

CURRICULUM VITAE**PERSONAL DATA**

Lanny Leo Johnson, M.D. as of January 1, 2018

Born: August 21, 1933 Highland Park, Michigan USA

Home: 314 East Crystal Downs Drive
Frankfort, MI 49635
231-399-0092

Mailing Address:
P.O. Box 2220
Frankfort, MI 49635
231-399-0092

California Address: (November to May)
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EDUCATION**DEGREE DATES**

| | | |
|---------------------------------------|------|-------------------------------|
| Wayne State University Detroit, MI | M.D. | 1955-1959 College of Medicine |
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| Michigan State University East Lansing, MI | B.S. cum laude | 1951-1955 |
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| Royal Oak High School (Dondero) Royal Oak, MI | | 1947-1951 |
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ORTHOPEDIC TRAINING**DATES**

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|--|---------------------------|
| Fellow in Hand Surgery Los Angeles Orthopedic Hospital Joseph H. Boyes, M.D. Herbert H. Stark, M.D. | July 1966 - December 1966 |
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American Medical Association

American Academy of Orthopaedic Surgeons (A.A.O.S.)

American Orthopedic Association (A.O.A.)

Clinical Orthopedic Society

Twentieth Century Orthopedic Association

American Orthopaedic Society for Sports Medicine

American Society of Shoulder/Elbow Surgeons

Michigan Orthopedic Society

Mid-States Orthopedic Society

The International Arthroscopy Association
Founding Member
Board of Directors

International Society of the Knee

Arthroscopy Association of North America (A.A.N.A.)

Michigan Osteopathic Orthopedic Society (Honorary)

Hughston Society (Honorary Member) 1991

The Neufeld Society of Loma Linda University (Honorary) 1996

Asociacion Argentina de Artroscopia (Honorary) 1998

International Cartilage Research Society: 2002

International Association for Joint Reconstruction 2006

LICENSURE AND CERTIFICATION

Michigan (active)

California (active)

Illinois (not active)

Missouri (1959-1964 not active)

Ohio (1964-1966)

Board Certified: American Board of Orthopedic Surgery (1968)

COMMITTEE ASSIGNMENTS

A.A.N.A. Archives Committee 2002 to present

ISAKAOS Documentation Committee: 1998

A.A.O.S. Nominating Committee: 1995.

A.A.N.A. Nominating Committee: 1987, 1989.

A.A.O.S. Professional Liability: 1988, 1989, 1990.

A.A.O.S. Ad Hoc Committee, Health Care Financing: 1988.

A.A.N.A. Socioeconomic Committee: 1986, 1987, Chairman 1988-1990.

A.A.N.A. Membership Committee: Chairman 1983-1985.

A.A.O.S. Committee on Exhibits: 1972-1979.

A.A.O.S. Ad Hoc Committee, Educational Questionnaire: 1972, 1977.

A.O.S.S.M. Socioeconomic Committee: 1990.

TEACHING

Seminars

Joint Preserving Treatment of the Knee: Sponsored by Johns Hopkins Department of Orthopedic Surgery. Marriott Hotel Williamsburg, VA. November 7-9, 2002

Articular Cartilage Repair: 2000. Workshop sponsored by Association of Bone and Joint Surgeons. November 10-12, 2000. Tampa, FL

Tahoe Knee and Shoulder Update: Tahoe, NV. December 1998, 1999.

Masters Course in Knee Surgery, AANA, Learning Center, Rosemont, IL.,
July 1996

Arthroscopic Surgery 1996, Robert W. Metcalf, MD Memorial, Scottsdale, AZ, January
1996.

Regaining Control of Your Orthopedic Practice, Dallas, TX,
January 1996, September, 1996, April 1997, April 1998, Nov 1998

Biodegradable Implants Seminar, AAOS Training Center, Rosemont, IL
October 1995.

Current Concepts in Sports Injuries, American Orthopedic Society Sports Medicine,
Kamuela, Hawaii, March 1995

Arthroscopy Seminar, University of South Carolina, Charleston, SC
June 1993.

Operative Arthroscopy Seminar, Salt Lake City, UT
January and April 1981, 1982, 1984, 1986, 1988, 1991, 1993.

Arthroscopy Shoulder Seminar, East Lansing, MI
(Principal Organizer) August 1984, December 1984, March 1985, August 1985,
December 1985, June 1986, December 1987, March 1988, September 1988, June 1989.

Instructional Courses A.A.O.S. Annual Meeting 1977, 1978, 1979, 1980, 1984, 1985,
1986, 1987, 1988, 1989, 1990, 1995, 1996, 1997, 1998, 1999.

Instructional Courses, AANA, Annual Meeting: 1994, 1995, 1996, 1997, 1998, 2000.

Summer Institute A.A.O.S., Boston, MA, September 1987.

Summer Institute A.A.O.S., Boston, MA, September 1983.

Arthroscopy Seminar A.A.O.S., Washington, DC, June 1983.

Arthroscopy Seminar A.A.O.S., Boston, MA, May 1983.

Arthroscopy Seminar A.A.O.S., San Diego, CA, November 1982.

Operative Arthroscopy Seminar, Lansing, MI (Principal Organizer) December 1977, May
1978, March 1979, April 1979, May 1979, September 1979, October 1979, November
1979, April 1980, September 1981, May 1982, September 1982.

Summer Institute A.A.O.S., Monterey, CA, September 1982.

Arthroscopy Seminar, Palm Springs, CA, May 1982.

Arthroscopy Seminar, A.A.O.S., Williamsburg, VA, March 1982.

Arthroscopy Seminar-1st International, Port St. Lucie, FL, January 1982.

Arthroscopy Seminar A.A.O.S., Scottsdale, AZ, December 1981.

Arthroscopy Seminar A.A.O.S., Washington, DC, November 1981.

Arthroscopy Seminar, Dixville Notch, NH, October 1981.

Arthroscopy Seminar A.A.O.S., New York, NY, September 1981.

Arthroscopy Seminar A.A.O.S., Palm Beach, FL, May 1981.

Guest Lecturer

Guest Lecturer. American Academy Orthopedic Medicine. May 17, 2016. Clearwater, FL.

