



Sharat K. Kusuma, MD, MBA
Curriculum Vitae

Sharat Kumar Kusuma, M.D., M.B.A.
Curriculum Vitae - 12/2012

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Office Address:

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340 East Town Street, Suite 7-250
Columbus, OH 43215
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Education: 8/93-5/97 B.A. Vanderbilt University (Chemistry, Economics) – *Summa Cum Laude*
6/95-8/95 University of London – International Studies in London Program
8/97-5/02 M.D. Vanderbilt University School of Medicine
8/00-5/02 M.B.A. Vanderbilt University, Owen Graduate School of Management
(Vanderbilt University, Combined MD/MBA Dual Degree Program)

Postgraduate Training:

6/02-6/03 Intern in General Surgery, University of Pennsylvania Health System
6/03-7/07 Resident, Department of Orthopaedic Surgery, University of Pennsylvania Health System
7/07-10/08 Fellow, Arthroplasty/Adult Joint Reconstruction, Midwest Orthopaedics at Rush/Rush University Medical Center
1/09-4/09 Fellow, Hip Reconstruction Surgery, Queens Medical Centre, Nottingham, United Kingdom

Faculty Appointments and Clinical Positions:

6/03-7/07 Clinical Instructor, Department of Orthopaedic Surgery,
University of Pennsylvania, School of Medicine
7/07-9/08 Clinical Instructor, Department of Orthopaedic Surgery, Rush University Medical Center
5/09-present Attending Adult Reconstruction Surgeon, Grant Medical Center
5/09-present Associate Director/Director of Research, Grant Medical Center/MIO

Licensure:

7/11-present Certification – American Board of Orthopaedic Surgery
6/02-6/08 Medical Physician and Surgeon, Pennsylvania
4/07-present Physician and Surgeon, Illinois
6/08-present Physician and Surgeon, Georgia
6/08-present Physician and Surgeon, Alabama
4/09-present Physician and Surgeon, Ohio

Awards, Honors, and Membership in Honorary Societies:

1993 Valedictorian – Westover High School, Albany, Georgia
1993 Harold Stirling Vanderbilt Scholarship - Vanderbilt University
1993 Chancellor Joseph B. Wyatt Scholarship - Vanderbilt University
1995 Chancellor Alexander Heard Outstanding Fraternity Junior Award - Vanderbilt University
1997 Outstanding Undergraduate Chemistry Researcher Award - Vanderbilt University
1997 Phi Beta Kappa - Vanderbilt University (Class Rank 12/794)
1997 Phi Eta Sigma, Alpha Lambda Delta, Gamma Beta Phi - Vanderbilt University
2002 Beta Gamma Sigma National Business Administration Honorary (Class Rank Top 5%)
2005 Who's Who Among Executives and Professionals
2005 Pennsylvania Orthopaedic Society Outstanding Resident Research Paper Award
2006 Jacquelin R. Perry Award – Most Outstanding Paper – Orthopaedic Rehabilitation Association
2006 Orthopaedic Research and Education Foundation/Orthopaedics Overseas Traveling Fellowship
2006 Leonard Marmor Surgical Arthritis Foundation Award for Excellence in Adult Reconstruction
2006 Eastern Orthopaedic Association Founders Research Award
2007 Current Concepts Foundation Scholarship
2011 Medtronic Advanced Energy Surgeon of the Year Award
2012 Hip Society British Traveling Fellowship Award
2012 International Congress for Joint Replacement Outstanding Abstract Award

Membership in Professional and Societies:

- 2006-present Health Volunteers Overseas/Orthopaedics Overseas
- 2004-present American Association of Hip and Knee Surgeons
- 2003-present American Academy of Orthopaedic Surgeons
(AAOS Washington Health Policy Fellow, 2003-2004)
(Member, Academic Advocacy Committee, Healthcare Delivery Committee, 2003-2004)
- 2003-present Pennsylvania Medical Society
(At-large member, Governing Council, Residents and Fellows Section, 2003-2004)
- 2003-present Pennsylvania Orthopaedic Society
- 2003-present Philadelphia Orthopaedic Society

Academic Committees:

- 2009 International Society for Technology in Arthroplasty -- Abstract Review Committee
- 2000-2002 Curriculum Committee, Vanderbilt University School of Medicine
(Designed and initiated Vanderbilt University Combined MD/MBA Program)

Lectures by Invitation:

