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Safety and clinical efficacy from a non-profit stem cell registry tracking of >5000 orthopedic patients

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The Interventional Orthopedics Foundation Registry was first founded in 2005 to track patients treated with culture expanded, bone marrow mesenchymal stem cells, as well as bone marrow concentrate (BMC). It is the largest and oldest clinical registry in existence in the arena of orthopedic stem cell therapy. 15 clinical studies have been published from this prospective dataset including large scale safety (n=2372) of all tracked treatments, the efficacy of BMC and fat graft for knee OA (n=681), BMC for hip OA (n=196) and BMC for shoulder OA and rotator cuff tears (n=102). Several other small case series have been published in the areas of stem cell treated knee anterior cruciate ligament (ACL) tears, hand osteoarthritis, and fracture delayed and non-union. In addition, a dosing paper for knee arthritis has also been published showing a lower limit of cellular content needed to provide functional relief. This lecture will review this published data as well as additional non-published data culled from the registry. The preliminary results of three new randomized controlled trials on the use of a specific protocol of BMC to treat knee osteoarthritis, shoulder rotator cuff tears, and knee ACL tears will also be reviewed.

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