Guest Lecturer. American Academy Orthopedic Medicine. May 1, 2015. New Orleans, LA.

Presidential Guest Speaker. Arthroscopy Association North America. April 23, 2015. Los Angeles, CA. *What I seen and learned since I started looking through an arthroscope.*

Keynote Speaker: AANA Annual Meeting, Washington D.C. April 23, 2008; *The Business of Medicine; Medicine First then Business.*

Keynote lecture; AAOS specialty day; AANA: *Intellectual Property; Protection and Promotion.* March 2008.

Soluzioni Biologiche in Chirurgia Ortopedica Milano, Italy 21September 2007
Autogenous Bone Grafting, Large Volume Articular Defects: Long term followup.

Inaugural Richard B. Caspari Memorial Lectureship. Arthroscopy Association of North America. Seattle, WA. April 19, 2001.

H. Relton McCarroll Visiting Professor. Washington University, St. Louis, MO. November 7-8, 2000.

International Shoulder Conference 2000. Gmunden, Austria. May 25-27, 2000

Louisiana Orthopaedic Association, 1999 Annual Meeting, New Orleans, LA, November

11-13, 1999. Presidential Guest Speaker

HPS Trade Group annual convention, Lansing, MI October 21, 1999
"Selective contracting. Are you ready?" and "Life is not an Internet Stock"

"God Father", Herodicus Society Annual Meeting, Bay Harbor, Michigan June 15-18, 1999.

Birmingham Orthopedic Society, May 14, 1999. Birmingham, Alabama

Adventist Hospitals of America; Y2K meeting. *The physicians approach to Y2K*. March 1999. San Francisco, CA.

University of Pittsburgh Medical Center. Visiting Professor October 21-22, 1998 in Division of Orthopedic Surgery.

Argentina Arthroscopy Association, Presidential Guest Speaker, Buenos Aires, Argentina, May 1998

Pennsylvania Orthopaedic Society, Presidential Guest Speaker, Annual Meeting, Orlando FL, April 1998.

Spanish Arthroscopic Society, Presidential Guest Speaker, Annual Meeting, Valencia, Spain October 1997

Florida Orthopedic Society, Annual Meeting, Orlando, FL. June 1997.

California Orthopedic Association, northern section. Monterey, CA April 1997.

National Institute of Health, Summer Fellowship, Veterinary School, Oklahoma State University, Stillwater, OK., June 1996

Southern California Orthopedic Institute: Fellowship Graduation Day, Van Nuys, CA, June, 1996

Miami Orthopedic Society, Miami, Fl. April 1996

Harold B. Boyd Lecture, Loma Linda Medical Center, Loma Linda, CA March 3, 1996

Citrus Orthopedic Society, Orlando, FL., January 1995

Jefferson Orthopedic Alumni Day, Philadelphia, PA, November 1993.

Hodgen Memorial Lecture, Residency Program, Grand Rapids, MI, November 1993.

Aruns Gallery Visiting Professor, Louisiana State University, New Orleans, LA, October

1993.

Visiting Professor, Duke University, Durham, NC, April 1993.

Distinguished Lecturer, A.S.M.I., Birmingham, AL, November 1991.

Visiting Professor, University of Texas, San Antonio, TX, October 1988.

German Arthroscopic Seminar, Dusseldorf, West Germany, May 1988.

Presidential Guest Speaker, Closed Meeting, American Shoulder & Elbow Surgeon's Meeting, Orlando, FL, November 1987.

Swiss Arthroscopy Seminar, Lugano, Switzerland, September 1987.

A.A.O.S. Knee Meeting, Portland, OR, August 1986.

A.A.O.S. Arthroscopy Meeting, Itaska, IL, July 1986.

Maine Orthopedic Review, June 1986.

Arthroscopy of the Shoulder, Colorado Springs, CO, October 1985.

Boston Orthopedic Club, Boston, MA, January 1984.

Physician's Day, Gary, IN, September 1983.

Virginia Orthopedic, Hot Springs, VA, May 1982.

St. Paul Hospital, St. Paul, MN, March 1982.

Visiting Professor, Buffalo Medical College, November 1981.

Quebec Orthopedic, Montreal, Quebec, Canada, November 1981.

New York Hospital for Joint Disease, May 1981.

Scandinavian Orthopedic Society Presidential Guest Speaker, June 1978.

Hollywood Academy of Medicine, April 1978.

University of Keil, Keil, Germany, German Endoscopic Meeting, March 1978.

First Scandinavian Arthroscopy Seminar, September 1977.

Detroit Orthopedic Academy, April 1977.

Faculty - Continuing Education Programs

Mexican Orthopedic Society Meeting, Cancun, Mx. October 1998.

Medical Practice Initiatives: Dallas, TX 1996, 1997, 1998.

A.A.O.S. Continuing Education Courses, Knee/Shoulder: 1993 Nashville.

A.A.O.S. Continuing Education Courses on the Shoulder 1987, 1988, 1989, 1990, 1991.

A.A.O.S. Continuing Education Courses on the Knee Joint and Arthroscopy, 1975-1984.

U.C.L.A., Arthroscopic Surgery, October 1973, April and October 1978, November 1985, October 1987.

University of Georgia, Arthroscopy Seminar, October 1980.

University of Texas, Arthroscopy Seminar, April 1980.

University of Utah, Arthroscopy Seminar, January 1979, 1980.

Emory University, Knee Joint Surgery, April 1978.

National Symposium

Economic Symposium: AANA Annual meeting Vancouver B.C. April 1999.

Uses and Abuses of Arthroscopy, A.A.O.S. Annual Meeting, Washington, D.C., 1992.

Health Care Delivery, A.A.O.S. Annual Meeting, Las Vegas, NV, 1990.

Medical Malpractice, A.A.N.A. Annual Meeting, Washington, DC, 1988.

Computers in Medicine, A.A.N.A. Annual Meeting, Houston, TX, 1987.

Computers in Medicine, A.A.O.S., Instructional Course, Annual Meeting, New Orleans, LA, 1990.

