

# Stem cell centers on the rise, claim high efficacy for treatment of knee osteoarthritis

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Even with a lack of peer-reviewed evidence, the number of centers advertising stem cell therapies for osteoarthritis (OA) of the knee are increasing in the United States. These centers claim an 80 percent success rate, according to research presented this week at the 2018 Annual Meeting of the American Academy of Orthopaedic Surgeons (AAOS). Of the 65 centers that provided pricing information to treat OA of the knee, the cost ranged from \$1,150 to \$12,000, with an average of \$5,000 per injection.

"Our role as [orthopaedic surgeons](#) is to provide accurate, credible information on [treatment](#) options to our patients," said George Muschler, MD, Professor of Orthopaedic Surgery and Director at the Regenerative Medicine Laboratory at Cleveland Clinic. "Recent systematic reviews of cellular therapies for the treatment of knee OA (over 400 papers screened) have found poor levels of evidence for the efficacy of these treatments to date. Current evidence does not justify the rapid rate of growth for these therapies."

Osteoarthritis affects more than 27 million Americans and an estimated 9.9 million adults suffer from OA the knee. Risk factors include age, genetics, being overweight, and repetitive knee bending or heavy lifting.<sup>ii</sup> Women have an increased risk of osteoarthritis of the knee as they age.<sup>ii</sup> OA of the knee causes joint pain, stiffness and makes movement difficult.<sup>ii</sup>

## Study details

The researchers contacted 317 U.S. centers that offer direct-to-consumer stem cell musculoskeletal treatments. All communications were via phone or email. The 273 that were successfully contacted were asked for information on same-day stem cell injections for OA of the knee, including clinical efficacy and cost.

Sixty-five centers provided pricing for a same-day stem cell unilateral [knee](#) injection. The mean cost for each therapy was \$5,156, with prices varying from \$1,150 to \$12,000. Fourteen centers charged less than \$3,000 and 10 clinics charged more than \$8,000 per injection. As insurance doesn't cover stem cell treatments, coverage is paid 100 percent by the patient.

Regarding treatment effectiveness, 36 centers provided data with the mean marketed clinical efficacy of 82.2 percent. Ten clinics claimed 90-100 percent efficacy, 15 claimed 80 to 90 percent efficacy, 10 claimed 70 to 80 percent efficacy and one claimed 55 percent of greater clinical efficacy. The researchers found no correlation between treatment costs and marketed clinical efficacy.

"The claim of "stem cell" [therapy](#) carries a high level of expectations for the potential benefits, but research is still many years away from providing clear evidence of effective treatment to patients," said Nicolas S. Piuze, MD, lead author and Clinical Scholar in Orthopaedic Regenerative Medicine and Cellular Therapy in the Department of Orthopaedic Surgery at Cleveland Clinic. "As clinicians and researchers, we have ethical, scientific, legal and regulatory concerns. Patients need to be aware of the status of research within the field. If they receive information from anyone offering a treatment claim of an 80 to 100 percent successful recovery, they should be concerned in observance of published peer-reviewed evidence."

Provided by American Academy of Orthopaedic Surgeons

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