

## **Arthroscopic Hip Treatment Keeps Athletes In The Game**

Patients who undergo arthroscopic surgery for a mechanical disorder of the hip have a good chance of being able to return to their sport at a high level of competition, according to a study presented at the annual meeting of the American Orthopaedic Society for Sports Medicine. Almost 80 percent of patients were able to return to play after hip arthroscopy at an average of 9.4 months after surgery, and roughly 90 percent were able to return to the same level of competition.

“This study demonstrates that there is high rate of return to pre-injury level of function with arthroscopic intervention,” said Bryan Kelly, M.D., sports medicine orthopedic surgeon and co-director of the Center for Hip Pain and Preservation at Hospital for Special Surgery.

“Before this study we knew that hip impingement occurred in athletes, but we were not certain as to the degree of our ability to treat this arthroscopically with a successful return to full function.” He says arthroscopic surgery provides a viable alternative to open surgery and may allow for a faster recovery without compromising ultimate function in appropriately selected patients.

In recent years, a hip condition known as femoro-acetabular impingement (FAI) or hip impingement has become widely recognized in the medical community. In a healthy hip joint, the ball portion of the joint rotates freely in the cup, but in some people a bony bump on the upper thigh bone produces a situation where there is inadequate space for the hip bone to move freely in the socket. The result is damage to the socket rim and the cartilage that lines the bones, which can lead to hip arthritis.

While this syndrome can affect anyone who is genetically disposed to develop the condition, symptoms often appear earlier in those who are athletic. Athletes with the syndrome often present with complaints of pain, decreased range of motion, and the inability to perform at a high level of competition.

Previously, a few small studies had shown that hockey players could successfully return to play after undergoing arthroscopic surgery for FAI. To find out if this was the case with other athletes, investigators at HSS launched a study involving athletes from a variety of sports and in a much larger population. Investigators looked through the records of high level athletes who underwent arthroscopic surgery for FAI and had a minimum of one year of follow-up. Patients who had FAI in both hips were excluded.

X-rays showed an improvement in the anatomy of the hips, and investigators identified statistically significant improvements in the average MHHS scores before

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Published on Surgical Products (<http://www.surgicalproductsmag.com>)

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surgery compared with the post-op scores. “The MHHS score is a subjective outcome score that is used to measure the level of patient performance or ability to do certain activities on a scale of 1 to 100, with 100 being unlimited function and one not able to do anything,” Dr. Kelly said. Hip Outcome Scores, also measured using a similar scale, also improved from 78.8 before surgery to 91.4 after surgery.

Seventy-eight percent of patients were able to return to play after hip arthroscopy at an average of 9.4 months after surgery, and 91.7 percent were able to return to the same level of competition. Only two patients were unable to return to competition due to persistent hip injury. Dr. Kelly says there are no large studies assessing return to play after open surgery for FAI, but it is thought that the results would definitely not be as good given that open surgery is much harder on the body.

The researchers say that arthroscopic treatment of FAI allows a large percentage of athletes to return to a high level of competition and is a good alternative to open surgery in the appropriate patient.

**Source URL (retrieved on 02/01/2015 - 6:57pm):**

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