BIBLIOGRAPHY

Published Articles or Letters by Invitation in Peer Reviewed Journals

Topol GA, Podesta LA, Reeves KD, Giraldo MM, Johnson LL, Grasso R, Jamín A, Clark T, Rabago D. Chondrogenic Effect of Intra-articular Hypertonic-Dextrose (Prolotherapy) in Severe Knee Osteoarthritis. *PM R*. 2016 Nov;8(11):1072-1082. doi: 10.1016/j.pmrj.2016.03.008. Epub 2016 Apr 4.

Johnson LL, Pittsley A, Becker R, DeYoung A. A Novel Quantitative Pain Assessment Instrument That Provides Means of Comparing Patient's Pain Magnitude With a Measurement of Their Pain Tolerance. *Journal of Clinical Medicine Research*. Vol. 7, No. 10, Oct 2015. doi: <http://dx.doi.org/10.14740/jocmr2277e>

<http://www.jocmr.org/index.php/JOCMR/article/view/2335>

<http://www.jocmr.org/index.php/JOCMR/article/view/2335/pdf>

Johnson LL. What I have seen and Learned Since Looking Through an Arthroscope: 43 years and Counting. *Arthroscopy*, Aug 2015; vol 31, (8), pp 1571-1575.
Johnson LL, Spector M. The New Microfracture: All Things Considered. *Arthroscopy*; Vol.31. Issue 6, p 1028-1031. June 2015.

Johnson LL, Delano MC, Spector M, Pittsley A, Gottschalk A. The Long-Term Clinical Outcomes Following Autogenous Bone Grafting for Large-Volume Defects of the Knee 12- to 21-Year Follow-Up. *Cartilage*, April 2014; vol. 5, Issue 2: pp. 86-96. Published online before print January 21, 2014, doi:10.1177/1947603513518216 *Cartilage* January 21, 2014;1947603513518216

Johnson LL, Delano MC, Spector M, Jeng L, Pittsley A, Gottschalk A. The Biological Response following Autogenous Bone Grafting for Large-Volume Defects of the Knee: Index Surgery through 12 to 21 Years' Follow-up. *Cartilage* Volume 3 Issue 1 January 2012 pp. 85 - 98. *Cartilage*, first published on August 16, 2011 as doi:10.1177/1947603511413568

Johnson LL, Verioti C, Gelber J, Spector M, D'Lima D, Pittsley A. Pathology of the end-stage osteoarthritic lesion of the knee: Potential role in cartilage repair. *Knee*. 2010; 18(6). 402-406.

Zhang D, Johnson L, Hsu, H-P, Spector, M. Cartilaginous Deposits in Subchondral Bone in Regions of Exposed Bone in Osteoarthritis of the Human Knee: Histomorphometric Study of PRG4 Distribution in Osteoarthritic Cartilage. *J Ortho Res*. 2007; 873-883.

Wei N, Johnson LL, Seely BL, Delauter SK. Arthroscopically Guided Jamshidi Needle biopsy of Articular Cartilage: Potential Utility in the Evaluation of Disease Modifying Osteoarthritis Drugs (DMOADS) *J Applied Research* Vol. 3; #3.

Vickers SM, Johnson LL, Zou LQ, Vannas IV, Gibson LJ, Spector M. Expression of alpha-smooth Muscle Actin by and Contraction of Cells Derived from Synovium. *Tissue Engineering*, 2004; 10(7/8);1214-1223.

Johnson, LL. Arthroscopic Abrasion Arthroplasty: A Review. *Clin Orthop*. 2001: 391S; S306-S317.

Johnson LL, Morrison KM, Wood DL. The application of arthroscopic principles to bone grafting of delayed union of long bone fractures. *Arthroscopy*. 2000; 16(3):279-289.

Johnson LL, Feagin, JA Jr. Autogenous tendon graft substitution for absent knee joint meniscus: A pilot study. *Arthroscopy*. 2000; 16(2);191-196.

Johnson, LL. What is going on in medicine? Guest Editorial *Orthopedics*. 2000;23(3); 191-193.

Balch OK, Collier MA, BeBault LE, Johnson, LL. Bioabsorbable Suture Anchor (Copolymer 85/15 D,L lactide/glycolide) Implanted in Bone: Correlation of Physical/Mechanical Properties, Magnetic Resonance Imaging, and Histological Response. *Arthroscopy* 1999; 15 (7): 691-708.

Green JR, Nemzek JA, Arnoczky SP, Johnson LL, Balas, MS. The Effect of Bone Compaction on Early Fixation of Porous-Coated Implants. *J Arthroplasty* 1999;14(1);91-97.

Johnson LL, vanDyk, GE, Green JR III, Pittsley AW, Bays B, Gully SM, Phillips JM. Clinical Assessment of Asymptomatic Knees: Comparison of Men and Women. *Arthroscopy* 1998;14(4):347-359.

VanDyk GE, DeJardin LM, Flo G, Johnson, LL. Cancellous Bone Grafting of Large Osteochondral Defects: An Experimental Study in Dogs. *Arthroscopy* 1998;14:311-320

Pullin GJ, Collier MA, Johnson LL, BeBault LE, Walls RC. Holmium: YAG laser – assisted capsular shift in a canine model: Intraarticular pressure and histological observations. *J Shoulder Elbow Surg* 1997;6:272-285

Johnson LL, Johnson AL, Colquitt JA, Simmering MJ, Pittsley AW. Is it possible to make an accurate diagnosis based only on a medical history? A pilot study on women's knee joints. *Arthroscopy* 1996; 12:709-714.

Uitvlugt, G; Detrisac, DA; Johnson, LL, Austin, MD; Johnson, CA. Arthroscopic Observations Before and After Manipulation of Frozen Shoulder. *Arthroscopy* 1993;9(2):181-195.

Johnson LL, vanDyk GE. Metal and Biodegradable Interference Screws: comparison of Failure Strength. *Arthroscopy*. 1996;12(4): 452-456.

Pullin, JG; Collier, MA; Das, P; Smith, RL; DeBault, LE; Johnson, LL; Walls, RC. Effects of Holmium:YAG Laser Energy on Cartilage Metabolism, Healing, and Biomechanical Properties of Lesional and Perilesional Tissue in a Weight Bearing Model. *Arthroscopy* 1996;12(1):15-25.

