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## Analysis of outcomes following mesenchymal stem cell therapy in subjects with musculoskeletal conditions

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Musculoskeletal conditions are major public health problems and often associated with reduced function and pain. Musculoskeletal-related pain is affecting more than one third of the adult population worldwide. Pain reduction is one of the main outcomes to determine the success of therapy of subjects with most common orthopedic conditions. Inflammation plays an important role in the occurrence of acute and chronic musculoskeletal-related pain. Numerous investigations suggest that Mesenchymal Stem Cells (MSCs) represent a valuable tool for therapy of inflammation and regeneration of tissue damage. BHI Therapeutic Sciences offers a novel method of arthritis therapy using a patient's own stromal vascular fraction (SVF) cells including MSCs. The therapy is available at Malacky Hospital in Slovakia. Blue Horizon International Slovakia is licensed by the Ministry of Health of Slovak Republic to provide adipose stem cell therapies for orthopedic joint applications - knees, hips, shoulders, and ankles. Procedures utilize cutting-edge technology and adult stem cells only. Results from patients' follow-up examinations and MRI scans showed that stem cell therapy was safe for the patients. Follow-up examination results conducted 10 days, 3 and 6 months after therapy have shown significant improvement of clinical condition relating to pain relief, improved mobility, which was shown also on the follow-up MRI scans of the affected joints.

### Biography

Brian M Mehling, MD, MS is a practicing American Orthopedic Trauma Surgeon, Researcher and Philanthropist. He started his path in Medicine through undergraduate study at Harvard University, obtaining Bachelor of Arts and Master of Science degrees in Biochemistry from Ohio State University. Completing his degree of Medicine at Wright State University School of Medicine, he received post graduate education through residencies and fellowships at St. Joseph's Hospital in Paterson, NJ and the Graduate Hospital in Philadelphia, PA, while pursuing a PhD in Chemistry. He operates his own practice, Mehling Orthopedics, in both West Islip, NY and Hackensack, NJ.

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