

Curriculum Vitae

David A. Bomback, M.D., F.A.A.O.S.

MEDICAL TRAINING

- Fellowship* Hospital for Special Surgery
New York, NY
Spine/Scoliosis Fellowship
August 2004 – July 2005
- Residency* Department of Orthopaedics and Rehabilitation
Yale University School of Medicine, Yale New Haven Hospital
New Haven, CT
Chief Resident Orthopaedic Surgery
2000-2004
- Internship* Department of Surgery
Yale University School of Medicine, Yale New Haven Hospital
New Haven, CT
PGY-1 General Surgery
1999-2000

EDUCATION

- Medical* Columbia College of Physicians and Surgeons
Columbia University, New York, NY
M.D. 1999
- Undergraduate* Columbia College
Columbia University, New York, NY
B.A. Biological Sciences 1995

LICENSURE AND CERTIFICATION

- Connecticut State Medical License, 2005 - present
- Board Certified: American Board of Orthopaedic Surgery, 2007
Recertified 2015
- New York State Medical License, 2004

HOSPITAL AFFILIATIONS

- Danbury Hospital, Danbury, Connecticut, Attending Physician, 2005 - present

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PRIVATE PRACTICE

Connecticut Neck & Back Specialists, LLC
39 Hospital Avenue, Danbury CT
2005 – Present

Second Opinion Spine (SOS), LLC
39 Hospital Avenue, Danbury CT
Online consultation service for expert second opinions on spinal surgery.
2012 - Present

PROFESSIONAL AFFILIATIONS

Alpha Omega Alpha Society
American Academy of Orthopaedic Surgeons
Connecticut State Medical Society
Danbury Hospital Department of Surgery
Danbury Hospital Department of Pediatrics
Fairfield County Medical Association
North American Spine Society
The Spine Center at Danbury Hospital
Yale Orthopaedic Association

BOARD EXPERIENCE

Co-Management, Orthopedic Board of Directors, Western Connecticut Health Network,
2012 to 2016

LEADERSHIP ROLES/LEADERSHIP TRAINING

Medical Director, Western Connecticut Health Network; Orthopedic and Neurosurgical Unit
2010 - Present

Professional Peer Evaluation Committee, Western Connecticut Health Network;
Sole Representative from Department of Surgery, 2011 to Present

Co-Management, Orthopedic Steering Committee, Western Connecticut Health Network, 2011-
2012

Physician Leadership Workshop, Western Connecticut Health Network, 2010 to 2011

Western Connecticut Health Network Medical Staff Selection Committee, 2012 to present

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HONORS AND AWARDS

America's Best Physicians; 2017

Castle Connolly Medical, Ltd. Award, America's Top Doctors; 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017

Connecticut Magazine Top Doctors; 2011, 2012, 2013, 2014, 2015, 2016, 2017

Doctor's Choice Award; 2017

Greenwich Magazine and Fairfield Living Top Doctors; 2016, 2017

Marquis Who's Who; 2017

Metro Area Top Docs; 2013, 2014, 2015, 2016, 2017

The Patients' Choice Award; 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017

Consumers' Research Council of America Award for America's Top Orthopedists; 2010

O. Donald Chrisman Award Yale graduating Chief Resident for most outstanding thesis presentation and excellence in research; June, 2004.

Wayne O. Southwick Orthopaedic Surgery Award Yale graduating Chief Resident who exemplifies the qualities and characteristics of Dr. Southwick (former Chairman of Orthopaedics, Yale New Haven Hospital); June, 2004.

Orthopaedic Research and Education Foundation New York Metropolitan Area Resident Research Symposium 3rd Place Award Recipient; May 9, 2003

Alpha Omega Alpha, Columbia College of Physicians and Surgeons, 1999

Rosamond Kane Cummins '52 Award Graduate entering orthopaedics with academic excellence, sensitivity, kindness, devotion to patients and the fine human qualities that he exemplified. Columbia College of Physicians and Surgeons, 1999

Robert G. Bertsch Prize: Emulating Dr. Bertsch's ideals of the humane surgeon. Columbia College of Physicians and Surgeons, 1999

Herbert J. Bartelstone Award: Exceptional accomplishments in pharmacology
Columbia College of Physicians and Surgeons, 1999

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Doctor Harry S. Altman Award: Outstanding achievement in pediatric ambulatory care,
Columbia College of Physicians and Surgeons, 1999

Cum Laude, Columbia College, 1995

I.I. Rabi Scholar (Science and Mathematics), Columbia College, 1991-1995

ADVANCED SPECIALTY TRAINING/CERTIFICATION

Cervical Disk Replacement Surgery
Lumbar Disk Replacement Surgery
Minimally Invasive Sacroiliac Joint Fusion (SI-Lok) Surgery
Interspinous Process Decompression (X-STOP) Surgery
Minimally Invasive XLIF Surgery

PRESENTATIONS

“Pediatric Scoliosis”, Danbury Hospital Interdisciplinary Spine Conference, February, 2011.