- 4-20-1998 "The Secondary Motor Area Syndrome." Vanderbilt University School of Medicine Annual Student Biomedical Research Symposium, Nashville, Tennessee
- 8-10-1998 "Influence of Connective Tissue Growth Factor on Wound Healing in a Rabbit Model." Annual Diabetes and Endocrinology Research Symposium -- Vanderbilt University School of Medicine, Nashville, Tennessee
- 11-9-1999 "Brainstem Vascular Compression Syndromes." -- Lecture to Second Year Neuroanatomy Class, Vanderbilt University School of Medicine, Nashville, Tennessee
- 9-27-2004 "Unicondylar Knee Arthroplasty." -- Adult Reconstruction Conference University of Pennsylvania, Department of Orthopaedic Surgery, Philadelphia, Pennsylvania
- 2-24-2005 "Fewer Hours, Better Patient Care? Responding to the New Limitations on Resident Work Hours." -- AAOS Annual Meeting, Symposium Q, Washington, D.C.
- 5-25-2006 "Lateral Retinacular Release During Primary Total Knee Arthroplasty." - University of Pennsylvania School of Medicine, Department of Orthopaedic Surgery Research Symposium, Philadelphia, Pennsylvania
- 4-9-2010 "The Current State of the Art in Total Joint Arthroplasty and the Care of the Arthritic Patient." 12th Annual OhioHealth Orthopedic Nurses Education Day, Columbus, Ohio.
- 11-6-2010 "Update on Hip and Knee Reconstruction for the Primary Care Physician." Rheumatology Update for the Primary Care Physician Continuing Medical Education Program, Columbus, Ohio.
- 6-17-2010 "Tourniquetless Knee Surgery." Advances in Total Knee Arthroplasty Meeting, Salient Surgical Technologies, Rush University Medical Center, Chicago, Illinois.
- 9-11-2011 "Elimination of the Learning Curve for Component Positioning in Surface Replacement Arthroplasty Utilizing a Plain Radiograph PACS Based Templating Method." 2011 British Hip Society Traveling Fellows Symposium, Columbus, Ohio.
- 10-16-2011 "What is the Role of Serological Testing Between Stages of Two-Stage Reconstruction of the Infected Prosthetic Knee?" 2011 John Insall Knee Society Traveling Fellows Symposium, Columbus, Ohio.
- 2-10-2012 "Total Knee Arthroplasty After Knee Fracture." 2012 OhioHealth/Grant Medical Center Trauma and Limb Reconstruction Symposium, Columbus, Ohio.
- 3-9-2012 "Treatment of Hip Arthritis in the Young Patient." 2012 Grant Medical Center Birmingham Hip Resurfacing Symposium, Columbus, Ohio.

- 5-11-12 "Hip Resurfacing Arthroplasty." 2012 RLO Mastering Total Joint Replacement, Charleston, South Carolina.
- 5-11-12 "Posterior Approach to Hip Arthroplasty." 2012 RLO Mastering Total Joint Replacement, Charleston, South Carolina.
- 5-11-12 "Tourniquetless Knee Arthroplasty." 2012 RLO Mastering Total Joint Replacement, Charleston, South Carolina.

Organizing Roles in Scientific Meetings:

- 4-12-2001 Annual School of Medicine Healthcare Economics Lecture, Vanderbilt University School of Medicine, Nashville, Tennessee
- 4-30-2004 National Orthopaedic Leadership Conference, co-organizer, symposium: "Future of Single Specialty Hospitals and Ambulatory Surgical Centers." – Washington, D.C.

Abstracts:

Kusuma SK, Farrar JM, Douglass AG, Kaszynski PA. "Systematic study of structure-property relationships in discotic mesogens." European Conference on Liquid Crystals, Zakopane, Poland, 1997.

Kaszynski P, Yin H, Farrar JM, **Kusuma SK**, Huang J. "Liquid crystalline radical." Materials Research Society, Boston, Massachusetts, 1997.

Farrar JM, Yin H, **Kusuma SK**, Kaszynski PA. "Molecular magnetism: the liquid crystal approach." 214th National American Chemical Society Meeting, Las Vegas, Nevada; September 7-11, 1997.

Farrar JM, **Kusuma SK**, Kaszynski P. "A systematic study of structure-property relationships in discotic mesogens containing polycyclic cores." 215th National American Chemical Society Meeting, Dallas, Texas, 1998.

Rohmiller MT, **Kusuma S**, Blanchard GM, Edwards JR, McAndrew MP, Sciadini MF, Johnson KD. "Management of open fractures of the lower extremity: do timing of operative treatment and primary wound closure really matter?" Orthopaedic Trauma Association Annual Meeting, Toronto, Canada, 2002.

