



## Bradley S. Ellison, MD

### Bio

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Dr. Bradley S. Ellison, MD is a board-certified fellowship-trained hip and knee reconstruction specialist. His practice emphasizes hip and knee joint preservation and reconstruction through the use of innovative surgical techniques, including anterior hip replacement, customized total knee replacements, small incision primary hip and knee replacements, hip arthroscopy, hip resurfacing, partial knee replacements, as well as revision hip and knee joint reconstruction. Dr. Ellison and his team place special focus on minimizing perioperative pain, rapid recovery protocols, and optimizing the experience and satisfaction of patients undergoing hip and knee surgery. Dr. Ellison is a native of North Carolina, who worked in private practice in Richmond, Virginia for five years, prior to joining OrthoCarolina and returning home. In his career, he has performed over 2,000 hip and knee surgical procedures. Poised with advanced fellowship training and extensive expertise, he is routinely sought after to evaluate patients with complex problems around the hip and knee, such as persistent pain from injury, developmental and degenerative disorders, as well as previous surgical treatment.

**P: 704.786.5122**

**Patient Rating:**  
4.8 out of 5 Stars

### LOCATIONS

- Concord

### CLINICAL SPECIALTIES

- Knee

### Education

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- **Davidson College** - *Bachelor of Science With Honors*
- **Medical University of South Carolina** - *Masters of Science, Biomedical Sciences*
- **University of North Carolina, School of Medicine** - *Doctor of Medicine*
- **Ohio State University Medical Center** - *Orthopedic Surgery Residency*
- **Washington University** - *Adult Joint Preservation & Reconstruction*

### Practice

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- Board Certified Physician
- Member of the American Association of Hip & Knee Surgeons
- Member of the American Academy of Orthopedic Surgeons

- Member of the American Medical Association
- Member of the Eastern Orthopedic Association
- Member of the Southern Orthopedic Association
- Member of Mid-America Orthopedic Association

## Awards

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- Physician Champion for Orthopaedic Division - Virginia Quality Care Partners - 2014
- Patient Choice Award – 2014 – Recognized as top performing physician from Vitals health care organization
- Clinical Excellence Award. 2012. Virginia Home Health Organization.
- Virginia Medical Leadership Symposium – May 2012: Strategic Health organization developing strategies to Improve Future of American Health Care System.
- Review Board, Journal of Arthroplasty – 2012 to present. Review manuscripts for publication.
- Oxford University Nuffield Orthopedic Centre. Spring 2007. Oxford, England. Two-month Fellowship with Adult Hip and Knee Reconstruction service.
- Current Concepts in Joint Replacement Scholarship. 2007. Awarded to attend Spring Conference in Adult Joint Reconstruction

## Research

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### publications

- *Recovery after Total Hip Replacement.* Our Health Journal, September, 2013. Ellison, B.
- *Is routine mid-term total hip arthroplasty surveillance beneficial?* Keeney JA, Ellison BS, Aloney WJ, Clohisy JC. Clin Orthop Relat Res. 2012 Nov;470(11):3220-6. Poster presentation at AAOS 2013.
- *The Impact of Health Care Reform on Access to Orthopaedic Care.* Bradley S. Ellison. The Health Journal. Jan 2012: 34-35.
- *Comparison of Coronal Alignment following Total Knee Arthroplasty with Conventional or Patient-specific Instrumentation.* Nunley RM, **Ellison BS**, Zhu J, Ruh EL, Howell SM, Barrack RL. Clin Orthop Relat Res. 2012 Mar;470(3):895-902.

