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Anatomy

- The elbow is the connection of the upper arm bone (humerus) and the two bones of the forearm (radius and ulna).
- The capitellum is a knob on the lower end of the humerus that forms a joint with cup-shaped end of the radius (radial head).
- The ends of the bones are covered with cartilage which allows a smooth gliding surface.



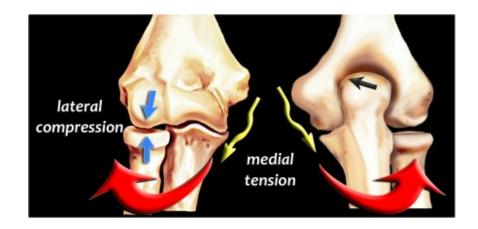
OMMG 2004





What is OCD?

- Injury to the bone below the cartilage
 - Due to loss of blood supply from repetitive trauma (e.g. throwing, gymnastics)
- Risk for instability and disruption of overlying cartilage
- May result in premature arthritis











Without surgery....

- The OCD won't heal
- Persistent pain
- Poor long term function
- Loose bodies
- Locking/catching
- Loss of motion
- Increased arthritis
- Decreased return to sport







Elbow Arthroscopy

Outpatient surgery (go home same day)

General anesthesia (asleep the whole surgery and won't feel anything)

Arthroscopic surgery with small incisions

Remove loose bodies

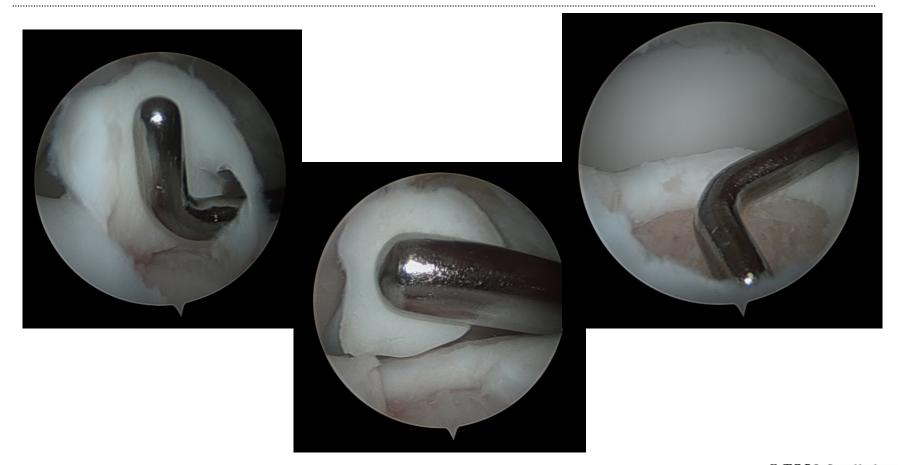
Debride (clean-up) defect







Debridement and Loose Body Removal







Complications and Considerations

Anesthesia
Bleeding
Nerve injury
Infection
Stiffness

Long-Term Clinical Outcomes of Osteochondritis Dissecans Lesions of the Elbow Treated with Arthroscopy

Michael Ryan, Benton Emblom, E. Lyle Cain MD, Jeffrey Dugas MD, Marcus Rothermich MD

Andrews Sports Medicine & Orthopaedic Center, American Sports Medicine Institute

Both Debridement and Microfracture Produce Excellent Results for Osteochondritis Dissecans Lesions of the Capitellum: A Systematic Review

Richard J. McLaughlin, M.D., Devin P. Leland, M.D., Christopher D. Bernard, M.D., Joaquin Sanchez-Sotelo, M.D., Ph.D., Mark E. Morrey, M.D., Shawn W. O'Driscoll, M.D., Ph.D., and Christopher L. Camp, M.D.

Revision surgery (2-13%)

Mostly redebridement

Return to <u>same level or higher</u> of sport (40-100%)

Westermann et al. *OJSM* 2016 McLaughlin et al. *ASMAR* 2021 Ryan et al. *AOSSM* 2021 Meeting

Return to Sport After Operative Management of Osteochondritis Dissecans of the Capitellum

A Systematic Review and Meta-analysis

Robert W. Westermann,*† MD, Kyle J. Hancock,† MD, Joseph A. Buckwalter,† MD, PhD, Benjamin Kopp,† BS, Natalie Glass,† PhD, and Brian R. Wolf,† MD, MS Investigation performed at the University of Iowa, Iowa City, Iowa, USA





Rehabilitation and Return to Sports

Sling for comfort Encourage range-of-motion exercises

Goal = full ROM by 6 weeks

Light elbow resistance exercises at 6 weeks

Advance loadbearing exercises
Return to sport at 6-8 weeks+
depending on sport







Conclusions

Goals = remove diseased tissue, return to sports
Surgery generally results in improved outcomes
Low rate of complications
Slow, progressive rehabilitation is key
Return to sports (6-8 weeks depending on sport)





Thank you for your attention!



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