Wieser ES, **Kusuma S**, Parekh D, Trussler L, Mencio GA. "Myelomeningocele kyphectomy: review of the effects of cordotomy on bladder function." Scoliosis Research Society Annual Meeting, Seattle, Washington, 2002.

Auerbach JD, **Kusuma SK**, Hosalkar HS, Wills BP, Chin KR, Dormans JP, Drummond DS. "Cervical spinal stenosis measurements in children with Klippel-Feil syndrome compared with age-matched controls." Scoliosis Research Society Annual Meeting, Miami, Florida, 2005.

Kusuma SK, Puri N, Lotke PA. "Lateral retinacular release during primary total knee arthroplasty: effects on outcomes and complications." OREF New York Metropolitan Area Resident Research Symposium, New York, New York, 2005.

Kusuma SK, Puri N, Lotke PA. "Lateral retinacular release during primary total knee arthroplasty: effects on outcomes and complications." Smith and Nephew 20th Annual Resident Research Competition, Memphis, Tennessee, 2005.

Kusuma SK, Puri N, Lotke PA. "Lateral retinacular release during primary total knee arthroplasty: effects on outcomes and complications." Pennsylvania Orthopaedic Society 2005 Fall Scientific Meeting, First Place Award Paper, Resident Research Competition, Pittsburgh Pennsylvania, 2005.

Reddy S, **Kusuma SK**, Keenan MA. "Cost-effectiveness analysis of split anterior tibialis tendon transfer for treatment of equinovarus deformity." 2006 Orthopaedic Rehabilitation Association/AAOS Specialty Day, Jacquelin Perry Award Paper, Chicago, Illinois, 2006.

Auerbach JD, **Kusuma SK**, Hosalkar HS, Wills BP, Chin KR, Dormans JP, Drummond DS. "Cervical spinal stenosis measurements in children with Klippel-Feil syndrome compared with age-matched controls." American Academy of Orthopaedic Surgeons Annual Meeting, San Diego, California, 2007.

Kusuma SK, Della Valle CD, Sporer S, Ward J, Jacofsky M. "Trends of perioperative serologies in two-stage treatment of septic total knee arthroplasty." American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, Nevada, 2009.

Berger RA, **Kusuma SK**, Sporer SS, Sanders S. "The feasibility and perioperative complications of outpatient knee arthroplasty." American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, Nevada, 2009.

Kusuma SK, Della Valle CD, Sporer S, Ward J, Jacofsky M. "Trends of perioperative serologies in two-stage treatment of septic total knee arthroplasty." American Association of Hip and Knee Surgeons Annual Meeting, Dallas, Texas, 2009.

Parratte S, **Kusuma SK**, Ollivier M, Bouler JM, Argenson JN. "Cavitary bone void filling using an injectable and Resorbable bone substitute: results of a monocentric study including 20 cases with minimum one year follow-up" SICOT 2011 XXV Triennial World Congress, Prague, Czech Republic, 2011.

Hansen DC, Palmer RM, Botkin K, Wasielewski RC, **Kusuma SK**. "Comparison of Outcomes of Robotic and Manually Implanted Unicompartmental Knee Arthroplasty." International Congress for Joint Reconstruction, 13th Annual Insall Scott Kelly Institute Sports Medicine, Total Knee and Hip Course. New York, USA, 2012.

Kusuma SK, Maynard L, Wasielewski RC. "Reduction of the Learning Curve Associated with Hip Surface Replacement Arthroplasty With a Novel Plain Radiograph Templating Method." International Congress for Joint Reconstruction, 13th Annual Insall Scott Kelly Institute Sports Medicine, Total Knee and Hip Course. New York, USA, 2012.

Kusuma SK, Goodman Z, Sheridan K, Wasielewski RC. "The Effects of Acetabular Reaming on Bone Loss and Component Coverage." American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, USA 2013.

Book Chapters:

Kusuma SK, Garino JP. "Total Hip Arthroplasty." in Beredjikian PK, and Garino JP. (Eds.) *Core Knowledge in Orthopaedics: Adult Reconstruction and Arthroplasty*, Mosby, Philadelphia, 2007:8;108-146.

Kusuma SK, Parekh SG, French PF. "Business and Practice Principles." in Chin, KR and Mehta S. (Eds.) *Orthopaedic Key Review Concepts*, Lippincott, Williams & Wilkins, Philadelphia, 2007:12;621-648.