Johnson, L. L., Becker, R. L.: An Alternative Health Care Reimbursement System-Application of Arthroscopy and Financial Warranty-Results of a Two Year Pilot Study. *Arthroscopy*. 1994;10(4):462-470.

Johnson LL, van Dyk, GE. Arthroscopically Monitored ACL Reconstruction: Compaction Drilling and Compression Screw Fixation. In: Feagin, John A, Jr. *The Crucial Ligaments*. New York: Churchill Livingstone. 1994, 555-594.

Collier, M.A., Haugland, L. M., Bellany, J., Johnson, L. L., Rohrer, M. D., Walls, R. C., Bartels, K. E.: Effects of Holmium; YAG Laser on Equine Articular Cartilage and Subchondral Bone Adjacent to Traumatic Lesions: A Histopathologic Assessment. *Arthroscopy Journal*, 1993;9(5):536-545.

Detrisac, D. A., Johnson, L. L.: Arthroscopic Shoulder Capsulorrhaphy using Metal Staples. *Arthroscopy and Related Surgery*, 1993; 24(1):71-88.

McGinty, J. B., Johnson, L. L., Jackson, R. W., McBryde, A. M., Goodfellow, J. W.: Uses and Abuses of Arthroscopy: A Symposium. *J. Bone and Joint Surg.*, 74-A(10):1563-1577, 1993.

Uitvlugt, G; Detrisac, DA; Johnson, LL, Austin, MD; Johnson, CA. Arthroscopic Observations Before and After Manipulation of Frozen Shoulder. *Arthroscopy* 1993;9(2):181-195.

Johnson, L.L. The Outcome of a Free Autogenous Semitendinosus Tendon Graft in Human Anterior Cruciate Reconstructive Surgery: A Histological Study. *Arthroscopy* 1993;9(2):131-142.

Johnson, L. L., Bays, B. M., van Dyk, G. E.: Vincula of the Biceps Tendon in the Glenohumeral Joint: An Arthroscopic and Anatomic Study. *J. Shoulder and Elbow Surg.*, 1(3):162-166, 1992.

Johnson LL. Characteristics of the immediate post arthroscopic blood formation in the knee joint. *Arthroscopy*. 1991; 7(1):14-23.

Johnson, L. L.: Sports & Medicine - Who is Influencing Whom? 1990 John C. Kennedy Lecture. *Am. J. Sports Med.*, 649-654, 1990.

Johnson, L. L., Uitvlugt, G., Austin, M. D., Detrisac, D. A., Johnson, C.: Osteochondritis Dissecans of the Knee: Arthroscopic Compression Screw Fixation. *Arthroscopy* 1990:

6(3):179-189.

Johnson, L. L.: A Rationale for Systematized Record Keeping and Improved Documentation, "Twenty Years at the Bed Side, Doc". *Arthroscopy* 1987; 3:258-264, 1987.

Johnson, L. L.: The Shoulder Joint: An Arthroscopist's Perspective of Anatomy and Pathology. *Clin. Orthop.*, 223:113-125, 1987.

Johnson, L. L.: Arthroscopic Abrasion Arthroplasty Historical and Pathological Perspective: Present Status. *Arthroscopy Journal*, 2:54-69, 1986.

Johnson, L. L., Fu, F.: Status of Arthroscopic Training in Orthopaedic Residency Programs: September 1982. *Orthop. Survey*, March/April 1983.

Johnson, L. L., Ferguson, A., Fu, F.: Present Status of Arthroscopy in the United States: September 1981. *Orthop. Survey*, May/June 1982.

Johnson, L. L.: Impact of Diagnostic Arthroscopy on the Clinical Judgment of an Experienced Arthroscopist. *Clin. Orthop.*, 167:75-83, 1982.

Johnson, L. L., Shneider, D., Austin, M., Goodman, F., Bullock, J., DeBruin, J.: Two Per Cent Glutaraldehyde: A Disinfectant in Arthroscopy and Arthroscopic Surgery. *J. Bone and Joint Surg.*, 64-A:237-239, 1982.

Johnson, L. L.: Arthroscopy of the Shoulder. *Orthop. Clin. N. Am.*, 11:197-204, 1980.

Johnson, L. L.: The Lateral Capsular Ligament Complex, Its Anatomical and Surgical Considerations. *J. Sports Med.*, May/June 1979.

Stark, H. H., Boyes, J. A., Johnson, L. L., Ashworth, C.: The Use of Paratenon, Polyethylene Film or Silastic Sheeting to Prevent Restricting Adhesions to Tendons in the Hand. *J. Bone and Joint Surg.*, 59-A:909-913, 1977.

Shneider, D. A., Johnson, L. L.: Peripheral Detachment of the Meniscus: Arthroscopic and Clinical Correlations. *Orthop. Review*, 9:54-59, 1977.

Johnson, L. L., Shneider, D., Goodman, F., Bullock, J. M., DeBruin, J.: Cold Sterilization Method for Arthroscopes Using Activated Dialdehyde. *Orthop. Review*, 9:75-77, 1977.

Johnson, L. L., Becker, R. L.: Arthroscopy: Technique and the Role of the Assistant. *Orthop. Review*, 9:31-43, 1976.

Johnson LL, Lottes JO, Arnot JP. The utilization of the Holt Nail for proximal femoral fractures. *J Bone Joint Surg* 50A(1) 67-78, 1968.

Johnson, L. L.: Open Shoulder Spica. *AMA Archives of Surg.*, 92:161-163, 1966.

Johnson, L. L., Kempson, R.: Epidermoid Carcinoma in Chronic Osteomyelitis: Diagnostic Problems and Management. *J. Bone and Joint Surg.*, 47-A:133-145, 1965.

II. Books and Chapters in Books

Johnson LL. Arthroscopic Abrasion Arthroplasty. In *Surgical Techniques for the Knee*. Cushner FD, Scott WN, Scuderi GR. Pages 53-54. Thieme 2005

Johnson LL. Shoulder Arthroscopy: Struggles and Successes In *Shoulder Arthroscopy and MRI Techniques*. Lajtai G, editor Chapter 1: pages1-23. Springer 2003.

