

## SLAP Tears Often Treated Successfully Without Surgery

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July 17, 2012 (Baltimore, Maryland) — Professional baseball players who get nonsurgical treatment for a superior labrum anterior–posterior (SLAP) tear in the shoulder can often return to play, according to findings presented here at the American Orthopaedic Society for Sports Medicine (AOSSM) 2012 Annual Meeting. After nonsurgical treatment, 4 of 10 pitchers and position players managed to return to play.

"However, many position players and most pitchers never achieved their prior performance," noted lead author Wasył W. Fedoriw, MD, an orthopedic surgeon at Methodist Hospital in Houston, Texas, who presented the findings. For pitchers who underwent physical rehabilitation, 22% were able to play as well as they previously had; for position players, that rate was 26%.

SLAP tears, first described in the literature in 1985, are caused mainly by repetitive throwing. Although surgical repair of SLAP tears is common, little is known about the effectiveness of nonsurgical pain relief.

To better understand the effectiveness of nonsurgical treatment for SLAP tears in professional baseball players, researchers at Methodist Hospital reviewed 119 charts from a single professional baseball organization and identified 68 players with SLAP tears documented with magnetic resonance imaging. All underwent nonsurgical treatment that focused on stretching the posterior shoulder capsule in internal rotation, especially in cross body adduction. Another part involved training scapular muscles to hold the scapula in a stable position during the wind-up and cocking phases. Those who failed 2 rounds of nonsurgical therapy went on to surgery.

Outcomes were defined as "return to play" for a player who played in at least 1 minor or major league game after treatment. Those who "returned to previous performance" returned to the same or a higher league and performed at their preinjury level.

Shoulder surgery rarely helps major and minor league pitchers play as well as they did before, the researchers note. For example, only 48% of pitchers who failed physical rehabilitation and then went on to surgery returned to play, and just 7% were able to play as well as they had before.

The researchers found that the presence of a partial tear of the rotator cuff worsened both nonsurgical and surgical outcomes. Level of play also seemed to affect outcome; better players were more likely to bounce back to previous performance levels of play.

John E. Kuhn, MD, associate professor of orthopaedic surgery and rehabilitation and chief of shoulder surgery at Vanderbilt University Medical Center in Nashville, Tennessee, who moderated the shoulder/labrum session, told Medscape Medical News that there are several takeaway messages from this study.

"A lot of these throwing athletes can be treated nonoperatively," Dr. Kuhn said. "They had very good success with that." He noted that patients who had surgery had a very poor rate of return to the preinjury level of play. "That suggests that patients can throw with SLAP lesions, and that not every

SLAP lesion needs to be repaired," he said. "Many can be rehabilitated; the sources of pain or disability may not be the SLAP lesion itself," he added.

Some surgeons might repair the tear without understanding that the problem could be adaptive. "It may be what allows the thrower to throw," he explained. It is possible that the SLAP tear allows some throwers to get into that extreme position of external rotation, which allows them to throw. "If you fix that, you could limit their ability to get into that position, and then they won't be able to throw hard or with high velocity again," Dr. Kuhn said.

Dr. Kuhn described the findings as "very significant." The research suggests that surgery in this patient population really should be a career-salvaging option, he explained. "It really shouldn't be something you throw at somebody quickly or early. Rehab them, do everything you can to prevent surgery," he concluded.

Dr. Fedoriw has disclosed no relevant financial relationships. Dr. Kuhn reports receiving grant and research support from Arthrex, and grant support from NFL Charities.

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