Kusuma SK, Garino JP. "Adult Reconstruction." in Chin KR and Mehta S. (Eds.) *Orthopaedic Key Review Concepts*, Lippincott, Williams & Wilkins, Philadelphia, 2007:4;193-230.

Kusuma SK, Lonner J. "Section 5: The Knee." in Lotke PA et. al. (Eds.) *Orthopaedics for the Primary Care Physician*, Lippincott, Williams & Wilkins, Philadelphia, 2008: 5;99-122.

Wasielewski RC, **Kusuma SK**, Sheridan KS. "Total Knee Arthroplasty in Obese Patients." in Berry D et. al. (Eds.) *Advanced Reconstruction: Knee*, American Academy of Orthopaedic Surgeons, Rosemont, IL:2010:25-40.

Kusuma SK. "Surgical Anatomy of the Hip." in AAOS Comprehensive Orthopaedic Review. American Academy of Orthopaedic Surgeons, Rosemont, IL:2013(in press).

Alternative Media:

Kusuma SK. "Washington Fellow gets inside look at health policy making." *Bulletin of the American Academy of Orthopaedic Surgeons*, 52:4; 22-23, 2004.

Kusuma SK, Nunley RM, Mehta S, Genuario JW, Kennedy J. "Direct to Consumer Advertising: Improving patient education or simply increasing pharmaceutical profits?" *AAOS Now*, 1:10;26-28, 2007.

Kusuma SK, Nunley RN, Covey A, Genuario JW, Mehta SM. "Issues facing America: consumer-directed health care." *AAOS Now*, 2:4, 54-57, 2008.
Sohn DH, Kusuma SK, Murthi A. "Medical liability reform: An update." *AAOS Now*, 4:1, 54-57. 2010.

Kusuma SK. "Tourniquetless Primary Total Knee Arthroplasty." *Advances in Total Knee Arthroplasty*, Rush University Medical Center, Chicago, Illinois, 2011.

Research Projects
Publications:

Sienkowska MJ, Farrar JM, Zhang F, **Kusuma S**, Heiney PA, Kaszynski P. "Liquid crystalline behavior of tetraaryl derivatives of benzo[c]cinnoline, tetraazapyrene, phenanthrene, and pyrene: the effect of heteroatom and substitution pattern on phase stability." *J. Mater. Chem.*, 2007, 17, 1399-1412.

Sharan AD, Genuario J, Mehta S, **Kusuma S**, Ranawat A, Nunley R, Weinstein SL. "Current Issues in Health Policy: A Primer for the Orthopaedic Surgeon." *J Am Acad Orthop Surg*. 2007 Feb;15(2):76-86.

Kusuma SK, Mehta S, Sirkin MS, Yates AJ, Miclau T, Templeton KJ, Friedlaender GE. "Measuring the attitudes and impact of the 80-hour work week rules on orthopaedic surgery residents." *J Bone Joint Surg Am*. 2007 Mar;89(3):679-85.

Reddy S, **Kusuma S**, Hosalkar H, Keenan MA. "Surgery Can Reduce the Nonoperative Care Associated with an Equinovarus Foot Deformity." *Clin Orthop Relat Res*. 2008 Jul;466(7):1683-7.

Kusuma SK, Puri N, Lotke PA. "Lateral retinacular release during primary total knee arthroplasty: effect on outcomes and complications." *J Arthroplasty*. 2009 Apr;24(3):383-90.

Auerbach JD, Hosalkar HS, **Kusuma SK**, Wills BPD, Dormans JP, Drummond DS. "Spinal cord dimensions in children with Klippel-Feil syndrome: a controlled, blinded radiographic analysis with implications for neurologic outcomes." *Spine*. 2008 May 20;33(12):1366-1371.

Berger RA, **Kusuma SK**, Sanders S, Thill ES, Sporer SS, "The feasibility and perioperative complications of outpatient knee arthroplasty." *Clin Orthop Relat Res*. 2009 Jun;467(6):1443-9.

Kusuma SK, Eiszner JR, Adams SB, Chin KR. "Measuring publication rates of randomized controlled trials and meta-analyses among medical and surgical subspecialties: how does orthopaedic surgery compare?" *University of Pennsylvania Orthopaedic Journal*. 2009, Vol. 19.

Kusuma SK, Wasielewski RC. Gap balancing through small incisions: competing goals. *Orthopedics*. 2010 Sep 7;33(9):654.

Kusuma SK, Della Valle CD, Sporer S, Ward J, Jacofsky M. "Trends of perioperative serologies in two-stage treatment of septic total knee arthroplasty." *Clin Orthop Relat Res*. 2010 Apr;469(4):1002-8.