Johnson LL. Taking Medicine Back: Dx and Rx for orthopedic surgeons. *Clinics in Sports Medicine* 12 (2002) 1-28. Elsevier Science, USA.

Johnson LL, Morrison KM, Wood DL. Endoscopic Approach to Bone Grafting: Delayed-Union, Long Bone Fractures: In *Advanced Arthroscopy*. Editor: James C.Y. Chow, M.D. Chapter 54, pages 713-722. Springer 2001.

Johnson LL: In *Techniques in Orthopedics*. Editor Bernard R. Bach Jr., M.D December 1999 Bone Compaction Techniques in Knee Ligament Reconstruction. Volume 13 Number 4,341-352.

Johnson, L. L.: In *Reconstructive Knee Surgery*. Editor, Jackson, Douglas W. Chapter 5, Meniscus Repair Outside-In Technique, Raven Press, 1995.

Johnson, L. L., In *The Crucial Ligaments 2nd Addition*. Editor, Feagin, Jr., J. A. Arthroscopically Monitored ACL Reconstruction: Compaction Drilling and Compression Screw Fixation, Churchill Livingstone, New York, 1994. Chapter 24.

Johnson, L. L., Zarins, B., Cugat, R.: Tratamiento del Síndrome de la Compresión del Manquillo de los Rotadores, In *Principios de Arthoscopia y Cirugia Arthroscopica*, Sringer-Verlag Iberia, pp. 259-269. Barcelona, 1993.

Johnson, L. L.: *Diagnostic and Surgical Arthroscopy of the Shoulder*. St. Louis, C. V. Mosby, 1993.

Johnson, L. L.: *Knee Surgery: Current Practice*. Chapter 14.3, pp. 576-596. Martin Dunitz Ltd., 1992.

Johnson, L. L., McGinty, J. B.: *Operative Arthroscopy: Arthroscopic Abrasion Arthroplasty*. Chapter 24, pp. 341-360. Raven Press, NY, 1991.

Johnson, L. L.: Arthroscopic Surgery: Principles and Practice. St. Louis, C. V. Mosby, 1986.

Detrisac, D. A., Johnson, L. L.: Arthroscopic Shoulder Anatomy. Thorofare, Slack, 1986.

Johnson, L. L.: Clinical Symposia. CIBA Pharmaceutical Company, Vol. 34, No. 3, 1982.

Johnson, L. L.: Arthroscopic Surgery of the Knee and Other Joints. St. Louis, C. V. Mosby, 1981.

Johnson, L. L.: Needlescope. In Symposium on Arthroscopy and Arthrography of the Knee, pp. 36-43. St. Louis, C. V. Mosby, 1978.

Johnson, L. L.: Joints Other than the Knee. In Symposium on Arthroscopy and Arthrography of the Knee, pp. 249-260. St. Louis, C. V. Mosby, 1978.

Johnson, L. L., Becker, R. L.: Role of the Assistant in Arthroscopy. In Symposium on Arthroscopy and Arthrography of the Knee, pp. 274-281. St. Louis, C. V. Mosby, 1978.

Johnson, L. L.: Comprehensive Arthroscopy of the Knee. St. Louis, C. V. Mosby, 1977.

Johnson, L. L.: Arthroscopy of the Shoulder. In Arthroscopy, pp. 49-54. Upjohn, 1977.

Johnson, L. L.: Diagnostic Arthroscopy of the Knee. In The Knee Joint, pp. 131-139. New York, NY, American Elsevier Publishing Co., Inc., 1974.

AUDIOVISUAL PUBLICATIONS

The Arthritic Knee: AAOS publication CD-ROM. July 2000. Arthroscopic Abrasion Arthroplasty.

ELECTRONIC POSTER EXHIBITS

Johnson, LL, Verioti, C, Gelber J, DLima, D Pathology of the Outerbridge IV Lesion. AANA 2009, San Diego, CA

Johnson, LL, Verioti, C, Gelber J, DLima, D Pathology of the Outerbridge IV Lesion. ICRS, May 2009, Miami, FL

SCIENTIFIC EXHIBITS

The pathology of the end-stage osteoarthritic lesion of the knee: Potential role in cartilage repair. ICRS. Barcelona, September 2010

Biomechanical Evaluation of Compaction Drilling Versus Extraction Drilling in Total Hip Arthroplasty. Yu L, Dai Q, Schultz E, Schulz E, Johnson LL. Poster Exhibit Feb 4, 1999. AAOS, Anaheim, CA.

Proximal Tibiofibular Joint as a Potential Autogenous Osteochondral Graft Source: An Anatomic and Histologic Evaluation. Martin, SD, Johnson LL, Martin TL, Hsu HP, Spector M. Poster Exhibit. February 6, 1999. AAOS, Anaheim, CA.

Compaction Drilling; A New Technique for Creating Bone Tunnels. Lanny L. Johnson, M.D., Steven P. Arnoczky, DVM, J. Nemzek. A.A.O.S. Annual Meeting, New Orleans, 1994.

Endoscopic Approach to Autogenous Bone Grafting of Long Bone Nonunion. Lanny Johnson, M.D., Kenneth M. Morrison, M.D.; David L. Wood, M.D. A.A.O.S. Annual Meeting, New Orleans, 1994.

Comparison of Biodegradable Interference Screw Fixation in ACL Patellar Tendon Reconstructive Surgery: A Bench Test, A.A.O.S. Annual Meeting, San Francisco, CA, 1993.

Osteonecrosis of the Knee: Debridement and Arthroscopic Autogenous Bone Grafting A.A.O.S. Annual Meeting, San Francisco, CA, 1993.

Osteochondritis Dissecans: Arthroscopic Compression Screw Fixation, A.A.O.S. 56th Annual Meeting, Las Vegas, NV, 1989.

Arthroscopic Patellar Realignment, A.A.O.S. 54th Annual Meeting, San Francisco, CA, 1987.

Arthroscopic Anatomy of the Shoulder, A.A.O.S. 51st Annual Meeting, Atlanta, GA, 1984.

Patellar Tracking--Active and Passive, A.A.O.S. 51st Annual Meeting, Atlanta, GA, 1984.

