

What is Stem Cell Therapy?

Stem Cells are precursor cells that can mature into various forms such as bone, cartilage, tendon, tissue, etc. Stem cells can be derived from a Bone Marrow Concentrate (BMC), Adipose (Fat) tissue, synovial tissue, or peripheral blood. They are specific cell types that can create new cells in existing healthy tissues and may help to repair tissues in those structures that are injured or damaged when they differentiate into multi lineages and becoming multipotent under appropriate conditions. These precursor cells are now utilized to treat variety of musculoskeletal conditions.

At Town Center Orthopaedics, we use stem cells from a Bone Marrow Concentrate (BMC). BMC is usually aspirated from the hip bone using sterile technique under local anesthesia. The collected aspirate is then refined using a special kit and machine. The final concentrate which is rich in precursor cells is then injected into the area with tissue injury.