Ruane J, **Kusuma S**, Strakowski J. "Successful Nonoperative Treatment of Persistently Painful Knees Following Total Knee Arthroplasty—A Case Series." *Practical Pain Management*. 2012 Jan/Feb.

Kusuma SK, Willis L, Sheridan K, Wasielewski RC. Use of bovine thrombin to reduce blood loss in primary total knee arthroplasty: A controlled randomized trial. – Accepted for Publication – *The Journal of Arthroplasty*.

Rohmiller MT, **Kusuma SK**, Blanchard GM, Billheimer D, Edwards JR, McAndrew MP, Sciadini MF, Johnson KD. "Management of Open Fractures of the Lower Extremity: Does Timing of Operative Treatment and Primary Wound Closure Really Matter?" – Submitted – *Injury*.

Kusuma SK, Buvanendran A, Della Valle CJ, Moric M, Tuman KJ, Lubenow TR. "Use of Long-Term, Tunneled Epidural Catheter for Managing the Stiff Total Knee Arthroplasty." Submitted – *Journal of Arthroplasty*.

Wieser ES, Kusuma SK, Parekh D, Trussler L, Mencio GA. "Myelomeningocele kyphectomy: review of the effects of cordotomy on bladder function." – Prepared for submission, Journal of Pediatric Orthopaedics.

Scientific Meetings
and Instructional

Courses:

- AAOS Research Capitol Hill Days, February 11-12, 2004, Washington D.C.
- AAOS Annual Meeting, March 10-14, 2004, San Francisco, California
- National Orthopaedic Leadership Conference, April 27-30, 2004, Washington, D.C.
- 1st Annual Business of Orthopaedics Course, September 18, 2004, Philadelphia, Pennsylvania
- National Arthritis and Musculoskeletal Skin Diseases Advisory Council, September 21, 2004, Washington, D.C.
- AO/ASIF Basic Principles and Techniques of Operative Fracture Management Course for Residents, Dallas, Texas January 20-23, 2005
- AAOS Annual Meeting, February 23-27, 2005, Washington, D.C.
- AAOS Research Capitol Hill Days, March 16-17, 2005, Washington, D.C.
- Advanced Surgical Approaches in Internal Fixation – January 27-29, 2006, Memphis, TN
- AO/ASIF Advanced Principles and Techniques of Operative Fracture Management Course for Residents, Toronto, Canada, November 16-19, 2006
- Birmingham Hip Resurfacing Cadaver Training Course – March 18-19, 2009, Newcastle, United Kingdom

Work and Consulting

Experience:

- | | |
|--------------|--|
| 2000-2001 | Parker, Lawrence, Cantrell and Dean – Attorneys at Law; Research Intern, Nashville, Tennessee |
| 2006 | Orthopaedics Overseas Volunteer – Bedford Orthopaedic Centre, Mithatha, South Africa |
| 2008-present | Healthcare Council Member and Consultant – Gerson Lehrman Group, Austin, Texas |
| 2008-present | Healthcare Council Member and Consultant – Guidepoint Global, New York, New York |
| 2009-present | Consultant, Graftys SA, Aix-en-Provence, France |
| 2009-present | Manuscript reviewer, Clinical Orthopaedics and Related Research |
| 2009-present | Lecturer – Ohio University Osteopathic School of Medicine, Athens, Ohio |
| 2009-present | Speakers Bureau, Genzyme Biosurgery, Boston, Massachusetts |
| 2010-present | IDE Investigator – Multicenter Trial of the Continuum™ Ceramic Bearing System in Total Hip Arthroplasty – Zimmer, Inc. – Warsaw, Indiana |
| 2010-present | Clinical Instructor – Doctors Hospital Orthopaedic Surgery Residency Program, Columbus, Ohio |
| 2011-present | Speakers Bureau – PriCara Pharmaceuticals, Raritan, New Jersey |
| 2011-present | Healthcare Council Member and Consultant – DeMatteo Monness, New York, New York |
| 2011-present | Instructor and Consultant – Medtronic Advanced Energy, Portsmouth, New Hampshire |
| 2011-present | Smith & Nephew Journey BCS II Principal Investigator – Smith & Nephew, Memphis, Tennessee |
| 2011-present | Smith & Nephew Birmingham Hip Resurfacing Visiting Surgeon Program Site Leader |
| 2011-present | DePuy Alternative Bearing Hip Systems Clinical Investigator |
| 2012-present | Consultant and Surgeon Educator – Zimmer Holdings |