Arthroscopic Monitoring of Patellofemoral Alignment, A.A.O.S. 50th Annual Meeting, Anaheim, CA, 1983.

Arthroscopy of the Shoulder, Elbow and Ankle, A.A.O.S. 44th Annual Meeting, Las Vegas, NV, 1977.

Arthroscopy, '76, A.A.O.S. 43rd Annual Meeting, New Orleans, LA, 1976.

The Role of the Assistant in Arthroscopy, A.A.O.S. 42nd Annual Meeting, San Francisco, CA, 1975.

Diagnostic Arthroscopy of the Knee, A.A.O.S. 41st Annual Meeting, Dallas, TX, 1974.

Congenital Pseudoarthrosis of the Femur, A.A.O.S. 40th Annual Meeting, Las Vegas, NV, 1973.

SCIENTIFIC PRESENTATIONS

The Search for a Disease Altering Osteoarthritic Drug. Herodicus Society. Lyon, France. June 5, 2015.

Johnson LL, Delano M, Spector M, Gottschalk A, Pittsley A. Long Term Clinical Assessment following Autogenous Bone Grafting for Large Volume Three Dimensional Osteochondral Defects of the Knee. ICRS, May 2009, Miami, FL

Johnson LL, Delano M, Spector M, Gottschalk A, Pittsley A. The Biological Fate of Autogenous Bone Grafting for Large Volume Osteochondral Defects of the Knee: 13020 years follow-up.

Arthroscopic Debridement for Degenerative Arthritis of the Knee: Perspective from an Evidence Based Practice. International Association for Joint Reconstruction Munich, Germany, October 6, 2006

Clinical Assessment of Autogenous Bone Grafting for Large Volume Osteochondral Defects of the Knee. International Association for Joint Reconstruction Munich, Germany, October 6, 2006

Arthroscopic Debridement for Degenerative Arthritis of the Knee: Perspective from an Evidence Based Practice. AANA National Meeting, Hollywood Florida, May 18, 2005.

The Proximal Tibiofibular Joint as a Potential Autogenous Osteochondral Graft Source: An Anatomic and Histologic Evaluation. Specialty Day, AANA. Feb 1999 Anaheim, CA.

If We Operate for Pain, Why Do We Not Measure Pain? Members Meeting of the American Shoulder Elbow Society. Nov 1998, New York City, NY.

Autogenous Bone Grafting of Large Osteochondral Defects; an Animal Study. Pennsylvania Orthopaedic Society, Orlando, FL. April, 1998

The Effect of Ho:YAG Laser Energy on Joint Volume, Pressure, and Capsular Tissues:

An Animal Experimental Model. American Society of Shoulder and Elbow Surgeons, Closed Meeting, La Quinta, CA. October 1995

Cancellous Bone Compaction: A method of biomechanical enhancement of bone implant Interface. 12th Annual International Symposium New Developments in Total Joint Reconstruction. San Diego, CA. August 1995

Clinical Findings in Asymptomatic Women, Scientific paper, AAOS, Annual Meeting, Orlando, FL., February 1995

The Medical History as a Clinical Assessment, Scientific paper, AAOS, Annual Meeting, Orlando, FL., February 1995

Comparison of Bioabsorbable and Metal Interference Screw in Anterior Cruciate Reconstruction. AANA Annual Meeting, San Francisco, CA. May 1995

Keynote Speaker: Arthroscopic Shoulder Stabilization--A Look Back, A Look Forward. 7th Annual Panther Sports Medicine Symposium, Pittsburgh, PA, April, 1994.

Clinical Evaluation of Knee Problems in Women: A Benchmark.; Manage Care Implications for Arthroscopic Surgery; Rationale for Arthroscopic Management of Shoulder Instability; The Baker's Cyst. A.A.O.S. Continuing Education Course, Phoenix, AZ, April, 1994.

The Popliteal Bursa (Baker's Cyst): Its Arthroscopic Diagnostic Identification and Surgical Accessibility. (By: Lanny L. Johnson, M.D.; G. Eda van Dyk, M.D.; Charlotte A. Johnson, M.D.; Stanley M. Gully; Bellinda M. Bayes. A.A.N.A. Annual Meeting, Orlando, FL, April, 1994.

Endoscopic Approach to Autogenous Bone Grafting of Long Bone Nonunion. (By: Lanny L. Johnson, M.D.; Kenneth M. Morrison, M.D.; David L. Wood, M.D. A.A.N.A. Annual Meeting, Orlando, FL, April, 1994.

Osteonecrotic and Osteochondritic Defects Treated with Autologous Bone Grafting. A.O.A., San Diego, CA, June, 1993.

Endoscopic Approach to Autogenous Bone Grafting of Long Bone Non-Union. Michigan Orthopaedic Society, Traverse City, MI, June, 1993.

Osteochondritis Dissecans Type IV of the Knee: Arthroscopic Bone Grafting of the Defect Using Autologous Bone. A.A.N.A. Annual Meeting, Palm Springs, CA, 1993.

Characteristics and Clinical Significance of the Immediate Post-Arthroscopic Blood Clot Formation in the Knee. A.A.N.A. Annual Meeting, Seattle, WA, 1989.

Osteochondritis of the Knee - Arthroscopic Compression Screw Fixation. A.A.O.S. Annual

Meeting, Las Vegas, NV, 1989. (By: Lanny L. Johnson, M.D.; Gregory Uitvlugt, M.D.; David A. Detrisac, M.D.; Michael D. Austin, D.O.)

Arthroscopic ACL Reconstruction. A.A.N.A. Annual Meeting, Washington, DC, 1988.

The Frozen Shoulder, Arthroscopic Perspective. A.A.N.A. Annual Meeting, Washington, DC, 1988. (By: Gregory Uitvlugt, M.D.; David A. Detrisac, M.D.; Lanny L. Johnson, M.D.; Michael D. Austin, D.O.)

Meniscal Healing: A Pathologic Study. A.A.N.A. Annual Meeting, San Francisco, CA, 1986.

Abrasion Arthroplasty. International Society of the Knee, Gleneagles Hotel, Scotland, 1983.

Abrasion Arthroplasty. A.A.O.S. Annual Meeting, Anaheim, CA, 1983.

