

Brian A. Cole, M.D.

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ORTHOPEDIC SPINE SURGEON

Over 24 years experience in Orthopedic Spine Surgery specializing in Minimally Invasive Surgery, Lumbar Disc Surgery, Cervical Disc Surgery, Spinal Fusion, Disc Replacement Surgery and Endoscopic Spine Surgery. Voted one of New Jersey's Top Doctors in 2017, 2018, and 2019. Appeared with Dan Rather of CBS to discuss Kyphoplasty and Max Gomez of NBC to discuss Nucleoplasty. Managing Partner for Englewood Orthopedics, LLC. Currently serving as the Associative Director of the Spine Surgery Service at Englewood Hospital and Medical Center. A consultant for Atlas Spine and contributed to the development of the True Position XL pivoting spacing system and the HiJak cervical spinal implant. Other professional interests include the development of minimally invasive endoscopic robotic tools to transform medicine. Serving as Vice President of C2 Robotics Inc.

EDUCATION

UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE, Philadelphia, PA
Doctor of Medicine, 1989

COLUMBIA COLLEGE, COLUMBIA UNIVERSITY, New York, NY
B.A. in Computer Science, May, 1983

BOARD CERTIFICATION

AMERICAN BOARD OF ORTHOPEDIC SURGERY – JULY 16, 1998:
Recertification (1/1/2009-12/31/2018, 1/1/2018 – 12/31/2028)

MEDICAL LICENSURE

NEW JERSEY – MA62668 -1995
NEW YORK – 188231 -1992
PENNSYLVANIA – 045974 -1992 (Inactive)
FLORIDA – ME137412 -2018

SUMMARY OF PROFESSIONAL EXPERIENCE AND ACCOMPLISHMENTS

ENGLEWOOD ORTHOPEDIC ASSOCIATES, LLC:
Managing Partner (2008-2014, 9/2018-Present)
Partner (1995-Present)

Contributions to Englewood Orthopedic Associates:
Manage Partner for a multimillion-dollar orthopedic surgery practice with 9 doctors, 3 PAs, and 70 employees.

C2 ROBOTICS INC.:
Vice President (10/2017-Present)

Contributions to Surgical Robotics Development:

Vice President of a startup company developing robotic endoscopic surgical tools to accomplish minimally invasive lumbar decompressions through a transforaminal approach. This aids in patient safety by allowing better visualization and less destruction of tissue to allow for quicker recovery.

PROFESSIONAL TRAINING

**TEMPLE UNIVERSITY HOSPITAL/
SHRINERS HOSPITAL FOR CRIPPLED CHILDREN, Philadelphia PA:**
Fellow of Adult and Pediatric Spinal Surgery (August 1994-July 1995)

ST. VINCENT'S HOSPITAL / NEW YORK MEDICAL COLLEGE, New York NY:
Department of Orthopedic Surgery
Resident (July 1989-June 1993)
Chief Resident (July 1993-June 1994)

APPOINTMENTS

ENGLEWOOD HOSPITAL AND MEDICAL CENTER, Englewood NJ:
Associate Director, Spine Surgery Service (2015-Present)

TEMPLE UNIVERSITY HOSPITAL, School of Medicine, Philadelphia, PA:
Clinical Instructor of Orthopedic Surgery (August 1994- July 1995)

PUBLICATIONS

“Design of Compliant 3D Printed Surgical End-Effectors for Robotic Lumbar Discectomy Procedures.” Johnson, B.V.; Cole, B.A., MD; Cappelleri D.J. *The Journal of Mechanisms and Robotics* **2019**
Manuscript Accepted (<https://mechanismsrobotics.asmedigitalcollection.asme.org/article.aspx?articleid=2722698>)

“Novel, Low-cost Robotic Surgical End-effectors for Lumbar Discectomy Procedures.” Johnson, B.V.; Cole B.A., MD; Cappelleri, D.J. *The Journal of Mechanisms and Robotics*
Submitted for publication

“Comparison of Thoracoscopic and Open Thoracic Discectomy in a Live Ovine Model for Anterior Spinal Fusion.” Huntington, C.F., MD; William, M.D., MD; Betz, R.R., MD; Cole, B.A., MD; Clements III, D.H., MD; Balsara, R.K., MD. *Spine* **1998**, 23: 1699-1702.

“Prevalence of Segmental. (Wire Breakage Using Cotrel-Dubousset Instrumentation in the Management Of Idiopathic Scoliosis.” Ward, M., MD; Betz, R.R,MD; Clements III, D.H., MD; Cole, B.A., MD. *Spine* **1997**, 22: 406-407

PRESENTATIONS

“The Natural History of Idiopathic Scoliosis in Leg Length Inequality: A retrospective study.”

Advisor: Dr. Randal Betz

Presentation at AAOS 61st Annual Meeting, February, 1994; American Orthopedic Association 27th Annual Residents’ Conference, Atlanta, GA, March, 1994; Spinal Science Advancement Foundation Spine Fellows Symposium, November, 1994.

“Assessment of Nutritional Status as Predictor of postoperative outcome in patients who have been treated for hip and femur fractures.”

Advisor: Dr. Ronald Selby

Poster Exhibition at AAOS 61st Annual Meeting, February, 1994.

Presentation at American Orthopedic Association 27th Annual Residents’ Conference, Atlanta, GA, March, 1994.

“Infection after Anterior Cruciate Ligament Reconstruction: A Report of the International ACL Study Group.”

Advisor: Dr. Mark Sherman

Submitted for presentation at the American Orthopedic Society for Sports Medicine’s Annual Meeting, April 1992.

“A Retrospective Analysis of Orthopedic Disorders in HIV Infected Patients.”

Advisor: Dr. Edward Ayelrod

Presentation; American Orthopedic Association 25th Annual Residents’ Conference, Ann Arbor, MI , March 1992

RESEARCH

“Surgical Arthroscopy of the Knee Performed with Local Anesthesia: A report of 500 procedures.”

Advisor: Dr. Joseph Torg, April 1988

“Arthroscopic Resection of Glenoid Labral Tears in Athletes.”

Advisor: Dr. Joseph Torg, April 1988

“The Design and Implementation of Computer Database Software to store and analyze Post-Operative Clinical Data of patients with Implanted cementless femoral prosthesis.”

Advisor: Dr. John Cuckler, July 1987

AWARDS

NJ Top Docs 2017, 2018, and 2019 for Orthopedic Spine Surgery

ACTIVITIES AND PROFESSIONAL ORGANIZATIONS

- North American Spine Society
- American Academy of Orthopedic Surgeons
- Bergen County Medical Society