“Management of Dural Tears”, Stryker Orthopaedic Board Review Course, Las Vegas, NV,
June, 2008

“Evaluation and Treatment of Scoliosis Patients”, Connecticut Academy of Physician Assistants
Annual Charter Oak Conference, March, 2008

“Use of X-Stop Device In Treatment of Lumbar Spinal Stenosis”, Danbury, CT 2008

“Current Concepts in Rehabilitation: Lumbar Spinal Stenosis”, Bethel Health Care Center;
October, 2007.

“Adult Scoliosis”, Yale University Dept. of Orthopaedics Grand Rounds; January, 2007.

“Advances in the Treatment of Spinal Deformities”, Danbury Hospital Orthopaedic Forum;
February, 2007.

“X-Stop Surgery”, Danbury Medical Town Meeting; December, 2006.

“Evaluation of Back Pain in Children and Adolescents”, Danbury Hospital Pediatric Nursing
Symposium; September, 2006.

“Lumbar Spinal Stenosis: Evaluation and Management”, Danbury Hospital Dept. of Medicine
Grand Rounds; May, 2006.

“Adult Degenerative Scoliosis” Danbury Hospital Dept. of Surgery Grand Rounds; March 2006.

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- “Adolescent Idiopathic Scoliosis”, Danbury Hospital Dept. of Pediatrics Grand Rounds; May 2006.
- “Video-Assisted Thoracoscopic Surgery Compared With Thoracotomy: Early And Late Follow-Up Of Radiographic And Functional Outcome”, 40th Annual Scoliosis Research Society Meeting, Miami, FL, October 2005
- “Video-Assisted Thoracoscopic Surgery Compared With Thoracotomy: Early And Late Follow-Up Of Radiographic And Functional Outcome”, International Meeting of Advanced Spine Techniques, July 2005; Banff, Alberta, Canada
- “Rheumatoid Arthritis of the Cervical Spine”, Hospital For Special Surgery Spine Conference, New York, NY, 2004.
- “The Spine: History and Physical Exam”, Hospital For Special Surgery Spine Conference, New York, NY, 2004.
- “Posterolateral Lumbar Fusions In Athymic Rats: Characterization Of A Model”,
Podium presentation: World Spine II, Chicago, IL, August, 2003
Poster presentations: International Society For The Study Of The Lumbar Spine, Vancouver, Canada May 2003;
Orthopaedic Trauma Association, Salt Lake City, Utah, October 2003.
- “Comparison of OP-1 Versus Grafton In An Athymic Rat Posterolateral Spine Fusion Model”,
Southern Orthopaedic Association’s Annual Meeting, Washington, D.C., Nov., 2002;
World Spine II, Chicago, IL, August, 2003;
North American Spine Society, San Diego, CA, October, 2003.
- “Kyphoplasty”, Orthopaedic Grand Rounds, Yale University School of Medicine, New Haven, CT, 2003.
- “State Of The Art: BMPs And Other Biologics For Spinal Fusion.” Controversies In Lumbar Spine Surgery Symposium II (DePuy AcroMed Sponsored), Las Vegas, NV, April, 2003.
- “Osteoinductive Technologies: Are All Created Equal?” Emerging Technologies in Spinal Surgery Conference (DePuy AcroMed Sponsored), Washington, DC, October, 2002.
- “Capitolunate Arthrodesis: A Percutaneous Technique Without Bone Graft”,
Poster presentation: American Society For Surgery Of The Hand National Meeting, Phoenix, AZ, 2002.
- “Thoracolumbar Spine Trauma”, Orthopaedic Resident Conference, Yale University School of Medicine, New Haven, CT, 2002.

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“Congenital Spine Deformities”, Orthopaedic Resident Conference,
Yale University School of Medicine, New Haven, CT, 2001.

“Articular Cartilage: To Repair or Not Repair”, Orthopaedic Grand Rounds
Yale University School of Medicine, New Haven, CT, 2001.

“Evaluation of Back Pain in Children”, Orthopaedic Resident Conference
Yale University School of Medicine, New Haven, CT, 2000.

“Cervical Spondylosis”, Orthopaedic Resident Conference
Yale University School of Medicine, New Haven, CT, 2000.

PUBLICATIONS

Cunningham DE, Bomback DA, Boachie-Adjei O. Revision Deformity Surgery.
Surgical Management of Spinal Deformities. pp. 399-417, 2009.

Bomback DA, Cunningham M, Boachie-Adjei O. Revision Deformity Surgery. Accepted for
publication in *Essential Concepts of Spinal Deformity Surgery*, 2008.

Bomback DA, Charles G, Widmann R, Boachie-Adjei O. Video-Assisted Thoracoscopic
Surgery
Compared With Thoracotomy: Early and Late Follow-Up of Radiographic and
Functional Outcome. *The Spine Journal*, Vol. 7, Issue 4, Pages 399-405. July, 2007.

Farmer JC, Bomback DA, Sculco TP. Neck pain. *Hospital for Special Surgery: Manual
of Rheumatology And Outpatient Orthopaedic Disorders, Diagnosis and Therapy*.
5th Edition, pp. 139-144, 2006.

