

Lecture Title: Cells and Biologics for Treatment of Osteonecrosis

Session Title: Osteonecrosis: From Scaffolds to Cells to Biologics

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Cells and biologics for treatment of orthopaedic disorders including osteonecrosis (ON) are evolving. It has been a controversial topic in terms of their effectiveness in treating ON. Gangji et al and Hernigou et al have successfully used autologous bone marrow concentrate for treatment of early stage ON. Both investigators have reported mid- to long-term favorable results. Several clinical trials have been reported by several investigators showing favorable results. However, contradictory results were also reported using similar techniques and patient populations. In addition, many questions are yet unanswered and only limited information is available in the literature in terms of high level of evidence clinical trials and surgical techniques in humans using cells and biologics as adjunct therapies. This lecture will review current status related to cells- and biologics-utilizing surgical techniques and explore some of the limitations of using such therapies for osteonecrosis.