- *Comparison of Perioperative Cost-Utility between conventional and patient-specific total knee arthroplasty.* Nunley RM, **Ellison BS**, Zhu J, Ruh EL, Howell SM, Barrack RL. Clin Orthop Relat Res. 2012 Mar;470(3):889-94. Epub 2011 Dec 20.
- *Mid-term Surveillance of Primary and Revision Total Knee Arthroplasty.* Bradley S. Ellison, James Keeney, William Maloney, John C. Clohisy. Manuscript in press with submission to CORR.
- *Minimal Stress Shielding with a Mallory-Head titanium femoral stem with proximal porous coating in total hip arthroplasty.* **Bradley S Ellison**, Nicholas Cheney, Keith R. Berend, Adolph V Lombardi, Jr. and Thomas H Mallory. Journal of Orthopedic Surgery and Research. Dec 9, 2009;4; 43:1-10.
- *Flexion Contracture in Total Knee Arthroplasty.* Bradley S. Ellison, Keith R. Berend, Adolph V. Lombardi. Chapter in Master Techniques in Orthopedic Surgery: Knee Arthroplasty, 3<sup>rd</sup> Edition. June 2008
- *Manufacturing Technique Affects Backside Wear of Total Knee Arthroplasty Modular Tibial Inserts.* Brad Ellison, Adolph V Lombardi, Jr, Keith R. Berend, Thomas H. Mallory. CORR: 466 (11); 2798-2805. Nov 2008. Considered as Finalist for Knee Society Award.
- *Talar Osteosarcoma in an Elderly Woman: A Case Report and Review of Literature.* **Bradley S. Ellison**, Michael Potter, Carl Morrison, Joel Mayerson. Amer J Ortho. April 2008: 37(4):198-203.
- *Complement Susceptibility of Glutamine Deprived Breast Cancer Cells.* **B Ellison**, K Zanin, RJ Boackle. Cell Division. 2007 Jul 11; 2:20.
- *Tapered Titanium Porous Plasma Sprayed Femoral Component in Patients Aged 40 years or Younger.* **Brad Ellison**, Keith R. Berend, Adolph V. Lombardi, Jr., Thomas H. Mallory, J Arthroplasty. 2006 Sep; 21(6S):32-37.
- *Selective Inhibition of I kappa B Kinase 2 (IKK2) Overcomes NF-kB Mediated Chemotherapy Resistance in Human Colon Cancer.* **B. Ellison**, R. Liu, J Adams, P Elliot, A Baldwin, and J Cusack. Society of Surgical Oncology Conference. 2002, Denver, CO.
- *Inhibition of I kappa B Kinases (IKK1 and IKK2) Enhances Chemosensitivity in Human Colon Cancer.* **B. Ellison**, R Liu, A Baldwin, J Cusack American Society of Clinical Oncology Conference. 2001. San Francisco, CA. Poster Presentation for GI Cancer Forum

· *The Purification and Characterization of Glucose-6-Phosphate Dehydrogenase from Chlamydomonas reinhardtii*. **B Ellison** and JH Williamson. Honors Thesis. 1997. Prepared as Chapter in *Basic Enzymology: NADP-dependent Dehydrogenases*. Davidson College Library.

· *The Purification and Characterization of Glucose-6-Phosphate Dehydrogenase from Chlamydomonas reinhardtii*. B Ellison and JH Williamson .1997. National Conference of Undergraduate Research Program.

### presentations

· *Partial Knee Replacement*. International Congress of Joint Replacement – Orthopedic Residents Training Initiative. April 26, 2014. Atlanta, GA.

· *Registry Data and Decision-making in Total Joint Arthroplasty*. International Congress of Joint Replacement – Orthopedic Residents Training Initiative. April 26, 2014. Atlanta, GA.

· *Hip Arthroscopy – Technique and Pearls*. International Congress of Joint Replacement – Orthopedic Residents Training Initiative. April 26, 2014. Atlanta, GA.

· *Thromboembolic disease following Total Joint Replacement*. Gallagher-Basset Surgical and Medical Series. August 21, 2013. Richmond, VA.

· *Sports Hip Injuries*. HCA Orthopaedic Seminar Series for Primary Care Physicians. June 27, 2013. Richmond, VA.

· *Osteoporosis and Metabolic Bone Disease*. Beth Sholom Orthopedic Symposium. June 2, 2013. Richmond, VA.

· *Femoral Stem designs in Total Hip Replacement*. Orthopedic Residency Curriculum – Adult Reconstruction: Medical College of Virginia: March 8, 2013. Richmond, VA.

· *Polyethylene, Wear and Osteolysis*. Orthopedic Residency Curriculum – Adult Reconstruction: Medical College of Virginia: March 8, 2013. Richmond, VA.

· *Hip and Knee Arthroplasty Outcomes and Registries*. ICJR Mid-Atlantic Arthroplasty Meeting. Oct. 6, 2012. Norfolk, VA.

· *Comparison of Coronal Alignment following Total Knee Arthroplasty with Conventional or Patient-specific Instrumentation*. **Bradley S. Ellison**, JinJun Zhu, Qin Zhang, Ryan M. Nunley, Stephen Howell, Robert L Barrack. Mid-America Orthopedic Society. April 7, 2011. Tucson, AZ. AAOS 2012, San

Francisco. Podium presentation.