Abrasion Arthroplasty. International Society of the Knee, New Orleans, LA, 1981.

Healing of Articular Cartilage: An Arthroscopic View. A.A.O.S. Annual Meeting, Las Vegas, NV, 1981.

Arthroscopic Surgery of the Shoulder. International Arthroscopy Association, North America Chapter, Philadelphia, PA, 1980.

Arthroscopic Meniscectomy: A Technique and Pathophysiological Basis. A.A.O.S. Annual Meeting, Atlanta, GA, 1980.

A Technique of Arthroscopic Surgery. International Arthroscopy Association, North America Chapter, Toronto, Canada, 1979.

The Treatment of Chondromalacia of the Patella by a Transcutaneous Arthroscopic Method Using the Intra-articular Shaver. A.A.O.S. Annual Meeting, San Francisco, CA, 1979.

Restoration of Anteromedial Stability of the Knee Joint: A Surgical Procedure. A.A.O.S. Annual Meeting, Dallas, TX, 1978.

Arthroscopy of the Knee: Local Anesthesia - 400 patients. A.A.O.S. Annual Meeting, New Orleans, LA, 1976.

Correction of Congenital Radioulnar Synostosis: A Ten-Year Follow-up. A.A.O.S. Annual Meeting, Dallas, TX, 1974.

HONORS:

Presidents Award. Arthroscopy Association North America. April 24, 2015

Legacy Award. McClaren Greater Lansing Healthcare Foundation. 2013

Lifetime Achievement Award. Michigan Orthopaedic Society. June 23, 2007.

Honorary Life Time President. International Association for Joint Reconstruction 2006

Royal Oak Michigan Dondero High School Hall of Fame: 1997

Jack Breslin Lifetime Achievement Award, Varsity Athlete Michigan State University: 1993

Community Health Care Service Award, Lansing, MI: 1990

Inventions: granted U.S. Patents:

| | | |
|------------|--|------------|
| 4,203,444 | Surgical Instrument suitable for closed surgery such as of the knee(arthroscopy) | 5/20/1980 |
| 4,252,306 | Device for clamping body parts | 2/24/1981 |
| 4,274,414 | Surgical Instrument (arthroscopic shaver) | 6/23/1981 |
| 4,462,395 | Arthroscopic Ligamentous and Capsular Fixation System | 7/31/1984 |
| Des284,509 | Surgical Staple (metal) | 7/1/1986 |
| 4,779,616 | Surgical Suture snagging method | 10/25/1988 |
| 4,842,578 | Surgical Abrading Instrument(arthroscopy) | 6/27/1989 |
| Des320,081 | Biodegradable Surgical Staple | 9/17/1991 |
| 5,116,337 | Fixation Screw and method for ligament Reconstruction | 5/26/1992 |
| 5,152,763 | Method of bone grafting (bone grafter) | 10/6/92 |
| D340,284 | Biodegradable Surgical staple | 10/12/93 |

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|-----------|--|------------|
| 5,312,438 | Suture anchor and method of use ("tired of tying") | 5/17/1994 |
| 5,334,200 | Suture Knot Making Device and method of use | 8/2/1994 |
| 5,360,391 | Cantilever Shoulder Brace | 11/1/1994 |
| 5,443,468 | Method of Drilling bore in bone using a compaction device | 8/22/1995 |
| 5,485,852 | Pain Tolerance Testing Device | 1/23/1996 |
| 5,496,326 | Fixation Screw and Method for Ligament Reconstruction | 3/5/1996 |
| 5,520,620 | Shoulder Brace | 5/28/1996 |
| 5,522,844 | Suture anchor, suture anchor installation device and method for attaching a suture to a bone | 6/4/1996 |
| 5,549,676 | Biological Replacement Ligament | 8/27/1996 |
| 5,569,303 | Apparatus and Method for attaching an Object to bone | 10/29/1996 |
| 5,571,195 | Prosthesis for an artificial joint having a wear particle collection capability | 11/5/1996 |
| 5,628,766 | Method of using a mini screw to anchor a suture to bone | 5/13/1997 |
| 5,687,742 | Knee extension Device | 11/18/1997 |
| 5,690,678 | Arrangement for anchoring suture to bone | 11/25/1997 |
| 5,782,924 | Fixation Method and Apparatus for Total Joint Prosthesis | 7/21/1998 |
| 5,792,182 | Apparatus for attaching tissue or suture to bone (Turn Key) | 8/11/1998 |
| 5,897,560 | Method and Apparatus for Forming a Central Bore for the Femoral Stem of | 4/27/1999 |

Hip Prosthesis

| | | |
|------------|---|---------------------|
| 5,899,907 | Instrumentation for Proximal Femoral Compaction Broaching | 5/4/1999 |
| 5,928,240 | Apparatus for forming a central bore for the Femoral Stem of a Hip Prosthesis. (with suction) | 7/27/1999 |
| 5,957,836 | Rotatable Retractor | 9/28/1999 |
| 6,030,400 | Articular Cartilage Harvesting Knife | 2/19/2000 |
| 6,120,541 | Apparatus for use in grafting articular cartilage | 9/10/2000 |
| 6,139,583 | Femoral Prosthesis; rotational stem | 10/31/2000 |
| 6,149,654 | Intra-articular drill | 11/21/2000 |
| 6,537,278 | Apparatus for use in grafting articular cartilage | 3/25/2003 |
| 09/593,037 | Apparatus for use in Grafting Articular cartilage | (3/25/2003) |
| 09/684,837 | Arrangement for the fixation of Intra-osseous Fractures | |
| 6,572,655 | Method of securing a prosthesis component to bone; biological screw | (6/3/2003) |
| 09/640,551 | Fixation Device for Fibrous Tissue | |
| 7,572,127 | B2 Operating Room Educational Television [OReduTV] | 08/11/2009 |
| 7,785,582 | Use of synovium and omentum for tissue engineering | 08/31/2010 |
| 7,927,630 | Use of Autologous sediment from the fluid aspirates as vehicles for Drug delivery | 4/19/2011. |
| 7,998,046 | Methods and Devices for Treating Pathological Conditions of the Knee | 08/16/2011 |
| 8,122,550 | Method of treating osteoarthritis using insoles | (February 28, 2012) |
| 8,142,338 | Methods and devices for treating pathological conditions of the human knee | (March 27, 2012) |

- 8,182,806 Synovial villi for use with tissue engineering. May 22, 2012.
- 8, 263,069 Compositions including anthocyanin or anthocyanidins for the prevention or treatment of articular cartilage-associated conditions. September 11, 2012.
- 8,337,784 Use of autologous sediment from fluid aspirates as vehicles for drug delivery December 25, 2012.
- 8,371,047 Wedged insole kit for treatment of arthritis. February 12, 2013.
- 9,486,468: Compositions including anthocyanin or anthocyanidin for the prevention or treatment of articular cartilage-associated conditions. November 8, 2016
- 9,498,413 B2 Antimicrobials and methods of use thereof for wound healing. November 22, 2016.