Pappou I, Bomback DA, Girardi FP. Destructive Spondyloarthropathy of the Cervical Spine and
an Amyloid Mass Causing Myelopathy In A Patient On Chronic Hemodialysis With
Diffuse Beta-2 Amyloidosis. Manuscript submitted to *European Spine Journal*, 2005.

Bomback DA, Grauer J. Bone Morphogenetic Proteins: Spinal Fusion Applications. *Principles
of Molecular Neurosurgery*, Vol. 18, pp.52-64. Karger, Basel, Switzerland, 2005.

Bomback DA, Grauer J, Lugo R, Troiano N, Patel T, Friedlaender GE. Comparison of
Posterolateral Lumbar Fusion Rates Of Grafton Putty and OP-1 In An Athymic Rat
Model. *Spine*, 29:15, 1612- 1617, 2004.

Grauer J, Bomback DA, Lugo R, Troiano N, Patel T, Friedlaender GE. Posterolateral
Lumbar Fusions In Athymic Rats: Characterization Of A Model. *The Spine Journal*,
4: 281-286, 2004.

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Holmes S, Bomback DA, Baumgaertner MR. Coronal Fractures Of The Femoral Condyle: A Brief Report Of Five Cases. *Journal Of Orthopaedic Trauma*, 18(5): 316-319, 2004.

Slade JF III, Bomback DA. Limited Incision Capitulum Arthrodesis For Radioscaphoid Arthritis. *Atlas of the Hand Clinics*, April, 2003.

Slade JF III, Bomback DA. Capitulum Arthrodesis: A Percutaneous Technique Without Bone Graft. Presented at American Society for Surgery of the Hand, Wrist Arthroscopy Course, Mayo Clinic, Rochester, MN, May 10-12, 2002.

Bomback DA, Zikria BA, Freeman HM. Visceral Plural Lung Graft For Myocardial Injury: Case report. *The Journal of Trauma, Injury, Infection, and Critical Care*, 48:1, 149-151, 2000.

Bomback DA. Intussusception: Current Concepts. *Emergency and Office Pediatrics*, 11:4, 133-135, 1998.

RESEARCH

Iliac Screw Fixation: 2 year Outcome Study. (2005, Ongoing). We are currently evaluating the long term outcome of pelvic fixation using a Galveston iliac screw technique. Specific factors being analyzed are hardware prominence, hardware removal, sacroiliac joint dysfunction, and hip pathology.

Video-Assisted Thoracoscopic Surgery Compared With Thoracotomy: Short And Long Term Follow-Up Of Radiographic And Functional Outcome. (8/04 – 10/05). Comparing VATS vs. open thoracotomy with respect to percent curve correction, fusion rate, and functional outcome scores (SRS-22 and ODI). The VATS group (mean age, 30) averaged 5.4 anterior levels and 11 posterior levels fused. The thoracotomy group (mean age, 32) averaged 5.8 anterior levels and 12 posterior levels fused. Estimated blood loss was nearly identical for the posterior procedures in both groups, whereas the anterior blood loss was significantly higher in the thoracotomy group as compared with the VATS group (541 cc vs. 288 cc). Operative time did not differ significantly between the two cohorts. Percent curve correction immediately postoperative (52% correction VATS; 51% correction thoracotomy) as well as at the 2-year follow-up (50% VATS and 54% thoracotomy) was nearly identical. There was no difference in postoperative ODI (p=.6) or SRS scores (p=.5) between groups. Complications were frequent but not significantly different between the two groups (p=.3).

OP-1 vs. Demineralized Bone Matrix In An Athymic Rat Posterolateral Spine Fusion Model. (12/01-6/04) We hypothesize that the osteoinductive ability of osteogenic protein-1 (also known as BMP-7) exceeds that of extracted demineralized bone matrix products in posterolateral spinal applications. To prove this theory, we performed 120 posterolateral spine fusions on rats comparing fusion rates among four groups: no graft, autograft, DBM (Grafton putty), and OP-1. Rats were sacrificed at 3 and 6 weeks. Fusion was assessed by radiographic criteria, manual

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palpation, and histology. This is the first study directly comparing a DBM product to a BMP product in a spine fusion model.

Posterolateral Lumbar Fusions In Athymic Rats: Characterizing A Model. (12/01 – 6/04)

An athymic rat model for posterolateral lumbar fusion has been previously introduced to study the effectiveness of different osteoinductive bone graft supplements or alternatives, but this model had not previously been fully characterized. Posterolateral spine fusions were performed on 60 rats among three groups: 20 athymic rats receiving no graft, 20 athymic rats receiving autograft, and 20 normothymic rats receiving autograft. Autograft fusion rates in athymic rats were found to be similar to normothymic rats, and no spontaneous fusions were noted when no graft was placed. This work supports utility of the athymic rat as a model for preclinical studies of bone graft alternatives, particularly for studying potentially immunogenic substances.