- *Comparison of Perioperative Cost-Utility between conventional and patient-specific total knee arthroplasty.* **Bradley S. Ellison**, Adrienne Ford, Jason Keeler, Keith Foreman, Ryan M. Nunley, and Robert L. Barrack. April 8, 2011. Tucson, AZ. AAOS 2012, San Francisco. Podium presentation
- *Mid-term Surveillance of Primary and Revision Total Hip Arthroplasty.* **Bradley S. Ellison**, James Keeney, William Maloney, John C. Clohisy. Mid-America Orthopedic Society. April 7, 2011. Tucson, AZ. AAOS 2012, San Francisco. Podium presentation.
- *Treatment Innovations for Knee Arthritis.* Richmond, VA. The Orthopedic Hospital: Henrico Doctor's Hospital. April 21, 2011. Bon Secours Orthopaedic Institute, March 22, 2012.
- *Comparison of Conventional and Patient-specific Instrumentation in Total Knee Arthroplasty.* **Bradley S. Ellison**, JinJun Zhu, Qin Zhang, Adrienne Ford, Jason Keeler, Keith Foreman, Ryan M. Nunley, Stephen Howell, Robert L Barrack. AAOS 2011, San Diego.
- *Hip Impingement & Sports Injuries to the Hip.* Richmond, VA. Tidewater Physical Therapy Lecture Series. Nov 30, 2010. Bon Secours Family Medicine Residency Lecture Series, Jan 5, 2012.
- *Overcoming the Pain of Hip Arthritis.* Richmond, VA. Bon Secours Orthopaedic Institute. Nov. 10, 2010.
- *Comparison of Coronal Alignment following Total Knee Arthroplasty with Conventional or Patient-specific Instrumentation.* **Bradley S. Ellison**, JinJun Zhu, Qin Zhang, Ryan M. Nunley, Stephen Howell, Robert L Barrack. The Knee Society. Rochester, MN. Sept 11-12, 2010.
- *The Adult Hip: Diagnosis & Treatment.* Richmond, VA. Bon Secours Orthopedic Institute Series. July 22, 2010. Primary Care Education Consortium.
- *Patient-specific Total Knee Arthroplasty.* St. Louis Orthopedic Society: March 31, 2010. Podium presentation.
- *Partial Knee Arthroplasty.* Orthopedic Grand Rounds – Washington University Medical Center: Oct. 14, 2009
- *The Impact of Constraint on Polyethylene Wear in Total Knee Arthroplasty.* **Brad Ellison**, Keith Berend, Adolph Lombardi, Thomas Mallory. American

Academy of Orthopedic Surgery - Scientific Exhibit SE35. San Francisco, CA. March 4-9, 2008.

- *The Effects of Manufacturing Technique on Backside Polyethylene Wear in Total Knee Arthroplasty.* Adolph V Lombardi, **Brad Ellison**, Keith Berend. Siena, Italy – International Knee Society Meeting, Podium Presentation. Sept 8, 2007. Also presented at American Academy of Orthopedic Surgery - Poster P193. San Francisco, CA. March 4-9, 2008
- *Long-term Femoral Remodeling with Tapered Titanium Proximal Porous-coated stem.* **Brad Ellison**, Adolph V Lombardi, Jr, Keith R. Berend. Podium presentation for Mallory-Coleman Orthopedic Research Day. April 13, 2007.
- *Limb Salvage Reconstruction for an Infected Revision Total Knee Arthroplasty.* **Brad Ellison**, Adolph V Lombardi, Jr, Keith R. Berend. Joint Arthroplasty Young Investigators Conference. Feb 13, 2007, San Diego, CA.
- *Selective Inhibition of I Kappa B Kinase 2 (IKK2) Overcomes NF- $\kappa$ B mediated Chemotherapy Resistance in Human Colon Cancer.* **B. Ellison**, R. Liu, J Adams, P Elliot, A Baldwin, and J Cusack. Society of Surgical Oncology Conference. 2002, Denver, CO. Plenary Podium session.
- *Inhibition Of I Kappa B Kinases (Ikk1 And Ikk2) To Enhance Chemosensitivity In Human Colon Cancer.* Poster Presentation. **B. Ellison**, R Liu, A Baldwin, J Cusack. American Society of Clinical Oncology Conference. 2001, San Francisco, CA.
- *The Effect Of NF- $\kappa$ B Inhibition On Chemosensitivity In Colon Cancer.* **B. Ellison** and J. Cusack. Holderness Fellowship Banquet. 2000, UNC - School of Medicine, Chapel Hill, NC.
- *The Cytokinetic Influence On Expression Of Membrane-Bound Complement Inhibitors In Human Breast Cancer.* **B. Ellison** and RJ Boackle. Masters Thesis Defense. 1999, Medical University of South Carolina, Charleston, SC.
- *Complement Regulators: Potential Strategies For Immune Evasion Of Tumors.* **B. Ellison** and RJ Boackle. Microbiology and Immunology Seminar Series. March, 1998. MUSC.
- *Purification And Characterization Of Glucose-6-Phosphate Dehydrogenase From Chlamydomonas Reinhardtii.* **B. Ellison** and JH Williamson. National Conference for Undergraduate Research. April, 1997. University of Texas, Austin, TX. Also presented at North Carolina Academy of Science. 1997,

Durham, NC. April, 1997. Awarded First Place for Division of Biochemistry and Physiology.