SPORTS

- US 6,962,357 Mini face blade putter (11/8/3005)
- US 7,628,709 B2 Mini-face Blade Putter (12/8/2009)
- US 7,637,821 B2 Visual and Tactile Confirmation Golf Grip System (12/29/2009)
- US 7,749,098 Vertically curved face putter with multiple horizontal contact facets. (7/6/2010)
- US 7,878,917 Golf club grip alignment using laser alignment device (February 1, 2011)
- US 7,922,602 Vertically curved face putter with multiple horizontal contact facets; onsert (April 11, 2011)
- 7,794,332 Visual and tactile confirmation golf grip and system (9-14-2010)
- 8,062,147 Visual and tactile confirmation golf grip and system (11-22-2011)
- 8,092,317 Visual and tactile confirmation golf grip and system. (10-10-2012)
- 9,011, 279 B2 Throwing Dart (April 21, 2015)
-
- | | | |
|-------------|------------------------|------------|
| D 513,295 | Putter Head (Scapel™) | 12/27/2005 |
| D 521,581 S | Putter Head (Generic™) | 5/23/2006 |

| | | |
|-------------|--|------------|
| D 522,599 S | Putter Head (Physical Therapy™) | 6/6/2006 |
| D 523,916 S | Putter head (Tranquilizer™) | 6/27/2006 |
| D 529,559 S | Putter head body (ProForma a.k.a Rx Pro) | |
| D 532,065 S | Putter head (Mouse) | 11/14/2006 |
| D 517,623 | Putter head (Pro Forma, no semi-circle) | 3/21/2006 |
| D 552,697 | Putter head (Mouse) | 10/9/2007 |
| D 553,207 S | Putter head (Mouse) | 10/16/2007 |
| D 554,718 S | Putter head (Sweetheart) | 11/6/2007 |
| D 581,476 S | Striking Face for a golf putter head | 11/25/2008 |

REGISTERED TRADEMARKS

| | | |
|-----------|---|------------|
| 2,087,967 | OUCH! (expired) | |
| 3,134,161 | Tranquilizer | 8/22/2006 |
| 3,140,057 | Just What the Doctor Ordered | 9/5/2006 |
| 3,155,008 | Alternative Medicine for Putting | 10Oct06 |
| 3,211,952 | Psychomotor Burdens (design logo) | 20Feb07 |
| 3,220,766 | Psychomotor Burdens | 20Mar07 |
| 3,225,826 | Physical Therapy | 3Apr07 |
| 3,240,575 | Placebo | 8May07 |
| 3,263,252 | Dr. Lanny's | 10Jul07 |
| 3,308,871 | There is More to Putting than Meets the Eye | 10/3/07 |
| 3,325,810 | Scalpel | 10/30/2007 |
| 3,357,148 | Sweetheart | 12/18/2007 |
| 3,725,267 | Forgiving Face | 12/15/2009 |
| 3,810,613 | The Sense-Able Golf Grip | 6/29/2010 |

BLOG: www.DrLanny.com

ONGOING RESEARCH

Use of intraarticular cyanidin-3-glucoside and protocatechuric acid for altering the chemistry of a surgically induced osteoarthritic joint in the rabbit. Spring Valley Labs, MD 2014-1015.

Use of oral administered cyanidin-3-glucoside and protocatechuric acid for altering the chemistry of a surgically induced osteoarthritic joint in the rabbit. Spring Valley Labs, MD 2014-2015.

Use of protocatechuic acid to sterilize the human skin prior to surgery. Loma Linda Medical School, Loma Linda, CA. 2015-16.

Testing of the Real Feel Glove on PGA tour. 2016-2017

BUSINESS ACTIVITIES:

Founder of Prescription Putting, LLC November 2004
www.RxPutting.com

Founder of Instrument Makar, Inc. 1978 (surgical instrument company) Sold to Smith + Nephew Endoscopy in January 2002

Founder of Implant Ideas, L.L.C. 1996 (total joint implant company) Sold to Smith + Nephew Endoscopy in January 2002

Founder of Information Health Network, Inc. 1982 (medical software company)

www.KneeProblem.com

www.FreeKneeDx.com

www.Golfersknee.com

www.DrLannysInsoles.com

www.PrescriptionGolf.com

www.GroovedGolfGrips.com

www.RealFeelGloves.com

www.PCAUSA.com

Board of Directors: Opsionmed 2001-2003 (medical software company in San Diego, CA from 2003-2004)

Board of Directors: Northpointe Bank, Grand Rapids, MI (1999-2002)

Consultant: United Orthopedic Company (2008-2009)

Advisory Board: OrthoDirect (2012-present)

Orthopedic Sports Medicine Consultant: (various years)

Michigan State University

Purdue University

Professional Teams:

Chicago Bears

Detroit Tigers

St. Louis Cardinals

Pittsburgh Pirates

Atlanta Braves

Boston Celtics

New York Yankees

Consultant to Medical Industry:

Stryker Biotech, Boston, MA (2004-2006)
Smith and Nephew Endoscopy, Andover, MA (1972 to 2002).
HydroCision, Inc., Andover, MA (1997 to 2004).
Chiron Corporation, Emeryville, CA. (1998 to 2003).
Dispomedic, Damona, Israel (2000 to 2004)
Kinamed, Inc. Camarillo, CA (2002 to 2004)

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