cells, cytokines and growth factors critical to angiogenesis have the potential to rewrite the rules of regeneration.